BLUE-MASTER®
by celesa

CUTTING TECHNOLOGIES



CATALOGO 2025



OLTRE 11.000 M2 DI SUPERFICIE INDUSTRIALE DEDICATI ALLA PRODUZIONE DI UTENSILE DA TAGLIO DIVISO IN 2 CENTRI DI PRODUZIONE



L'ULTIMA TECNOLOGIA
PRODUTTIVA DISPONIBILE PER
LA FABBRICAZIONE PIÙ EFFICACE

CUTTING TECHNOLOGIES





TECNOLOGIA DI STOCCAGGIO E
PREPARAZIONE DELL'ORDINE
ADATTI ALL'IMMEDIATITÀ DELLE
NOSTRE ESIGENZE DEL CLIENTE



LA PIÙ RECENTE TECNOLOGIA DI ROBOTIZZAZIONE

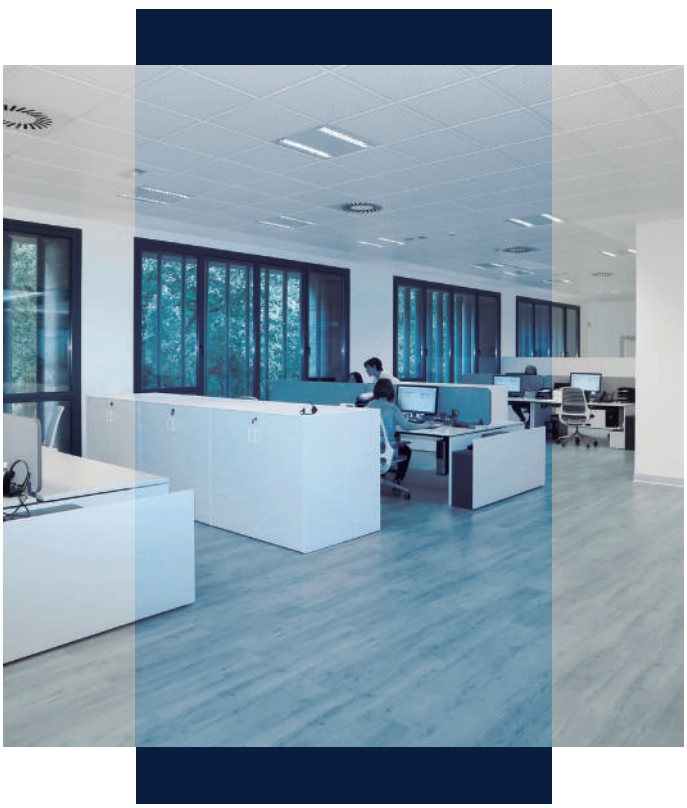
AMPLIANDO LA CAPACITÀ DI SERVIZIO
CHE SUPERA GIÀ LE 30.000 LINEE
DI ORDINI GIORNALIERE

SERVIZIO INTERROTTO

DALLE 8:00-19:00 SERVIZIO CLIENTI

LA MIGLIORE ATTENZIONE, AGILE, VELOCE E PRECISA.





PIÙ DI 90.000 RIFERIMENTI A

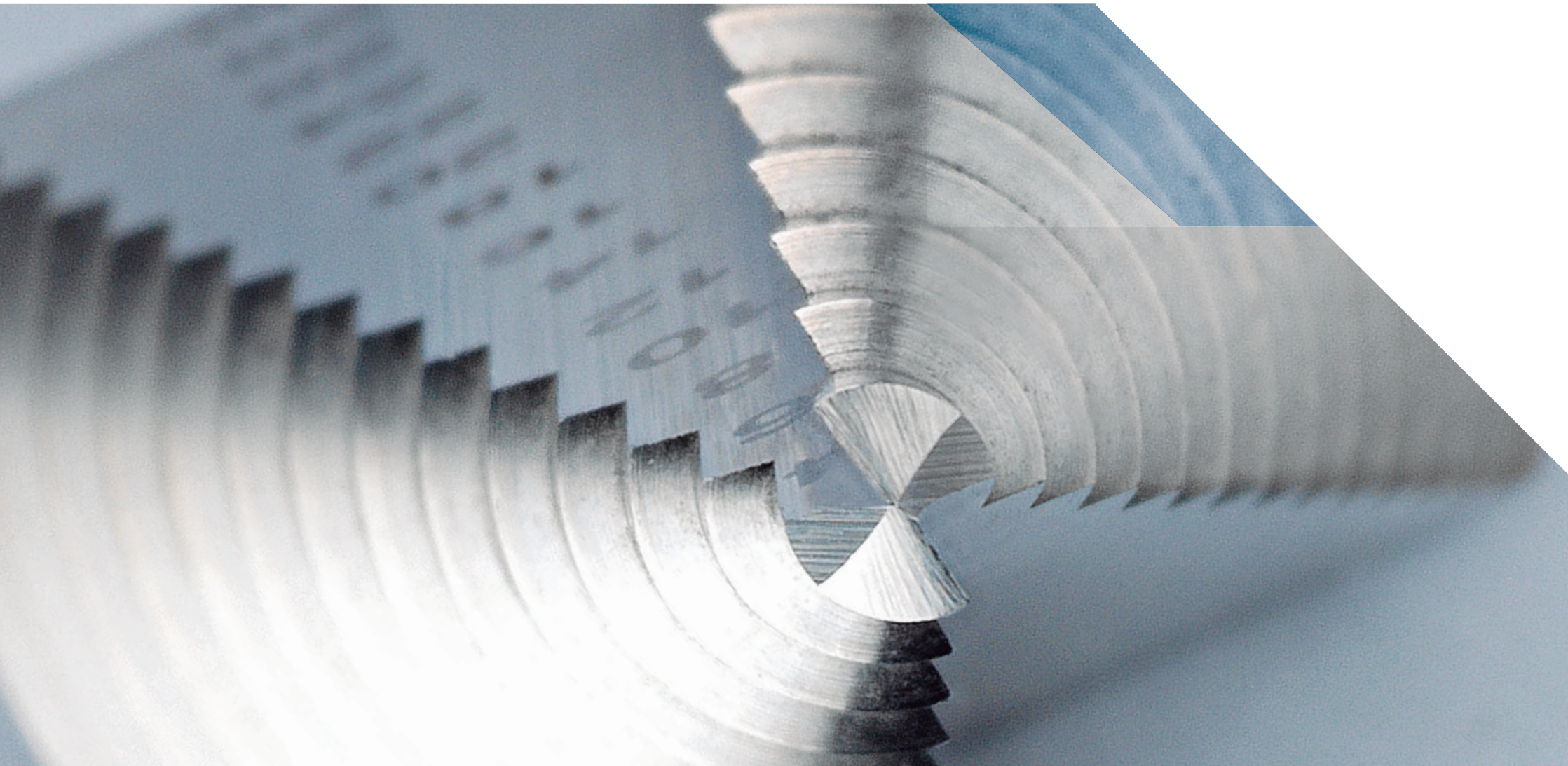
MAGAZZINO DISPONIBILI PER

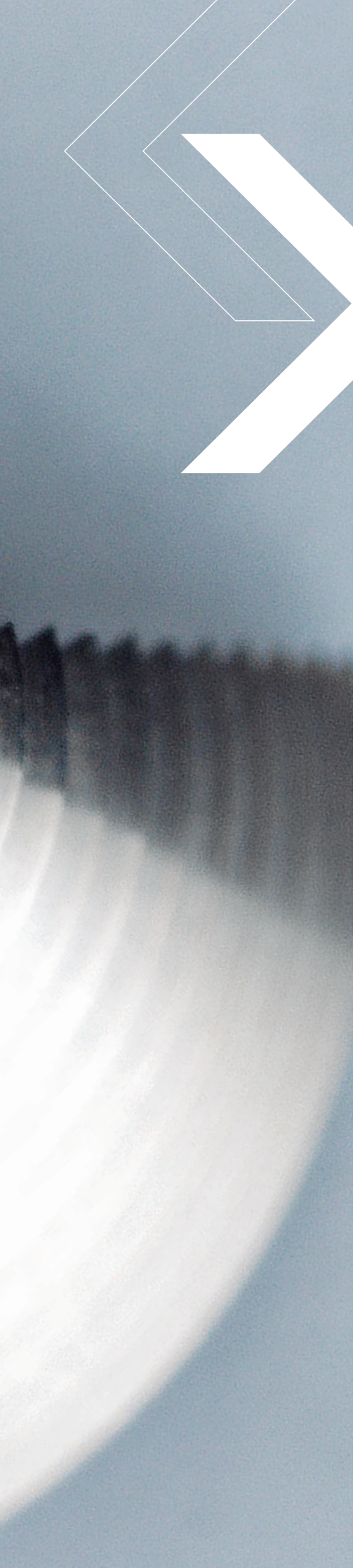
CONSEGNA IMMEDIATA



SERVIZIO

INDICE PER FAMIGLIE



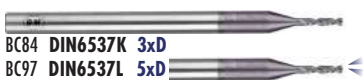


PUNTE PER METALLO 041
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INDICE



PUNTE ELICOIDALI CILINDRICHE PER METALLO

BC2			HSS	DIN 338			118°	30° "N"	OX	70 Kg/mm²		42
BC82			HSS	DIN 338			118°	30° "N"	BRILLANTE	70 Kg/mm²		42
BC02			HSS-G	DIN 338			118°	30° "N"	ORO OX	Plus		42
BC9			HSS	DIN 338			118°	30° "N"	OX	12,70		42
BC5			HSSCo 5%	DIN 338			135°	30° "N"	ORO	120 Kg/mm²		42
BC99			HSSCo 5%	DIN 338			135°	30° "N"	ORO	12,70		42
BC58			HSSCo 8%	DIN 338			135°	30° "N"	ORO	120 Kg/mm²		42
BC16			HSS	DIN 338			135°	40° "W"	BRILLANTE	Al		42
BC66			HSS	DIN 338			118°	15° "H"	BRILLANTE	OTTONE		42
BC15			HSS	DIN 338			118°	30° "N"	OX			42
BC18			HSS	DIN 338			118°	30° "N"	TiN	PRODUZIONE		42
BTX		TURBO 	HSSCo 5%	DIN 338		Ø ≥ 3	135°	38° "S"	ORO	120 Kg/mm²		43
TTX		TURBO 	HSS	DIN 338		Ø ≥ 3	135°	38° "S"	TiAlSiN	80 Kg/mm²		43
BC51			HSSCo 5%	DIN 338			135°	30° "N"	TiAlN	ALTA PRODUZIONE		43
BC95			HSSCo 5%	DIN 338			130°	Ø ≥ 3	ORO OX	INOX		43
BC55			HSSCo 5%	DIN 338			135°	38° "S"	BRILLANTE	INOX		43
BC57			HSSCo 5%	DIN 338			135°	38° "S"	TiAlN	INOX		43
BC50			HSSCo 5%	DIN 338			118°	38° "N"	TiAlN	INOX Plus		43
BC7			PMD	DIN 338			118°	30° "N"	BRILLANTE	GHISA		43
BC98	 HARDOX 600		PMD	DIN 338			135°	30° "N"	BRILLANTE	70 HrC		43
BC42			MD	DIN 338			135°	35° "N"	BRILLANTE	ALTA PRODUZIONE		43
NEW BC84 BC97	 BC84 DIN6537K 3xD BC97 DIN6537L 5xD		MD	DIN 6537			135°	30° "N"	TiAlN	HARDOX 450		64
BC84 BC83	 3xD		MD	DIN 6537K			135°	30° "N"	TiAlN	HARDOX 450		65
BC97 BC89	 5xD		MD	DIN 6537L			135°	30° "N"	TiAlN	HARDOX 450		66

PUNTE ELICOIDALI CILINDRICHE PER METALLO

BC96			MD	DIN 6537L			140°	30° "N"	TiAlN	HARDOX 450	67
BXX NEW BXL NEW BXXL	  		MD	DIN 6537L			140°	30° "N"	TiAlN	HARDOX 450	68 69
BC30			HSS				118°	30° "N"	Ø 2,30mm		70
BC79			MDI				118°	30° "N"	Ø 3,17mm	ALTA PRODUZIONE	70
BC85			MD				140°	15° "H"	TiAlN	HARDOX 600	71
TK02			HSS	DIN 338			Ø≥4	Ø≥2,5mm	Al	Cu - Ni - Zn	72
TK05			HSSCo 5%	DIN 338			Ø≥5	Ø≥3mm	INOX	GHISA	73
NEW AV40BM3			HSS	BRILLANTE TiN							74
NEW MTKM			HSSCo 5%	BRILLANTE	M	TOL 6H	1/4"				74
BCC06			MD				30° 30°	0°			75
BACH			Cu-Be				118°	30° "N"		Ex	75
BTT33			HSSCo 5%	DIN 338			135°	30° "N"	TOL H8	ALTA PRODUZIONE	76
BHA			HSSCo 8%	DIN 338			135°		HARDTOP	HARDOX 400/450 600	77
BC4			HSS	DIN 340			118°	30° "N"	OX	70 Kg/mm²	78
BC47			HSSCo 5%	DIN 340			135°	30° "N"	ORO	120 Kg/mm²	78
BC40			HSS	DIN 340			118°	30° "N"	TiN	PRODUZIONE	78
BC44			HSSCo 5%	DIN 340			135°	38° "S"	BRILLANTE	INOX	78
BC48			HSSCo 5%	DIN 340			135°	38° "S"	TiAlN	INOX	78
BC78			PMD	DIN 340			118°	30° "N"	BRILLANTE	GHISA	78
BC3			HSS	DIN 1897			135°	30° "N"	OX	70 Kg/mm²	78
BC31			HSSCo 5%	DIN 1897			135°	30° "N"	ORO	120 Kg/mm²	78
BC37			HSS	DIN 1897			135°	30° "N"	TiN	PRODUZIONE	78
BC33			HSSCo 5%	DIN 1897			135°	38° "S"	BRILLANTE	INOX	78
BC35			HSSCo 5%	DIN 1897			118°	38° "N"	TiAlN	INOX Plus	78

PUNTE ELICOIDALI CILINDRICHE PER METALLO

BC77			PMD	DIN 1897			118°	30° "N"	BRILLANTE	GHISA	78
BC43			MD	DIN 1897			135°	35° "N"	BRILLANTE	ALTA PRODUZIONE	78
BC17			HSS	DIN 1897			135°	30° "N"	OX	70 Kg/mm²	78
BC38			HSSCo 5%	DIN 1897			135°	30° "N"	ORO	120 Kg/mm²	78
BC8			HSS	DIN 1869 I/II/III			118°	30° "N"	OX	70 Kg/mm²	83
BC88			HSSCo 5%	DIN 1869 I/II/III			135°	38° "S"	BRILLANTE	INOX	83
BC08			HSS				135°	30° "N"			84
BC08PMD			PMD				85°	20° "N"			84

PUNTE A CENTRARE

BC10 BC10Co BC65 BC10I BC10MD	 BC10 HSS · BC10Co HSSCo 5% · BC65 HSS+TiN · BC10I HSS A sinistra · BC10MD Metallo duro					DIN 333A	60°	60°		85
NEW BCW10			HSS			DIN 333W	60°	60°		85
BC64 BC68	 BC64 HSS · BC68 HSS+TiN		HSS TiN			DIN 333A	60°	60°		86
BC62 BC62MDI	 BC62 HSS · BC62MDI Metallo duro		HSS	MD	DIN 333R		60°	RADIAL	BRILLANTE	70 Kg/mm²	86
BC63			HSS	DIN 333B			60° 120°	60° 120°	BRILLANTE	70 Kg/mm²	86

PUNTE A CENTRARE CILINDRICHE

BC75 BC75I BC76 NEW BH75	 BC75 90° · BC75I 90° · BC76 120° · NEW BH75 142°		HSSCo 5%	DIN 1412A	TOL h6	90° 120° 142°	TiAlN	Machine CNC		87
DP75			HSSCo 5%	DIN 1412A	TOL h6	90°	TiAlN	Machine CNC		87
BC92 BC93	 BC92 90° · BC93 120°		MD	DIN 1412A	TOL h6	90° 120°	DIN 6535HB			88
BN75			HSSCo 5%	DIN 1412A	TOL h6	90°	120 Kg/mm²	Ti INC	INOX Ni	PVC	88
BL75			HSSCo 5%	DIN 1412A	TOL h6			90°	TiAlN		88
BP11			HSSCo 5%	DIN 1412A	TOL h6			90°		120 Kg/mm²	88

PUNTE PER RIMOZIONE DEI PUNTI DI SALDATURA - MACCHINE PNEUMATIQUE

BC70 BC71	 BC70 HSSCo 8% · BC71 HSSCo 8%+TiN · BC70MD Metallo duro		HSSCo 8%	TiN	MD	TiAlN		89

PUNTE PER RIMOZIONE DEI PUNTI DI SALDATURA - MACCHINE ELETROPORTATILI

BC60 BC69	 BC60 HSSCo 5% · B69 HSSCo 5%	HSSCo 5%	TiN			89

PUNTE PER RIMOZIONE DEI PUNTI DI SALDATURA

EBC70		INSIEME DA TAGLIO: ALBERO, CORONA E PUNZONE		89

PUNTE-FRESE

BC80 **BC81**	 BC80 **HSS** BC81 **HSS+TiN**	**HSS**			118°	BRILLANTE TiN	70 Kg/mm²		90

PUNTA-FRESA IN METALLO DURO

BC91			**MD**	Machine CNC	90°	50 Kg/mm²	Ti INC	INOX Ni	PVC	90

FLUO-PUNTA E FLUO-GRASSA

FLUOB **FLUOBP**		Ref. FLUOB Con collare SEMPLICE 	Ref. FLUOBP Con collare TAGLIENTE 	91

PUNTE A DOPPIO DIAMETRO CILINDRICHE E CONICHE

BC26 BC24 BC28		**HSS**		DIN 8376	DIN 8374	DIN 8378	90º	180º	CILINDRICO	92
BC27 BC25 BC29		**HSS**		DIN 8377	DIN 8375	DIN 8379	90º	180º	CONICO	92
BC36		**HSSCo 5%**					90º		CILINDRICO	93
BCMD36		**MD**					90º	TiAlN	CILINDRICO	93
BC74 **BC34**	 BC74 **180º** BC34 **90º**	**HSSCo 5%**					180º	90º	CILINDRICO	93

PUNTE ELICOIDALI CONICHE PER METALLO

BC11		**HSS**		DIN 345		118°	OX	70 Kg/mm²		94
BC22		**HSSCo 5%**		DIN 345		135°	OX	120 Kg/mm²		94
BC32		**HSSCo 5%**		DIN 345		135°	OX	INOX		94
BC21		**HSS**		DIN 345		118°	TiN	PRODUZIONE		94
BC13		**PMD**		DIN 345		118°	BRILLANTE	GHISA		94
BC73		**HSSCo 8%**				135°	OX	HARDOX 450		97
BC22..FT	 	**HSSCo 5%**	DIN 1412D	DIN 345		130°	TiN	HARDOX 450		97
BC12		**HSS**		DIN 341		118°	OX	70 Kg/mm²		98
BC56		**HSSCo 5%**		DIN 341		135°	OX	120 Kg/mm²		98
BC14		**HSS**		DIN 1870 I/II		118°	OX	70 Kg/mm²		99
BC41		**HSSCo 5%**		DIN 1870 I/II		135°	BRILLANTE	120 Kg/mm²		99
BC87	 	**HSS**		DIN 341		170°	OX			100

SET, VALIGETTE ED ARMADI DI PUNTE PER METALLO



DIN 338	DIN 340	DIN 1897			TiN	BRILLANTE	101
HSS	HSS-G	HSSCo 5%	HSSCo 8%	PMD	CV		

DIN 338	HSS	HSS-G	HSSCo 5%	OX	Plus	TiN	108

FLUIDO DA TAGLIO



AC	CUT MAGIC EXTRA	APPLICAZIONE MECCANICA PER TUTTI I TIPI DI MATERIALI	114
ACXT	CUT MAGIC XTHICK	ULTRA VISCOSO, PER MATERIALI ESTREMAMENTE DURI FINO A 45 HRc	114
ACAL	CUT MAGIC ALUMINIO	ESCLUSIVO PER GHISA DI ALLUMINIO E MAGNESIO	115
ACF	CUT MAGIC FOAMY	IN SCHIUMA. MASSIMA ADERENZA AGLI UTENSILI! PER TUTTI I TIPI DI MATERIALI	115
AST5000	OLIO SEMISINTETICO SOLUBILE	OLIO SEMISINTETICO SOLUBILE PER LA REFRIGERAZIONE OTTIMALE IN TUTTI I TIPI DI PROCESSI MECCANICI	115
ACPU	CUT MAGIC PASTY	IN PASTA, APPLICABILE A QUALSIASI UTENSILE CON LA MASSIMA ADERENZA! PER TUTTI I TIPI DI MATERIALI	116
ACPS	CUT MAGIC TWISTY	APPROFITTA DELLA BARRA LUBRIFICANTE PER IL TAGLIO CON LAMA	116
EPW0400 PW0400	SPRAY ANTI-PROIEZIONI	PER LA PROTEZIONE DELL`ATTREZZATURA INDUSTRIALE PROGETTATO PER PROTEGGERE DALLE PROIEZIONI L'ATTREZZATURA UTILIZZATA DURANTE IL PROCESSO DI SALDATURA	116

MANDRINI INDUSTRIALI AUTOSERRANTI E CONICI PER TRAPANI A COLONNA O CNC



DC1 DC3	<0,05 <0,20	ALTA PRECISIONE INDUSTRIALE LEGGERO	118
DC10 DC11 DC20	<0,05 <0,12	ALTA PRECISIONE INDUSTRIALE	119

MANDRINI PROFESSIONALI AUTOMATICI



DC4 DC5 DC13	LOCK <950W <1050W	CORPO IN PLASTICA CORPO IN METALLO	120
DC6 DC7		INDUSTRIALE LEGGERO	121

MANDRINO CON PROLUNGA FLESSIBILE



DC15-001
DC15-002

MANDRINO AD ANGOLO



MINI MANDRINI A MACCHINA



P29 — 122

SUPPORTO A COLONNA PROFESSIONALE PER TRAPANO




STE99	43/38 mm	60 mm	510 mm		123

ACCESSORI PER MANDRINI






DC DC-01	SDS Plus	1/4"	124

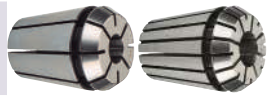
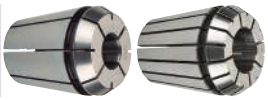
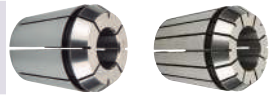
ACCESSORI PER PUNTE E MANDRINI

CR		DIN 2185	CONI RIDUTTORI	CA		DIN 2187	CONI AUMENTATORI 124
CA		DIN 2187	CONI RIDUTTORI ESTENSIVI	CA		DIN 2187	CONI ESTENSIVI 124
CM		DIN 238	ELEMENTI DI FISSAGGIO CONICI PER MANDRINI	CMEXT		B16 B18	ESTRATTORE PER ELEMENTI DI FISSAGGIO DI MANDRINI CON CONO STANDARDIZZATO B16 E B18 125
CE		DIN 317	ESTRATTORE CONO MORSE	CMR		DIN 228	ELEMENTI DI FISSAGGIO CONICI PER MANDRINI FILETTATI 125
CPC CPC..MD		60º	CONTROPUNTE FISSE PER TORNI	PGC		60º	CONTROPUNTE ROTANTI PER TORNI 125

PORTAMASCHI E TESTINE

TC10		PORTAMASCHI	TC15 TC16		TESTINA SENZA FRIZIONE TESTINA CON FRIZIONE 126

PINZE DI PRECISIONE TIPO ER

ER8		D2: 8,5 α: 8º L1: 13,5 β: 30º	DIN 6499-B	ER11		D2: 11,5 α: 8º L1: 18 β: 30º	DIN 6499-B 128
ER16		D2: 17 α: 8º L1: 27,5 β: 30º	DIN 6499-B	ER25		D2: 26 α: 8º L1: 34 β: 30º	DIN 6499-B 128
ER32		D2: 33 α: 8º L1: 40 β: 30º	DIN 6499-B	ER40		D2: 41 α: 8º L1: 46 β: 30º	DIN 6499-B 129

AFFILATRICI PER PUNTE



AFB10		118°	Ø 3-13				130
	HSS	HSSCo	MD	TiN	PMD		
AFB1		118°	135°	Ø 2,5-19	Ø 2,5-13		131
AFB2	HSS	HSSCo	MD	TiN	PMD		131
AFB3	HSS	HSSCo	MD			118°	131
		Ø 2,5-13	TiN	PMD			

ALESATORI A MANO






EM1	HSS	TOL H7	DIN 206B		8°	134
EMA	HSS	TOL K7	NFE 74112		0°	135
ECM	HSS		DIN 204D			135

ALESATORI A MACCHINA

EMNPT		HSS	1:16	NPT				135
EM2		HSS	TOL H9	DIN 9B	2% 1:50	SPINE CONICHE DIN 1		136

ALESATORI A MACCHINA

EM29		HSSCo	TOL H9	DIN 2179E	2% 1:50	SPINE CONICHE DIN 1		136
EM3		HSSCo	TOL H7	DIN 212B	8°			137
EM44 EM33		HSSCo	TOL H7	DIN 212L/XL	8°			138
EM35		MD	TOL H7	DIN 8093B	8°			138
EM10		HSSCo	TOL H7	DIN 212E	GAMMON			138
EM7 EM9		HSSCo	TOL H7	DIN 208B	10°	DIN 208C	38° GAMMON	139
EM41		HSSCo	TOL H7	DIN 208B/L				140
EM8		HSS	TOL H7	DIN 311		PER CALDAIE		140
EM42		HSSCo	TOL H7	DIN 208B/XL				140
BC45	  3Z	MD	TOL H8	DIN 1897		150°	30° "N" 		141
EM22 EM23	  3Z	HSS	TOL 343	TOL 344		PER ALLARGARE FORI			142
EM17 EM18		HSSCo	TOL H7	TOL 219B	10°	TOL 219C	38° GAMMON		143
EM19				TOL 217					143
EM14	 5Z	HSS			10% 1:10	25° 			144

ALESATORI CONICI PER STAMPI

EM30 EM31 EM32		HSSCo	5% 1:20	8% 2:25	10% 1:10	45°	STAMPI		144

ALESATORI REGOLABILI

EM4G EM4-6C EM4-6T		HSS	ALESATORE REGOLABILE CON GUIDA: ALESATORE + LAME + VITI	145
EM6 EM4-6C EM4-6T		HSS	ALESATORE REGOLABILE RINFORZATO: ALESATORE + LAME + VITI	145

PUNTE A GRANDINO

AV40		HSS	BRILLANTE TiN		AVC40		HSSCo	ORO TiN	INOX	148 149
NEW AV40BMSDS		HSS	BRILLANTE TiN	SDS Plus	AV42		HSS	BRILLANTE TiN		149 150

PUNTE A GRANDINO

NEW AV40BM7		HSS	TiAlN	10 mm	NEW AV40BM3		HSS	BRILLANTE TiN	2 mm	150 151
AV41		HSS	BRILLANTE TiN	1/4"	AV41C		HSS	BRILLANTE TiN		151
AV45		HSS	BRILLANTE TiN		AV43		HSS	BRILLANTE TiN	3Z	152
AV4		HSS			AV30 AVC30		HSS HSSCo	BRILLANTE TiN	118°	153
AG		HSS	≤ 5 mm		AV31		HSS	BRILLANTE TiN		153

SVASATORI A 3 CANALI

AV6		HSS	USO GENERALE	90º DIN335C	AV16		HSS TiN	USO GENERALE	90º DIN335C	154
AV37		HSS TiAlN	USO GENERALE	90º DIN335C	AV7		HSSCo	USO GENERALE INOX	90º DIN335C	154
AV38		HSS TiAlSiN	INOX Superplus	90º DIN335C	AV15		HSS		90º DIN335C	154

SVASATORI A 3/5 CANALI DI ULTIMA GENERAZIONE

NEW AV66	 3Z	HSSCo		90º DIN335C	NEW AV67	 3Z	HSSCo TiAlN		90º DIN335C	155
NEW AV99	 3Z	HSSCo TiAlN	INOX Superplus	90º DIN335C	NEW AV55	 5Z	HSSCo	HARDOX 500	90º DIN335C	155
NEW AV6MD	 3Z	MD	ALTA PRODUZIONE	90º DIN335C	NEW AV66MD	 3Z	MD		90º DIN335C	155
NEW AV55MD	 5Z	MD	HARDOX 500	90º DIN335C						155

SVASATORI A 3/5 CANALI CODOLO CILINDRICO

AV8	 3Z	HSS	DIN 334C	60°	AV9	 3Z	HSS		75°	156
AV10	 3Z	HSS		120°	AV12	 5Z	HSS	DIN 334A	60°	156
AV11	 5Z	HSS	DIN 335A	90°	AV13	 5Z	HSS	DIN 347A	120°	156

SVASATORI PER SVASARE CON FORO

AV1		HSS		90°	AV1T		HSS TiN		90°	157
AV2		HSSCo		90°	AV2T		HSSCo TiN		90°	157
AV1-60		HSS		60°	FC		MD	TiAlN	90°	157

SVASATORI A 3 CANALI E MULTITAGLIO CODOLO CONICO

AV17	 3Z	HSS	DIN 335D	90°	AV17MD	 3Z	MD	DIN 335D	90°	158
AV23		HSS	DIN 335B	60°	AV18		HSS	DIN 335B	90°	158
AV24		HSS	DIN 347B	120°						158

SVASATORI A 1 CANALE

AV27		1Z	HSS	CILINDRICO	90°	AV29		1Z	HSS	CILINDRICO	60°	159
AV34		1Z	HSS	CONICO	90°	AV28		1Z	HSS	CONICO	60°	159

SVASATORI ESTERNI

AVX		3Z	HSS		90°	AVX-60		3Z	HSS		60°	160
AVEXT			HSS	1/4"	60°	NEW AVMDEXT			MD	60°	INOX	160

SVASATORI PER SEDI DI VITI "ALLEN"

AV2M AV2MM AV2GM		HSS DIN 373	CILINDRICO	AV3		HSS	DIN 1866		161
AV5M AV5MM AV5GM		HSS DIN 375	CONICO						162

SVASATORI CON ELEMENTI INTERCAMBIABILI PER SEDI DI VITI ALLEN E CONICI



	GUIDA	MANDRINO	MANDRINO	PLACCHETTA INTERCAMBIABILE	SVASATORE	PUNTA	ADATTATORE	PLACCHETTA DI RICAMBIO	
SERIE A/B/C		HSS	MD	PMD	HSS 90°	HSS		MD	163

SET METALLICI DI SVASATORI



167

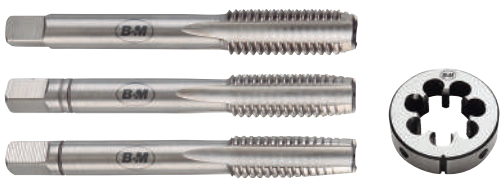
INSIEME DI UTENSILI DA SVASATURA DI PRECISIONE IN BLISTER

170

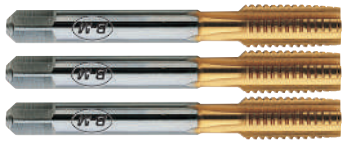
B	JRB1	C	JRB2	D	JRB3	E	JRB4	F	



SERIE DI MASCHI E FILIERE PER FILETTARE A MANO

MO C5		HSS	M/MF 174	UNC 176	UNF 176	BSP GAS 177	
			UNF 3B 177	BSW 178	BSF 178	NPTF 179	
			NPT 179	PG 180	NPSF 180	NPS M 180	
			BSPT 181	BA 181	UNx8 182	UNEF 182	
MOMD		1100 N/mm²	HSSCo 5%	OX	M		183
MOC		1400 N/mm²	HSS PM	TiAlSiN	M		183

SERIE DI MASCHI E FILIERE PER FILETTARE A MANO

M0AL			Al	HSS	BRILLANTE					183
M0T C5T			INOX	HSS	TiN					184
M0X C5X			INOX	HSSCo	OX					184
C5HM C5HG C5HNC C5HW C5HNF			HSS	M	UNC	UNF	BSP (GAS)	BSW		185
M0I C5I				M	UNC	UNF	BSP (GAS)	BSW		186
M03I M03			M MF	HSS	 M03I	HSS	 M03I			187

ACCESSORI PER UTENSILI A FILETTARE

GAM		M	GAMW			188
CGC5		M3-M12	AL		DIN 377  DIN 10	188
GAPRO		150 kg/mm2	GA			189
VA		DIN 225  5	VA		DIN 225  3	189
TC			TL			190

ESPOSITORE DI METACRILATO PER GIRAMASCHI E PORTAFILIERE 190

ASSORTIMENTI DI MASCHI E FILIERE IN VALIGETTE E ASTUCCI 191

ESTRATTORI DI MASCHI ROTTI 203



MASCHI PER FILETTARE A MACCHINA PER APPLICAZIONI GENERALI

M1D M1R		HSSCo 5% DIN 371 374 376	FORMA C	M/MF 204	UNC 208	UNF 209	BSP GAS 210	BSF 210	BSW 211	UNJC 212	UNJF 212
M2D M2R M2DX			FORMA B	M/MF 204	UNC 208	UNF 209	BSP GAS 210	INOX 210	BSW 211		
M3D M3R			 15°	M/MF 204	BSP GAS 210	BSW 211					
M4D M4R M4DX			 35°	M/MF 204	UNC 208	UNF 209	BSP GAS 210	INOX 210	BSW 211	BSW 211	
M1D		HSSCo 5%	FORMA C	BSPP 213	NPS M 213	NPSF 214	MF 214	PG 214			

MASCHI PER FILETTARE A MACCHINA PER APPLICAZIONI GENERALI

M1D		HSSCo 5%	FORMA B		BSPT 213	NPT 213	NPTF 214				
M1D		HSSCo 5%			FORMA C		UNx8				215
M2D M4D		HSSCo 5%	DIN 374	TOL 2B	FORMA B	35°	UNEF				215
M1RI M1DI		HSSCo 5%			FORMA C		M MF				215

MASCHI PER FILETTARE A MACCHINA METRICA ISO 529

M1RISO M1DISO		HSSCo 5%	ISO 529	TOL 6H	FORMA C		M MF				216
M2RISO M2DISO		HSSCo 5%	ISO 529	TOL 6H	FORMA B		M MF				216
M4RISO M4DISO		HSSCo 5%	ISO 529	TOL 6H	35°		M MF				216
M5RISO M5DISO		HSSCo 5%	ISO 529	TOL 6H	DENTI ALTERNATI	Al	M MF				216

MASCHI PER FILETTARE A MACCHINA CORTI DIN 352

M03		HSS	DIN 352	TOL 6H			M MF				217
M02AT		HSS	DIN 352	TOL 6H	ALTEZZA FINITA		M MF				217
M03X		HSS	DIN 352	TOL 6H	INOX		M MF				217
M02DIN		HSS	DIN 352	TOL 6H	FORMA B		M MF				217
M04DIN		HSS	DIN 352	TOL 6H	35°		M MF				217

MASCHI PER FILETTARE A MACCHINA PER APPLICAZIONI SPECIALI

M2DP/RP M4DP/RP		Plus	HSS PM	BRILLANTE	DIN 376/371	TOL 6H	FORMA B	35°	Vc 14 m/min		218
M2DT/RT M4DT/RT		Plus	HSSCo 5%	TiN	DIN 376/371	TOL 6H	FORMA B	35°	Vc 16 m/min		218
M2DHL/RHL M4DHL/RHL		Plus	HSS PM	HARD LUBE	DIN 376/371	TOL 6H	FORMA B	35°	Vc 17 m/min		218
M2RSP/DSP M4RSP/DSP		Super Plus	HSS V3	ALTiN	DIN 376/371	TOL 6H	FORMA B	41°	Vc 20 m/min		218
C5P		Plus	HSS	BRILLANTE	DIN 22568	TOL 6g					218
M2DX/RX M4DX/RX		INOX	HSS PM	OX	DIN 376/371	TOL 6H	FORMA B	35°	Vc 6 m/min		219
M2DXT/RXT M4DXT/RXT		INOX	HSSCo 5%	TiN	DIN 376/371	TOL 6H	FORMA B	35°	Vc 10 m/min		219
M2DXHL/RXHL M4DXHL/RXHL		INOX	HSS PM	HARD LUBE	DIN 376/371	TOL 6H	FORMA B	35°	Vc 12 m/min		219

MASCHI PER FILETTARE A MACCHINA PER APPLICAZIONI SPECIALI

M2RDU/DDU M4RDU/DDU		M	HSS V3	TiCN	DIN 376/371	TOL 6H	FORMA B	41°	Vc 15 m/min	220
M2RNI/DNI M3RNI/DNI		M	HSS PM	BRILLANTE	DIN 376/371	TOL 6H	FORMA B	15°	Vc 6 m/min	220
M2RTIT/DTIT M3RTIT/DTIT		M	HSS PM	OX	DIN 376/371	TOL 6H	FORMA B	15°	Vc 6 m/min	220
M2RSS/DSS M4RSS/DSS		Al	HSSCo 5%	OX	DIN 376/371	TOL 6H	FORMA B	35°	Vc 13 m/min	221
M2DMD/RMD M4DMD/RMD		1200 N/mm²	HSS V3	OX	DIN 376/371	TOL 6H	FORMA B	35°	Vc 7 m/min	222
M2DMDTX/RMDTX M4DMDTX/RMDTX		1200 N/mm²	HSS V3	TINALOX	DIN 376/371	TOL 6H	FORMA B	35°	Vc 9 m/min	222
M2DC/RC M3DC/RC		1400 N/mm²	HSSE	TiAlN	DIN 376/371	TOL 6H	FORMA B	15°	Vc 5 m/min	223
M2HDC/HRC M4HDC/HRC		1400 N/mm²	HSS PM	TINALOX	DIN 376/371	TOL 6H	FORMA B	35°	Vc 5 m/min	223
M1RCM		1400 N/mm²	HSS PM	TiCN	DIN 376/371	TOL 6H	FORMA C			223
M1RHMC		1400 N/mm²	MD	TiCN	DIN 376/371	TOL 6H	FORMA C		48-62 HRc	223
M2DD/RD M4DD/RD		QUALSIASI TERRENO	HSSCo 5%	TiN	DIN 376/371	TOL 6H	FORMA B	35°	Vc 13 m/min	224
M5D/R M6D/R		Al	HSSCo 5%	BRILLANTE	DIN 376/371	TOL 6H	DENTI ALTERNATI	2 CANALI	Vc 18 m/min	225
M1DFM M1RFM		GHISA	HSSCo 5%	OX	DIN 376/371	TOL 6H	FORMA C		Vc 11 m/min	225
MHM1D MHM1R		GHISA	MD	BRILLANTE	DIN 376/371	TOL 6H	FORMA C		Vc 21 m/min	225
M1DL M1RL		OTTONE	HSSCo 5%	BRILLANTE	DIN 376/371	TOL 6H	FORMA C		Vc 16 m/min	225
M1DLCRN M1RLCRN		OTTONE	HSSCo 5%	CrN	DIN 376/371	TOL 6H	FORMA C		Vc 19 m/min	225
M07D/M07R M07DT/M07RT		LAMINAZIONE	HSSCo 5%	OX TiN	DIN 376/371	TOL 6HX		800 N/mm²	Al GHISA	226
M07DCR/RCR M07DCCR/RCCR		LAMINAZIONE	HSSCo 5%	OX TiCN	DIN 376/371	TOL 6HX		800 N/mm²	Al GHISA	226
M09DCCR/RCCR M07DTX/RTX		LAMINAZIONE	HSSCo 5%	TiN TiCN	DIN 376/371	TOL 6HX		1.400 N/mm²	INOX	226

MASCHI PER FILETTARE A MACCHINA HSS-CO A TOLLERANZA SPECIALE E SOVRAMISURA

M2D/M2R M4D/M4R		HSSCo 5%	DIN 376/371	TOL 4H	TOL 6G	TOL 7G	TOL 6H(+0,1)	TOL 6H(+0,2)	FORMA B	35°	227

MASCHI PER FILETTARE A MACCHINA EXTRA LUNGHI

M2L-D M4L-D		HSSCo 5%	BRILLANTE	M	DIN 376/371	TOL 6H	FORMA B	35°	228

MASCHI PER FILETARE A MACCHINA PER DADI FILETTATURA METRICA DIN 357

MTU		HSSCo 5%	BRILLANTE	M	DIN 357	TOL 6H	FORMA A		229

MASCHI PER FILETARE A MACCHINA PER FILETTATURA TRAPEZOIDALE

MRTM		HSS	BRILLANTE		DIN 103	TOL 7H			229

PUNTA-MASCHIO

M8M		HSSCo 5%	BRILLANTE	M	DIN 376/371	TOL 6H			230

PUNTA SVASATORE MASCHIO STEP CUT

NEW **MTKM**		HSSCo 5%	BRILLANTE	M		TOL 6H		1/4"		230

STEPCUT

PLACCHETTE PER FILETTATURA INTERNA/ESTERNA

PRE / PPRE / PEXT		PLACCHETTE PROFILO INTERO/PARZIALE PER ESTERNI	231
PRI / PPRI / PINT		PLACCHETTE PROFILO INTERO/PARZIALE PER INTERNI	232

SET DI MASCHI PER FILETARE A MACCHINA ED ESPOSITORI



233

CALIBRI DI FILETTATURA, TAMPONI E ANELLI

CTP CTNP		M MF	BSP (GAS)	UNC	UNF	LISCIO	PASSA/NON PASSA PASSA NON PASSA			240
AP ANP		M MF	BSP (GAS)	UNC	UNF		PASSA NON PASSA			246

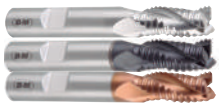
LAME DI COBALTO E METALLO DURO PER TORNIO

CT			HSSCo 10%	DIN 4964	TOL h14			256
CT...MD						P-20 K-10		258

FRESE FRONTALI CILNDRICHE SERIE CORTA E SERIE LUNGA

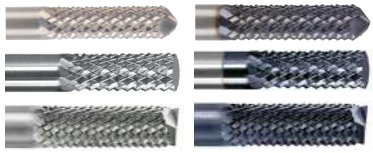
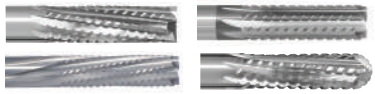
FF01			2Z	HSS	DIN 327	 30°	WELDON	BRILLANTE		 34 HRc	INOX Al		264
FF02 FF60 FT02			2Z	HSSCo 8%	DIN 327	 30°	WELDON	BRILLANTE TiAlN TiAlSiN		 34 HRc	INOX Al		264
FF92			2Z	HSSCo 8%	DIN 327	 30°	WELDON	BRILLANTE		 34 HRc	INOX Al		264
FP05 FT12		Premium Quality	2Z	ASP 60	DIN 327	 30°	WELDON	BRILLANTE TiAlSiN		 34 HRc	INOX Al		264
FP08 FT01		Premium Quality	2Z	ASP 60	DIN 327	 30°	WELDON	BRILLANTE TiAlSiN		 34 HRc	INOX Al		264
FFAL			2Z	HSSCo 8%	DIN 844	 45° W	WELDON	BRILLANTE			Al		264
FF06 FF67 FT06			2Z	HSSCo 8%	DIN 327/L	 30°	WELDON	BRILLANTE TiAlN TiAlSiN		 34 HRc	INOX Al		265
FF15 FP21		Premium Quality	2Z	HSSCo 8% ASP 60	DIN 327/L	 30°	WELDON	BRILLANTE		 34 HRc	INOX Al		265

FRESE FRONTALI CILNDRICHE SERIE CORTA E SERIE LUNGA

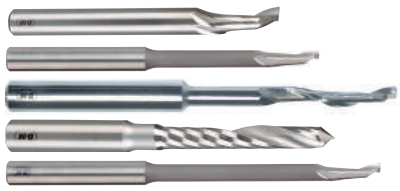
FFLAL			2Z	HSSCo 8%	DIN 844/L	45° W	WELDON	BRILLANTE			Al	265
FF63 FF75 FT63			2Z	HSSCo 8%	DIN 844	30° N	WELDON	BRILLANTE TiAlN TiAlSiN		34 HRc	INOX Al	266
FF73 FF76 FT73			3Z	HSSCo 8%	DIN 844	30° N	WELDON	BRILLANTE TiAlN TiAlSiN	NR	34 HRc	INOX Al	266
FP06 FT03		Premium Quality	3Z	ASP 60	DIN 327	30° N	WELDON	BRILLANTE TiAlSiN		34 HRc	INOX Al	266
FF83 FF86 FT83			3Z	HSSCo 8%	DIN 844/L	30° N	WELDON	BRILLANTE TiAlN TiAlSiN		34 HRc	INOX Al	267
FF18 FF20 FT18			4-6Z	HSSCo 8%	DIN 844	30° N	WELDON	BRILLANTE TiAlN TiAlSiN		34 HRc	INOX Al	268
FP07 FT09		Premium Quality	4-6Z	ASP 60	DIN 844	30° N	WELDON	BRILLANTE TiAlSiN		34 HRc	INOX Al	268
FF21 FF23 FT21			4-6Z	HSSCo 8%	DIN 844/L	30° N	WELDON	BRILLANTE TiAlN TiAlSiN		34 HRc	INOX Al	270
FP20		Premium Quality	4-6Z	ASP 60	DIN 844/L	30° N	WELDON	BRILLANTE		34 HRc	INOX Al	270
FF25 FF27 FT25			4-6Z	HSSCo 8%	DIN 844	30° N	WELDON	BRILLANTE TiAlN TiAlSiN	NR	34 HRc	INOX Al	269
FF29 FF31 FT29			4-6Z	HSSCo 8%	DIN 844/L	30° N	WELDON	BRILLANTE TiAlN TiAlSiN	NR	34 HRc	INOX Al	269
FF03*			4-6Z	HSS	DIN 844	30° N	WELDON	BRILLANTE		34 HRc	INOX Al	270
FF04* FF54* FT04*			4-6Z	HSSCo 8%	DIN 844	30° N	WELDON	BRILLANTE TiAlN TiAlSiN		34 HRc	INOX Al	270
FF07* FF57* FT07*			4-6Z	HSSCo 8%	DIN 844/L	30° N	WELDON	BRILLANTE TiAlN TiAlSiN		34 HRc	INOX Al	270
FP10 FT10		Premium Quality	3-5Z	ASP 60	DIN 844	30° N	WELDON	BRILLANTE TiAlSiN	NF	34 HRc	INOX Al	271
FP11 FT11		Premium Quality	3-5Z	ASP 60	DIN 844	30° N	WELDON	BRILLANTE TiAlSiN	NR	34 HRc	INOX Al	271
FP15 FT15		Premium Quality	3-5Z	ASP 60	DIN 844/L	30° N	WELDON	BRILLANTE TiAlSiN	NF	34 HRc	INOX Al	271
FP13 FT13		Premium Quality	3-5Z	ASP 60	DIN 844/L	30° N	WELDON	BRILLANTE TiAlSiN	NR	34 HRc	INOX Al	271
FF51 FF53			3Z	HSSCo 8%		30° N	WELDON	BRILLANTE		34 HRc	INOX Al	272

* Frese senza taglio al centro

FRESE IN METALLO DURO PER MATERIALI COMPOSTI: FIBRA DE CARBONIO...

RFC RFCTL RF RFTL NEW RFF RFFTL		MD	BRILLANTE	TiAlN				PHENOLIC		273
NEW FC11 FC12 FC13 FC14		MD	BRILLANTE					PHENOLIC		273

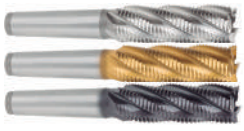
FRESE MONOTAGLIENTI PER ALLUMINIO E PVC

FF13 FF14 FF14-E FF50 FF14 Especiales		1Z	HSSCo	BRILLANTE TiN					Al PVC	274
FMGA13 FMGA13E FMGA13HI FMGA13CO FMGA13R		1Z	MD	A	B	C	R		Al PVC	276

FRESE PER SCANALATURE, ANGOLARI E ¼ DI RAGGIO

FF17 FF17C		SCANALARE EN T	HSSCo	DIN 851A	CILINDRICO	DIN 851B	CÓNICO	BRILLANTE TiAlN		277
FF16		WOODRUFF	HSSCo	DIN 850B	CILINDRICO			BRILLANTE TiAlN		277
FF1/4R		4Z	HSSCo 8%	DIN 6518N	WELDON	R				277
FF98 FF99		α	HSSCo	DIN 1833A	CILINDRICO	45º 60º		BRILLANTE		278
FF97 FF95		α	HSSCo	DIN 1833B	CILINDRICO	45º 60º		BRILLANTE		278

FRESE FRONTALI CONICHE SERIE CORTA E LUNGA

FF09 FF35 FF39		4-8Z	HSSCo 8%	DIN 845B	30° N	CONICO	BRILLANTE TiN TiAlN			INOX Al	279
FF10 FF46 FF48		4-8Z	HSSCo 8%	DIN 845B	30° N	CONICO	BRILLANTE TiN TiAlN	NR		INOX Al	279
FF55		2Z	HSSCo 8%	DIN 326	30° N	CONICO	BRILLANTE			INOX Al	279
FF11 FF61 FF71		4-8Z	HSSCo 8%	DIN 845B/L	30° N	CONICO	BRILLANTE TiN TiAlN			INOX Al	280
FF12 FF33 FF43		4-8Z	HSSCo 8%	DIN 845B/L	30° N	CONICO	BRILLANTE TiN TiAlN	NR		INOX Al	280

SET ED ESPOSITORI DE FRESE

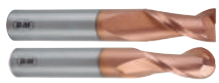
281



FRESE IN METALLO DURO INTEGRALE PER APPLICAZIONI GENERALI – SERIE CORTA, LUNGA E EXTRA LUNGA

FMD2 FMD2TL		2Z	MD	30° N	CILINDRICO	BRILLANTE TiAlN		44 HRc	INOX TI	Al		286
FMD63 FMD63TL		3Z	MD	30° N	CILINDRICO	BRILLANTE TiAlN		44 HRc	INOX TI	Al		286
FMD48 FMD48TL		4Z	MD	30° N	CILINDRICO	BRILLANTE TiAlN		44 HRc	INOX TI	Al		287
FMD54 FMD54TL		2Z	MD	30° N	CILINDRICO	BRILLANTE TiAlN		44 HRc	INOX TI	Al		288
NEW FMD73 FMD73TL		3Z	MD	30° N	CILINDRICO	BRILLANTE TiAlN		44 HRc	INOX TI	Al		288
FMD58 FMD58TL		4Z	MD	30° N	CILINDRICO	BRILLANTE TiAlN		44 HRc	INOX TI	Al		288
FMD53 FMD53TL		2Z	MD	30° N	CILINDRICO	BRILLANTE TiAlN		44 HRc	INOX TI	Al		289
FMD56 FMD56TL		4Z	MD	30° N	CILINDRICO	BRILLANTE TiAlN		44 HRc	INOX TI	Al		289
FMD92 FMD92TL		2Z	MD	30° N	CILINDRICO	BRILLANTE TiAlN		44 HRc	INOX TI	Al		290
FMD51 FMD51TL		4Z	MD	30° N	CILINDRICO	BRILLANTE TiAlN		44 HRc	INOX TI	Al		290
FMD57 FMD57TL		2Z	MD	30° N	CILINDRICO	BRILLANTE TiAlN		44 HRc	INOX TI	Al		290
FMD55 FMD55TL		2Z	MD	30° N	CILINDRICO	BRILLANTE TiAlN		44 HRc	INOX TI	Al		291

FRESE IN METALLO DURO INTEGRALE ALTO RENDIMENTO E PRODUZIONE

FMT42 FMT92		Premium Quality	2Z	MD	30° N	CILINDRICO	TiAlSiN		44 HRc	INOX TI	NI	292
FMT63		Premium Quality	3Z	MD	30° N	CILINDRICO	TiAlSiN		44 HRc	INOX TI	NI	292
FMT48		Premium Quality	4Z	MD	30° N	CILINDRICO	TiAlSiN		44 HRc	INOX TI	NI	292
FMT81		Premium Quality	4Z	MD	35° 38°	CILINDRICO	TiAlSiN		44 HRc	INOX TI	NI	292

FRESE TORICHE DI METALLO DURO

NEW FMG10R		2Z	MD	Micro Grana	30°	CILINDRICO	TiAlN	R	44 HRc	USO GENERALE		293
NEW FMG54R		4Z	MD	Micro Grana	30°	CILINDRICO	TiAlN	R	44 HRc	USO GENERALE		293

FRESE IN METALLO DURO MICROMETRICHE CON E SENZA COLLO

NEW FMD22 FMD35		2Z	MD	Micro Grana	30° N	CILINDRICO	SENZA COLLO		44 HRc	USO GENERALE		294
NEW FMD22 FMD35		2Z	MD	Micro Grana	30° N	CILINDRICO	CON COLLO		44 HRc	USO GENERALE		294
NEW FMD22 FMD35		2Z	MD	Micro Grana	30°	CILINDRICO	CON COLLO		44 HRc	USO GENERALE		295
NEW FMD44		4Z	MD	Micro Grana	30°	CILINDRICO	CON COLLO		44 HRc	USO GENERALE		295

FRESE FRONTALI IN METALLO DURO INTEGRALE PER SGROSSATURA FINE, MEDIA E GROSSA

FMD3 NEW FMD43		NM	MD		45°	CILINDRICO			56 HRc			296
FMD1		NF	MD		30°	CILINDRICO			56 HRc			296
FMD6		NR	MD		30°	CILINDRICO			56 HRc			296

FRESE IN METALLO DURO INTEGRALE SPECIALI PER INOX

FMG10		INOX	MD	Micro Grana	2Z	30°	CILINDRICO	TiAlN	55 HRc	Ti		297
FMD67		INOX	MD	Micro Grana	3Z	35° 38°	CILINDRICO	TiAlSiN	55 HRc	Ti		297
FMG12		INOX AISI 316L	MD	Micro Grana	4Z	35° 38°	CILINDRICO	TiAlSiN	55 HRc	Ti	INC	298
FMG83		INOX AISI 316L	MD	Micro Grana	4Z	43° 45°	X-45°	CILINDRICO	TiAlSiN	Ti	INC	298

FRESA MULTIUSO

NEW FMG80		MULTI MATERIALE	MD	Micro Grana	4Z	43° 45°	CILINDRICO	TiAlN	56 HRc			299

FRESA SFERICA 4 TAGLIENTI PER STAMPISTI

NEW FMG86		STAMPISTI	MD	Micro Grana	4Z	38°	CILINDRICO	TiAlSiN	65 HRc	INOX	Ti	299

FRESE IN METALLO DURO INTEGRALE SPECIALI PER INOX

FMG14		INOX	MD	Micro Grana	6Z	45°	CILINDRICO	TiAlN	65 HRc	Ti	INC	300
FMG25		INOX	MD	Micro Grana	6Z	45°	CILINDRICO	TiAlN	65 HRc	Ti	INC	300

FRESE IN METALLO DURO MICRO GRANA SERIE PLUS SERIE CORTA E LUNGA

FMD59		Al	MD	Micro Grana	2Z	45° N	CILINDRICO		Cu	PVC		301
FMD33		Al	MD	Micro Grana	3Z	45° N	CILINDRICO		Cu	PVC		301
NEW FMD69		Al	MD	Micro Grana	2Z	45° N	CILINDRICO		Cu	PVC		302
NEW FMD23		Al	MD	Micro Grana	3Z	45° N	CILINDRICO		Cu	PVC		302
NEW FMD93		Al	MD	Micro Grana	2Z	40° N	CILINDRICO		Cu	PVC		303
NEW FMD94		Al	MD	Micro Grana	2Z	40° N	CILINDRICO		Cu	PVC		303

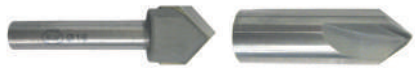
FRESE FRONTALI IN METALLO DURO INTEGRALE PER SGROSSATURA FINE PER INOX

FMG13		INOX	MD	Micro Grana	3-4Z	50°	WELDON		45 HRc	Ti	INC	304
FMG15 FMG16		NF INOX	MD	Micro Grana	3-5Z	30°	WELDON		45 HRc	Ti	INC	305
FMG17 FMG18 FMG19		NF INOX	MD	Micro Grana	3-6Z	45°	WELDON		45 HRc	Ti	INC	306 307

FRESE PER ACCIAI DA TEMPRA ESTREMA 70HRC

FMG01 FMG04		70 HRc	MD	Micro Grana	30°	30°	CILINDRICO	BLUE		2Z 4Z	308
FMG02		70 HRc	MD	Micro Grana	30°		CILINDRICO	BLUE		2Z	309
FMG06 FMG07		70 HRc	MD	Micro Grana	45°		CILINDRICO	BLUE		6Z	310
FMG09 FMG08		70 HRc	MD	Micro Grana	30°	30°	CILINDRICO	BLUE		2Z	311

FRESE SPECIALI PER ALUCOBOND

FFALUC FFALUC...MDI		PMD	MDI	ALUCOBOND	312

FRESE PER SCANALARE

FF56			HSSCo	DIN 885A	3Z	DENTATURA ALTERNATA	314
FF59			HSSCo	DIN 885B	3Z	DENTATURA DRITTA	315

FRESE A MODULO PER INGRANAGGI

99RFM		HSS		PER INGRANAGGI	316

FRESE CILINDRICHE FRONTALI CON CHIAVETTA TRASVERSALE E CODOLO

FF87			HSSCo	DIN 1880	30°		FINITURA	316
FF88			HSSCo	DIN 1880	30°	NR	SGROSSATURA	316
FF89			HSSCo	DIN 884	30°		CILINDRICA A SPIANARE	317
FMF87			HSSCo 8%		30°		FINITURA	317
FMF88			HSSCo 8%		30°	NR	SGROSSATURA	317

FRESE SEMICIRCOLARI, ANGOLARI ISOSCELI

FF77 FF78/79		HSSCo	DIN 847	45°	60°	90°	FF91/90		HSSCo	DIN 842	50°	60°	318

UTENSILI PER I SERRATURIERI. La gamma più ampia di utensili per i serraturieri.



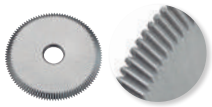
321
322

FRESA CILINDRICA IN METALLO DURO INTEGRALE CON PUNTA FORANTE E TAGLIENTI SEGHETTATI

NEW

RCC		MD	66 HRc	INOX		Cu-Ni-La	PHENOLIC	322

FRESE PER MACCHINE DUPLICATRICI DI CHIAVI TIPO JMA

FLLFP4 FLLFP19 FLLFP22W		SERRETA O BIÓNICAS		CIRCULARES CORTE LATERAL		LLAVES DE GORJAS	324
FLLF3		FRESINI PER CHIAVI LASER	FLLF1		FRESE DA CENTRO UNIVERSALE PER MACCHINE TIPO JMA E SILCA		325
FLLP1		TASTATORI	FLLP3		TASTATORI		326

FRESE PER MACCHINE DUPLICATRICI DI CHIAVI TIPO SILCA

SLLP01 SLLSG2 SLLSG7W		FRESE PRISMATICHE		FRESE CIRCOLARI A TAGLIO LATERALE	 FRESE A SEGHETTO 327
SLLF1W				MATRIX	FRESINI PER CHIAVI PUNZONATE 329
SLLF3				MATRIX	FRESINI PER CHIAVI LASER 330
SLLW133				QUATTROCODE TRIAX-E	FRESINI PER CHIAVI LASER 330
SLLW103				QUATTROCODE TRIAX-E	FRESINI PER CHIAVI PUNZONATE 331
SLLW103Z1				QUATTROCODE TRIAX-E	FRESINI PER CHIAVI PUNZONATE 332
SLLH103					FRESINI PER CHIAVI PUNZONATE 332
SLLH101					FRESINI PER CHIAVI LASER 333
SLLT1 SLLT3					TASTATORI 334

FRESE ROTATIVE HSS



HSS	SERIE CORTA: CODOLO DA 6 x 40 mm. SERIE LUNGA: CODOLO DA 6 x 100 mm. 336

FRESE ROTATIVE PER INCISIONI HSS



HSS	CODOLO: 3 /6 mm. 338

FRESE ROTATIVE IN METALLO DURO SERIE STANDARD E SERIE LUNGA

TIPO A		MD 340	TIPO A/E		MD 341
TIPO C		MD 342	TIPO D		MD 343
TIPO E		MD 344	TIPO F		MD 345
TIPO G		MD 346	TIPO H		MD 347
TIPO J		TIPO K 	MD 348	TIPO L 	MD 349
TIPO M		TIPO N 	MD 350 351	TIPO DISCO 	TIPO RADIALE  MD 352

FRESE ROTATIVE MICROMETRICHE



MD | INOX | Ti | NI | GHISA   353

ROMPI VITI E MASCHI ROTTI



CODOLO 6 mm. 354

NEW

ASTUCCI DI ESTRATTORI 354

ASTUCCI DI FRESE ROTATIVE IN METALLO DURO 355



PROLUNGA FLESSIBILE PER SMERIGLIATRICE

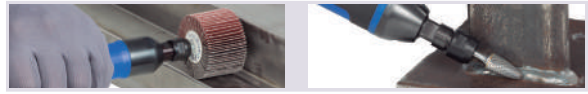


RTFD 358

SMERIGLIATRICI PER FRESE ROTATIVE

P25M/P25LR P25XLR





359

FRESE ROTATIVE IN DIAMANTE

A...D C...D



360

MOLE CERAMICHE



CODOLO: 3 /6 mm. 361

LAME A NASTRO BIMETALLICHE 366

STANDARD M42	Seghe multiuso di qualità per tutti i tipi di SOLIDI.	M42 8% Co	0°	3° 5° 7° 10°	
TOP PRODUZIONE M51	Seghe di altissima qualità per solidi legati e inossidabili.	M51 10% Co	10°	INOX	ALTA PRODUZIONE
PROFILATI	Seghe a DENTE RINFORZATO per Strutture, Profili, Tubi e Pieni.	M42 8% Co		RINFORZATI	
MASTER	Le seghe MASTER sono realizzate in M42 con denti rettificati alternare per un taglio più veloce nei SOLIDI.	M42 8% Co	10°		
ALLUMINIO/LEGNO	Speciale per alluminio, materiali non ferrosi e legno.	M42 8% Co	10°	Al	Cu-Ni-La
WOOD CUT	Le seghe WOODCUT sono realizzate in M42 con denti adatti ad riaffilature ripetute.	M2 HSS	10°		

LAME PER MACCHINE ALTERNATIVE



HSS CV Tungsteno 381

LAME PER MACCHINE ALTERNATIVE

SOM



HSS

- Alta resistenza agli impatti.
- Per lavori in tutti i tipi di materiali.

382

SEGHE AD ARCO

ASYH



382

LAME PER SEGHETTI ALTERNATIVI

P55



HSS CV BI Tungsteno 387

GJ



BI INOX 1-2 mm 1-2 mm 1-2 mm 396

RHS



HSS INOX 2-6 mm 2-6 mm 2-6 mm 396

LAME PER SEGHE A GATTUCCIO

AG
WC



CV · BI · Tungsteno



INOX · Al

400

MANICO BIMATERIALE PER TAGLIO CON SEGHE A GATTUCCIO

NEW

AG100



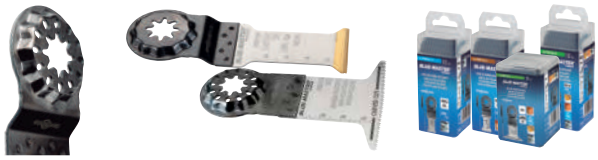


- Serraggio universale da 1/2".
- Cambio rapido.
- Fissaggio perfetto, senza gioco e grande resistenza.

410

LAME AD OSCILLAZIONE

FTK STARLOCK



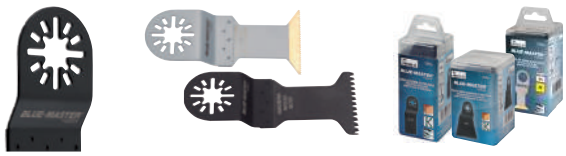
HSS · HSSCo 8% · HCS · TiN · MD



PVC

412

FM BLUE-MASTER



HSS · HSSCo 8% · HCS · INOX · MD



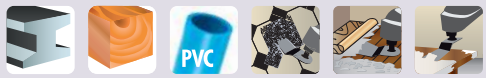
PVC

418

QC QUICK CHANGE



HSS · HSSCo 8% · HCS · TiN · INOX



PVC

425

SP SUPER CUT



HSS · HSSCo 8% · HCS · TiN · INOX



PVC

428

PUNTA PER LEGNO

BM		CV		★★	CILINDRICO				432
BMPR		HSS		★★ ★★	CILINDRICO				433
BM"S"		CV	TIPO S	★★	⬢				434
BMSDS		CV	TIPO S	★★ ★★	SDS Plus				435
BMMD		MD	TIPO S	★★ ★★	⬢				435
BM2P		CV	DOPPIO CANALE	★★	⬢				436
BMC		CV	TIPO S	★★	⬢				436
NEW **Su richiesta**									PUNTA DA TRAPANO PER LA FORATURA DI TRAVERSE FERROVIARIE 436
BMH		CV	TIPO S	★★ ★★	1/4"				437

PUNTA PER FORI QUADRATI NEL LEGNO

BMCC		CV		★★	CILINDRICO				437

MECCHIA PIATTA PER LEGNO

BMP
BMPX400



CV — 1/4" — 437

FRESA PER TASELLI

TM





CV — CILINDRICO — 438

PUNTA DI NUOVA GENERAZIONE 4 TAGLIENTI PER LEGNO TIPO CASTOR

BM4P





HSS — 4 TAGLIENTI — 439

PUNTA PER INSTALLAZIONE DI SERRATURE E CERNIERE NEL LEGNO, CODOLO ESAGONALE

BB
BMF



MD — CILINDRICO — 440

BMF1



CV — FORSTNER — CILINDRICO — >65mm — 440

PUNTA PER ASSEMBLAGGIO DI VITI NEL LEGNO A CODOLO ESAGONALE

BM3



CV — 1/4" — 441

PUNTA PER INSTALLAZIONE DI SERRATURE E CERNIERE NEL LEGNO, CODOLO ESAGONALE

BM4



CV — 1/4" — 441

PUNTA CV PER LEGNO A SVASARE CODOLO CILINDRICO E CODOLO ESAGONALE

BM5



CV — 1/4" — 441

BM6



CV — CILINDRICO — 441

PUNTA PER LEGNO A 3 TAGLIENTI IN METALLO DURO

BME



CV — CILINDRICO — 442

PUNTA PER LEGNO A 3 TAGLIENTI IN METALLO DURO

BMMD



MD — CILINDRICO — PVC — 442

SVASATORI E COLLARE DI ARRESTO PROFONDITÀ PER PUNTE A CODOLO CILINDRICO

AV25/AV26
TOPE



442

PUNTE PER CASSEFORME IN LEGNO

BE



CV — DIN 7490 — CILINDRICO — 443

BESDS



CV — DIN 7490 — SDS Plus — 444

INSERTI INTERCAMBIABILI PER AVVITATORE



PHILLIPS | POZIDRIV | TESTA PIATTA | TORX | TORX ROTONDA | ROBERTSON | TORX SICUREZZA | ESAGONALE | TRI WING | XZN

Plus ★★ — 25 mm — 446



PHILLIPS | POZIDRIV | TESTA PIATTA | TORX | TESTA QUADRA ROBERTSON | TESTA ESAGONALE

50 mm — 449



PHILLIPS 70 mm 90 mm | POZIDRIV 70 mm 90 mm

70 mm — 90 mm — 451

INSERTI INTERCAMBIABILI PER AVVITATORE






PHILLIPS	25 mm	50 mm	POZIDRIV	25 mm	50 mm	PIATTA	25 mm	TORX	25 mm	50 mm	TiN ★ ★★	25mm	50mm	452 453

PORTAINSERTI MAGNETICI



PMG		1/4"			454
PCR	A CAMBIO RAPIDO (Adatto per inserti di ¼" con collo)	1/4"			454
PCT	CON ANELLO MAGNETICO FRONTALE SUPPLEMENTARE PER FISSAGGIO DI VITI	1/4"	1/4"		454

BUSSOLE MAGNETICHE ESAGONALI




PLIH		1/4"	50mm		455
DTRC		Plus			455
					455

GIRAVITE A CRICCHETTO CON STOCCAGGIO DI INSERTI

ESTRATTORI A MANO E A MACCHINA PER VITI ROTTE



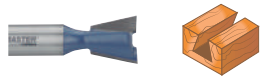
MICRO GRABIT			458
PRO GRABIT	CORPO ESAGONALE 1/4"		458
DRILL OUT	CON PUNTA PILOTA (M6-M12)		458
X-OUT	CON CODOLO ESAGONALE (M3-M5)		458
EX EFX	ESTRATTORI A MANO		459

UTENSILI A CODOLO ESAGONALE 1/4"



BH2	HSS	DIN 338		118°		30° "N"	OX	1/4"		459
BC59 BC59CR	HSS-G						BRILLANTE	1/4"		460
MAHM MAHMCR	HSS-G			PUNTA-MASCHIO SVASATORE			BRILLANTE	1/4"		460
M MCR	HSS-G			MASCHIO			BRILLANTE	1/4"		460
NEW MTKM	HSSCo 5%	TOL 6H		STEPCUT			BRILLANTE	1/4"		461
AV22	HSS-G			SVASATORE A 3 TAGLIENTI			BRILLANTE	1/4"		461
AV1...CR		90°					OX	1/4"		461
BWH	PMD							1/4"		462
BMH	CV							1/4"		462

FRESE PER ELETTROFRESATRICI

FRC1		MD	1Z	2Z	464	FRC2		MD	1Z	2Z	464
FRC3		MD	2Z		465	FRC4		MD	2Z		465
FRC5		MD	90°		465	FRC6		MD	14°		466
FRC7		MD			466	FRC8		MD			466
FRC9		MD			467	FRC10		MD			467
FRC11		MD			467	FRC12		MD			468
FRC13		MD			468	FRC14		MD			468

PUNTA AD ALTO RENDIMENTO CON TESTA IN DIAMANTE PER MATERIALI MOLTO DURI, GRÈS, PORCELLANICI, ECC.

PD / CPD HPD			470

PUNTE PER EDILIZIA

BW9															471
BW7															472
BW13			TiN											PHENOLIC	473
BC90B															473
NEW BW5															474
CPS															475
CPH															476
NEW CAH															477
BC70B														PVC	477
BW1					DIN 8039										478
BW6					DIN 8039										480
BW16															482
BW35				130°											483
BW8					DIN 8039										484

PUNTE PER EDILIZIA A CODOLO SDS PLUS

WT			485
W08			486
W05			488
W55			490
W88			492
W77			494
W99			496

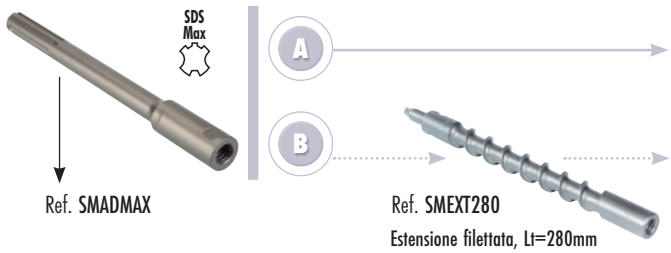
PUNTA PER TAGLIARE LA ARMATURA SDS PLUS

REB			497

NUOVO SISTEMA PER LA FORATURA PROFESSIONALE FORATURA MODULARE

NEW

FORARE, facilmente fino a 3 metri di profondità, nei diametri da 26 mm a 150 mm
AGGIUNGERE, il numero di prolunghe da considerare fino ad ottenere la lunghezza di foratura necessaria.
COMBINA, Mandrino SDS MAX con Prolunghe, Punte da trapano, Testa demolitrice e corone da realizzare perforare profondità estremamente lunghe e inaccessibili.
LUNGHEZZA MASSIMA CONSIGLIATA 3 METRI.



498

PUNTE PER TRAPANO A MARTELLO SDS MAX

QT			500
AX			501
AX			501
X4AX			502

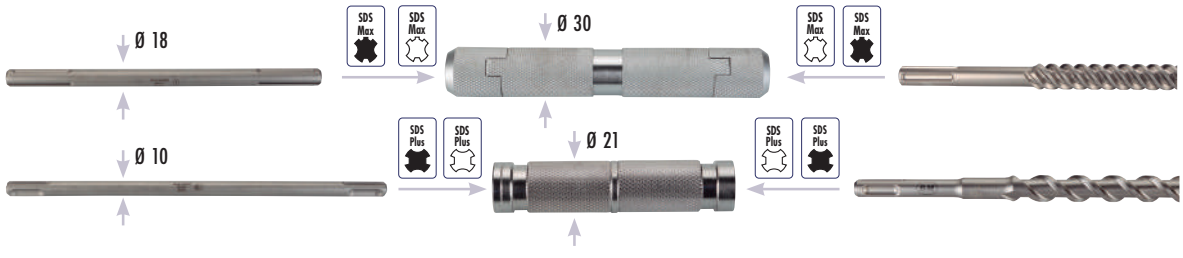
ADATTATORI A CAMBIO RAPIDO SDS PLUS

QFMX QFK2		503

ESPANSORI SDS-PLUS & SDS-MAX

NEW
HMAX
MMAX

NEW
HPLUS
MPLUS

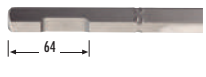
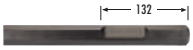
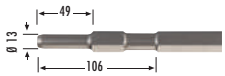
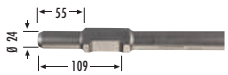
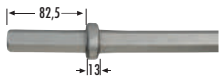
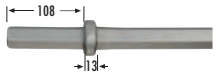
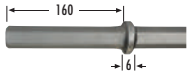
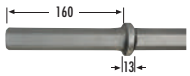


503

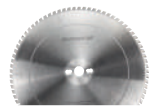
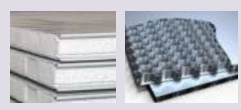
RASTRELLO IN CARBURO PER MALTA

BW33			MD	 504

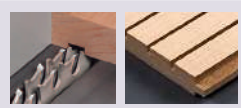
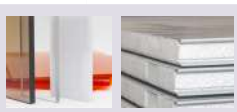
SCALPELLI

SDS Plus			SDS Plus		508
SDS Max			SDS Max		509
SDS Max			SDS Max		510
BOSCH Ø 16,5			19		511
BOSCH Ø 19			19		511
KANGO Ø 19			21		512
BOSCH Ø 28			28		512
MAKITA Ø 13			17		513
MAKITA Ø 24			30		513
HILTI			22		513
HEX.			22		514
HEX.			25		514
HEX.			28		514
HEX.			32		514

DISCHI DA TAGLIO PER METALLO

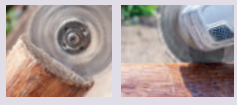
FF93 FF94 FF68		HSS DIN 1837 TAGLIO <5mm		HSS DIN 1838 TAGLIO <5mm		OX	520 521
S5CM S8CM S7CM							522

DISCHI DA TAGLIO PER LEGNO

S1CM S99CM S4CM		MD 		MD 			523
S2CM SINC S3CM		 					524
S6CM S11CM		MD 		MD 			525
S9CM S10CM		MD 		PCD 			525

SEGHE CIRCOLARI

DD37
DD23
DD27



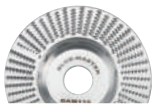

NEW **MULTIFUNCTION**



526

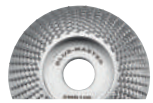
DISCHI PER SGROSSATURA DI LEGNO PER USO CON RADIALE

DMA115
DMB100



HCS





HCS



527

DMC125
NEW DMR



HCS





NEW HCS



527

FRESA PER SCANALATURA NEL LEGNO PER USO CON RADIALE

NEW FRDB
FEDB
FDB



M14X2

NEW





M14X2

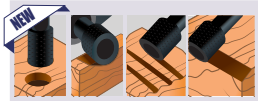
NEW





M14X2

NEW



528

DISCO PER INTAGLIARE, MODELLARE, E SGROSSATURA DI LEGNO PER USO CON RADIALE

NEW DMD
DME
DD34



NEW



EXTRA HARD QUALITY



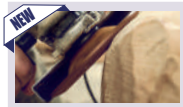
NEW



EXTRA HARD QUALITY



NEW



EXTRA HARD QUALITY

529

DISCHI DA TAGLIO MULTIUSO PER USO CON RADIALE

DD7
SCEP
DD36





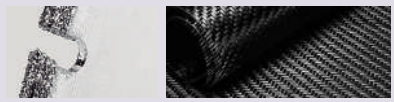
TOP MULTIFUNCTION




530

SCMD
MDT



531

FFLATIG
RFLATIG






CRS
ADQCA

ACCESSORI 532

DISCHI DIAMANTATI PER EDILIZIA

DD1
DD2
DD3



DIAMOND GENERAL DE OBRA



TOP DIAMOND GENERAL DE OBRA



TURBO 533

DD4
DD29
DD6



TOP TURBO



NEW **TWIN TILE**





TOP TILE 534

DD8
DD35



EXTRACLEAN TILE




535

DD5
DD9
DD12



DIAMOND H_2O



CANTERO



MARMOLISTA 536

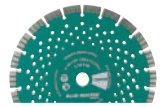
DD13
DD14
DD15



ABRASIVES



ASPHALT

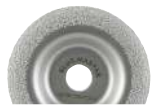


CONCRETE 537

DR
DD39
DD22



TOP WALL



NEW







MULTIFUNCTION EXTRA HARD QUALITY 538

PIATTI DIAMANTATI PER EDILIZIA

DD10/11
DD20
DD40



UNIVERSAL STONE
TOP STONE



TOP STONE THREAD



NEW **BOOMERANG** 539

DISCHI DA TAGLIO ABRASIVI

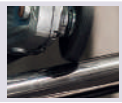
AB05 AB11 AB11		INOX METAL	541
AB17 AB18		STONE	542
AB15 AB20 DD21		INOX METAL *XTRA LONG life*	543









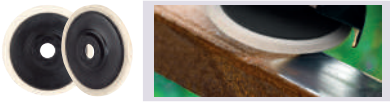
INOX METAL


541

MULTIFUNCTION
542

INOX METAL *PROFESSIONAL*
543

DISCO LUCIDANTE - CORPO LEVIGATRICE E ACCESSORI

DD24 DD25 DD26		544
DD28 DD33 DD31 DD32		545

SUPPORTO MULTILEVIGATURA CON CAMBIO RAPIDO CDR

NEW

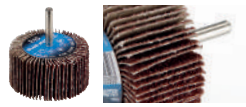
RLOC




 **RLOC1** ALOX	 **RLOC2** ALOX PLUS	 **RLOC3** ZIRCONIO	 **RLOC4** CERAMIC	547
 **RLOC5** CERAMIC	 **RLOC6** CONDITIONING	 **RLOC7** C-STRIP	 **RLOC8** UNITIZED	548

NASTRI ABRASIVI

AB50 FP		 PVC	548




SEGHE A TAZZA BIMETALLICHE

CB	30 mm	HSS M3	4/6		Al	Cu-Ni-La	GHISA	PVC		552
COB	45 mm	HSSCo 8%	4/6		INOX	Cu-Ni-La	GHISA			553




ALBERI E ACCESSORI PER SEGHE A TAZZA BIMETALLICHE 554

INSIEME DI SEGA A TAZZA E RONDELLA PER PLADUR

CPL67 CPL68		555





SEGHE A TAZZA BIMETALLICHE EXTRA LUNGE

CBX100	100 mm	HSS M3	4/6		Al	Cu-Ni-La	GHISA	PVC		556
COBX100	100 mm	HSSCo 8%	4/6		INOX	Cu-Ni-La	GHISA			556



ESPOSITORI E VALIGETTE DI SEGHE A TAZZA BIMETALLICHE HSS 557

FRESE A TAZZA RIAFFILABILE HSS PER METALLI

CBR CBR..T	5 mm	HSS	BRILLANTE TiN		Al	Cu-Ni-La	GHISA	560
CBC CBCTL	10 mm	HSSCo	BRILLANTE TiAlN		INOX	Cu-Ni-La	GHISA	Al 562






FRESE A TAZZA RIAFFILABILE HSS PER METALLI

CCF		2 mm	HSS	BRILLANTE		Al	Cu-Ni-La	GHISA		564

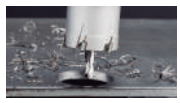
SEGA A TAZZA CON DENTI IN METALLO DURO RAZORBACK

CBMD	 	35 mm				Cu-Ni-La				565

FRESA A TAZZA IN METALLO DURO CON PUNZONE RETRATTILE PER LAVORO SERIALE

CP	 	12 mm	MD			Al	Cu-Ni-La	GHISA		566

SUPER FRESE A TAZZA IN METALLO DURO PER TUTTI I TIPI DI MATERIALI, INOX, ACCIAIO...

CX	 	12 mm	MD	INOX		Al	Cu-Ni-La	GHISA		567
CXL	 	25 mm	MD	INOX		Al	Cu-Ni-La	GHISA		567

SUPER FRESE A TAZZA IN METALLO DURO PER TUBI E LAMIERE (SPECIALE INOX)

X	 	5 mm	MD	INOX		Al	Cu-Ni-La	GHISA		568
XT	 	5 mm	MD	INOX		Al	Cu-Ni-La	GHISA		568

SUPER FRESE A TAZZA MULTIFUNZIONE IN METALLO DURO PER PIENI

CXX	 	50 mm	MD			Al	Cu-Ni-La	GHISA		570
C50X	 	5 mm	MD			Al	Cu-Ni-La	GHISA		571

FRESA A TAZZA PER LAVORI PESANTI CON DENTI IN METALLO DURO E CAMBIO POLY-CLICK

MBM		50 mm	MD	INOX	55 HRc	Al		GHISA		572

PUNZONE PER LAMIERE SOTTILI FINO E ACCESSORI

PC		4 mm								573

FRESE A CAROTARE PER MACCHINE A SUPPORTO ELETTROMAGNETICO

250R 500R		30 mm	50 mm	HSS	2 x 90° WELDON	75 Kg/mm²	INOX	Al		576
250C 500C		30 mm	50 mm	HSSCo 8%	2 x 90° WELDON	110 Kg/mm²	INOX	Al		577
250T 500T		30 mm	50 mm	HSSCo 8%	2 x 90° WELDON	110 Kg/mm²	INOX	Al	TiAlN	578
750C 1000C		75 mm	100 mm	HSSCo 8%	2 x 90° WELDON	110 Kg/mm²	INOX	Al		579
1500C 2000C		150 mm	200 mm	HSS	2 x 90° WELDON	75 Kg/mm²	INOX	Al		580

FRESE A CAROTARE PER TRAPANI A SUPPORTO ELETTROMAGNETICO CON DENTI IN METALLO DURO

350A 500A		35 mm	50 mm	MD	2 x 90° WELDON		INOX	Al	Cu-Ni-La	GHISA			581
750A 1000A		75 mm	100 mm	MD	2 x 90° WELDON		INOX	Al	Cu-Ni-La	GHISA			582

FRESE A CAROTARE PER MACCHINE A SUPPORTO ELETTROMAGNETICO SPECIALE PER ROTAIE DELLE FERROVIE, HARDOX...

MB250AT MB500AT		25 mm	50 mm	HSSCo 8%	2 x 90° WELDON	HARDOX 450	HARDOX 500	TiAlN	ROTAIE DELLE FERROVIE E MATERIALI MOLTO DURI			583
MB350ST MB500AT		35 mm	50 mm	MD	2 x 90° WELDON	HARDOX 450	HARDOX 500	HARDOX 600	ROTAIE DELLE FERROVIE			583

PUNTE, PUNTA-MASCHI E ACCESSORI PER MACCHINE A SUPPORTO MAGNETICO

									ADATTATORI, PUNZONI Ø 8,3mm. PUNTA SVASATORA			584
NEW EFB								HSS	HSSCo			588

CORONE LEGGERE PERFORATRICE PER EDILIZIA

600W		80 mm		MD	SDS Plus							592
CW		95 mm		MD	SDS Plus	SDS Max						593
HA		54 mm		MD	SDS Plus							594
MD		60 mm		MD	SDS Plus							595
MH		100 mm		MD		SDS Max						596

CORONA PESANTE DA COSTRUZIONE, DENTI METALLICI IN METALLO DURO FISSAGGIO CONICO 1:8 ANTIROTTURA

NEW CLA		70 mm		MD		SDS Max						597
NEW PM		190-450 mm		MD		SDS Max						597

FRESE A TAZZA IN DIAMANTE

CDE CMAD		40 mm									PVC	598
NEW CDD		60 mm	M16X2									599
NEW CAH			1/4"									599
CHH		300-450 mm	1.1/4"									600
CSE		35 mm	M14X2								PVC	601

SVASATORI IN DIAMANTE SALDATO A VUOTO PER GRANITO, MARMO E PORCELLANICI

AVD



M14X2 | PVC | 602

FRESA A TAZZA IN CARBURO DI TUNGSTENO PER MATERIALI NON METALLICI

MG



30 mm | Tungsteno | 603

FRESA A TAZZA AD ALTO RENDIMENTO PER LEGNO CON DENTI IN METALO DURO

CM



60 mm | MD | PVC | 604

SEGA REGOLABILE A COMPASSO E PEZZI DI RICAMBIO

TB-9600-200
CL220
CL285
CL410



200 mm | 220 mm | 285 mm | 410 mm | 605

FRESA A TAZZA IN DIAMANTE PER CALCESTRUZZO ARMATO CON SISTEMA DI CAMBIO POLY-CLICK

CDH



150 mm | 608

SELEZIONE DEGLI UTENSILI IN POLLICI

BC2P
BC5P
BC95P
FMT2
FMT48





BW6P
BW1P
W05P
W55P
AXP





610

UTENSILI IN BLISTER E ASTUCCIO



METALLO

BC2B/BC2F	BC02B/BC02F	BC5B / BC5F	BC9P	BC99P	BC18B/BC18F	BC95/BC95F	BTXB/BTXF	TTXB/TTXF	TK02B/TK02F	TK05B/TK05F	BC4F	BC58F
616	617	618	619	619	620	621	622	623	624	625	626	626



PUNTE-MASCHI SVASATORI	MASCHI, FILIERRE E PORTAUTENSILI					EDILIZIA					LEGNO			CODOLO ESAGONALE 1/4"		
MAHMCRB	M0B	GAB	TCB	C5B	VAB	BW1B	BW6B	BW16B	BW8B	W05B	BMB	BMPRB	BMPB	BH2B	BWHB	BMHB
635	636	636	635	637	637	638	638	639	639	640	651	651	652	657	657	657

ESPOSITORI



METALLO	MASCHI E FILIERE	EDILIZIA	CERAMICA	LEGNO	MISTE	INSERTI E PORTAINSERTI	SEGHE A TAZZA
627	636	641	645	653	656	659	661

IMPIANTI 664

ESPOSITORI VUOTI E ACCESSORI 670



MANUALE PER LA RIPARAZIONE DI FILETTATURE

powercoil® by celesa	INSERTI FILETTATI	677	loksert® by celesa	INSERTI DI BLOCAGGIO CON CHIAVE	747
tapsert® by celesa	INSERTI AUTOFILETTANTI	755	e-z sert® by celesa	INSERTI PIENI CON SIGILLANTE ANAEROBICO	761
t-sert by celesa	INSERTI T-SERT CON TESTA SVASATA	763	wallsert by celesa	NEW IL NUOVO WALLSERT CONSENTE IL SEMPLICE ANCORAGGIO DI ELEMENTI FILETTATI	765
rivetsert by celesa	DADI PER RIVETTI	767	ROTA THREAD® by celesa	FRESE ROTATIVE CBN PER LA RIPARAZIONE DI FILETTATURE	775
BLUE-MASTER® by celesa	FRESE ROTATIVE CBN PER LA RIPARAZIONE DI FILETTATURE	778	silbertool® by celesa	RIPARATORE DI FILETTATURE ESTERNE MEDIANTE LAMINAZIONE	779
POWERBLOCK	ADESIVI E SIGILLANTI ANAEROBICI PER FILETTATURE	782			

BLUE-MASTER®
by celesa



PUNTE PER METALLO

PUNTE ELICOIDALI CILINDRICHE DIN 338

DIN 338





	BC2	BC82	BC02	BC9	BC5	BC99	BC58	BC16	BC66	BC15	BC18
MATERIALE	HSS	HSS	HSS-G	HSS	HSSCo 5%	HSSCo 5%	HSSCo 8%	HSS	HSS	HSS	HSS
TIPO DI AFFILATURA											
ANGOLO DI TAGLIO	118°	118°	118°	118°	135°	135°	135°	135°	118°	118°	118°
ELICA	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	40° "W"	15° "H"	30° "N"	30° "N"
FINITURA	OX	BRILLANTE	DORATO OX	OX	DORATO	DORATO	DORATO	BRILLANTE	BRILLANTE	OX	TiN
APPLICAZIONE	70 Kg/mm²	70 Kg/mm²	Plus	12,70	120 Kg/mm²	12,70	120 Kg/mm²	Al	OTTONE		PRODUZIONE
Ø mm — L1 x L2	€	€	€	€	€	€	€	€	€	€	€
0,20 — 19 x 2,50	4,76				5,86						
0,25 — 19 x 3	4,70				5,69						
0,30 — 19 x 3	3,50				5,02						
0,35 — 19 x 4	3,78				5,02						
0,40 — 20 x 5	3,31				5,01						
0,45 — 20 x 5	3,70				5,17						
0,50 — 22 x 6	2,51				3,47						3,57
0,55 — 24 x 7	2,88				4,83						
0,60 — 24 x 7	2,88				3,88						3,37
0,65 — 26 x 8	2,88				4,17						
0,70 — 28 x 9	2,88				3,86						3,14
0,75 — 28 x 9	2,39				3,56						3,10
0,80 — 30 x 10	2,44				3,14						2,96
0,85 — 30 x 10	2,44				3,60						
0,90 — 32 x 11	2,44				3,34						2,96
0,95 — 32 x 11	2,44				3,40						
1,00 — 34 x 12	1,69	1,69	2,05		2,62		3,96	2,41	2,99	3,00	2,28
1,05 — 34 x 12	1,88	1,88									
1,10 — 36 x 14	1,88	1,88			2,79						2,42
1,15 — 36 x 14	1,80	1,80									
1,19 — 3/64"	1,67				2,83						
1,20 — 38 x 16	1,88	1,88			2,79						2,42
1,25 — 38 x 16	1,49	1,49			3,02		4,50	2,86	3,35		2,26
1,30 — 38 x 16	1,67	1,67			2,79						2,32
1,35 — 40 x 18	1,66	1,66									
1,40 — 40 x 18	1,66	1,66			2,79						2,32
1,45 — 40 x 18	1,66	1,66									
1,50 — 40 x 18	1,29	1,29	1,90		2,39		3,73	2,30	2,96	3,11	2,05
1,55 — 43 x 20	1,56										

PUNTE ELICOIDALI CILINDRICHE DIN 338



10 U. Ø 0,20 -Ø 10,50 mm

6 U. Ø 10,60 -Ø 14 mm

1 U. Ø 14,10 -Ø 20 mm

1 U. BC9-BC99
BC7-BC98-BC42



	BTX	TTX	BC51	BC95	BC55	BC57	BC50	BC7	BC98	BC42
MATERIALE	HSSCo 5%	HSS	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	PMD	PMD	MD
TIPO DI AFFILATURA	Ø≥3	Ø≥3								
ANGOLO DI TAGLIO	135°	135°	135°	130°	135°	135°	118°	118°	135°	135°
ELICA	38° "S"	38° "S"	30° "N"	Ø≥3	38° "S"	38° "S"	38° "N"	30° "N"	30° "N"	35° "N"
FINITURA	DORATO	TiAlSiN	TiAlN	DORATO OX	BRILLANTE	TiAlN	TiAlN	BRILLANTE	BRILLANTE	BRILLANTE
APPLICAZIONE	120 Kg/mm²	80 Kg/mm²	ALTA PRODUZIONE	INOX	INOX	INOX	INOX Plus	GHISA	70 HRc	ALTA PRODUZIONE
Ø mm / L1 x L2	€	€	€	€	€	€	€	€	€	€
0,20	19 x 2,50									
0,25	**19 x 3**									
0,30	19 x 3									
0,35	19 x 4									
0,40	20 x 5									
0,45	20 x 5									
0,50	**22 x 6**									**13,53**
0,55	24 x 7									
0,60	24 x 7									
0,65	26 x 8									
0,70	28 x 9									
0,75	**28 x 9**									
0,80	30 x 10									
0,85	30 x 10									
0,90	32 x 11									
0,95	32 x 11									
1,00	**34 x 12**		**3,57**	**3,01**	**3,64**	**6,04**				**9,06**
1,05	34 x 12									
1,10	36 x 14									**9,12**
1,15	36 x 14									
1,19	3/64"									
1,20	38 x 16				**4,75**	**5,80**				**9,12**
1,25	**38 x 16**									
1,30	38 x 16									**9,12**
1,35	40 x 18									
1,40	40 x 18									**9,12**
1,45	40 x 18									
1,50	**40 x 18**		**3,37**	**2,86**	**2,96**	**6,03**				**9,28**
1,55	43 x 20									

PUNTE ELICOIDALI CILINDRICHE DIN 338

DIN 338





		BC2	BC82	BC02	BC9	BC5	BC99	BC58	BC16	BC66	BC15	BC18
	MATERIALE	HSS	HSS	HSS-G	HSS	HSSCo 5%	HSSCo 5%	HSSCo 8%	HSS	HSS	HSS	HSS
	TIPO DI AFFILATURA											
	ANGOLO DI TAGLIO	118°	118°	118°	118°	135°	135°	135°	135°	118°	118°	118°
	ELICA	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	40° "W"	15° "H"	30° "N"	30° "N"
	FINITURA	OX	BRILLANTE	DORATO OX	OX	DORATO	DORATO	DORATO	BRILLANTE	BRILLANTE	OX	TiN
	APPLICAZIONE	70 Kg/mm²	70 Kg/mm²	Plus	12,70	120 Kg/mm²	12,70	120 Kg/mm²	Al	OTTONE		PRODUZIONE
Ø mm	L1 x L2	€	€	€	€	€	€	€	€	€	€	€
1,59	1/16"	1,41				2,89						
1,60	43 x 20	1,56	1,56			2,79						2,33
1,65	43 x 20	1,56	1,56									
1,70	43 x 20	1,56	1,56			2,79						2,32
1,75	46 x 22	1,40	1,40			3,02		4,50	2,80	4,55		2,22
1,80	46 x 22	1,38	1,38			2,73						2,18
1,85	46 x 22	1,38	1,38									
1,90	46 x 22	1,38	1,38			3,04						2,18
1,95	48 x 24	1,38										
1,98	5/64"	1,27				3,03						
2,00	49 x 24	1,17	1,17	1,39		2,27		3,73	2,30	2,69	2,67	1,79
2,05	49 x 24	1,28	1,28									
2,10	49 x 24	1,28	1,28			3,14						2,19
2,15	53 x 27	1,28										
2,20	53 x 27	1,28	1,28			3,14						2,18
2,25	53 x 27	1,21	1,21	1,48		2,99		4,50	2,78	3,11		2,10
2,30	53 x 27	1,48	1,48			3,14						2,33
2,35	53 x 27	1,48	1,48									
2,38	3/32"	1,41				2,98						
2,40	57 x 30	1,48	1,48			3,14						2,33
2,45	57 x 30	1,48										
2,50	57 x 30	1,26	1,26	1,56		2,34		3,56	2,31	2,72	2,67	1,88
2,55	57 x 30	1,52	1,52									
2,60	57 x 30	1,52	1,52			3,03						2,32
2,65	57 x 30	1,52										
2,70	61 x 33	1,52	1,52	1,88		3,03						2,32
2,75	61 x 33	1,33	1,33	1,60		2,99		3,85	2,78	3,65		2,26
2,78	7/64"	1,44				2,89						
2,80	61 x 33	1,52	1,52	1,88		3,04						2,32

PUNTE ELICOIDALI CILINDRICHE DIN 338



10 U. Ø 0,20 -Ø 10,50 mm

6 U. Ø 10,60 -Ø 14 mm

1 U. Ø 14,10 -Ø 20 mm

1 U. BC9-BC99
BC7-BC98-BC42



	BTX	TTX	BC51	BC95	BC55	BC57	BC50	BC7	BC98	BC42
MATERIALE	HSSCo 5%	HSS	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	PMD	PMD	MD
TIPO DI AFFILATURA	Ø≥3	Ø≥3								
ANGOLO DI TAGLIO	135°	135°	135°	130°	135°	135°	118°	118°	135°	135°
ELICA	38° "S"	38° "S"	30° "N"	Ø≥3	38° "S"	38° "S"	38° "N"	30° "N"	30° "N"	35° "N"
FINITURA	DORATO	TiAlSiN	TiAlN	DORATO OX	BRILLANTE	TiAlN	TiAlN	BRILLANTE	BRILLANTE	BRILLANTE
APPLICAZIONE	120 Kg/mm²	80 Kg/mm²	ALTA PRODUZIONE	INOX	INOX	INOX	INOX Plus	GHISA	70 HRc	ALTA PRODUZIONE
Ø mm / L1 x L2	€	€	€	€	€	€	€	€	€	€
1,59 1/16"										
1,60 43 x 20					3,09					9,84
1,65 43 x 20										
1,70 43 x 20					2,80					10,18
1,75 46 x 22				2,86						
1,80 46 x 22					2,96	5,95				10,56
1,85 46 x 22										
1,90 46 x 22					3,24					11,44
1,95 48 x 24										
1,98 5/64"										
2,00 49 x 24			3,52	2,86	3,12	5,68	6,02	19,11		11,76
2,05 49 x 24										
2,10 49 x 24					3,94			20,75		15,37
2,15 53 x 27										
2,20 53 x 27					3,75	6,42		20,75		16,51
2,25 53 x 27				2,86				20,75		
2,30 53 x 27					3,73			20,75		16,51
2,35 53 x 27										
2,38 3/32"										
2,40 57 x 30					4,50			20,75		16,82
2,45 57 x 30										
2,50 57 x 30			3,53	2,86	3,06	6,81	6,70	19,11		14,37
2,55 57 x 30										
2,60 57 x 30					3,37			20,75		20,74
2,65 57 x 30										
2,70 61 x 33					3,01			20,75		20,74
2,75 61 x 33			3,67	2,86				20,75		
2,78 7/64"										
2,80 61 x 33					3,13	8,56		20,75		20,74

PUNTE ELICOIDALI CILINDRICHE DIN 338

DIN 338





		BC2	BC82	BC02	BC9	BC5	BC99	BC58	BC16	BC66	BC15	BC18
	MATERIALE	HSS	HSS	HSS-G	HSS	HSSCo 5%	HSSCo 5%	HSSCo 8%	HSS	HSS	HSS	HSS
	TIPO DI AFFILATURA											
	ANGOLO DI TAGLIO	118°	118°	118°	118°	135°	135°	135°	135°	118°	118°	118°
	ELICA	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	40° "W"	15° "H"	30° "N"	30° "N"
	FINITURA	OX	BRILLANTE	DORATO OX	OX	DORATO	DORATO	DORATO	BRILLANTE	BRILLANTE	OX	TiN
	APPLICAZIONE	70 Kg/mm²	70 Kg/mm²	Plus	12,70	120 Kg/mm²	12,70	120 Kg/mm²	Al	OTTONE		PRODUZIONE
Ø mm	L1 x L2	€	€	€	€	€	€	€	€	€	€	€
2,85	61 x 33	1,53										
2,90	61 x 33	1,52	1,52			3,03						2,32
2,95	61 x 33	1,69										
3,00	61 x 33	1,27	1,27	1,39		2,28		3,44	2,28	2,99	2,38	1,79
3,05	65 x 36	1,66										
3,10	65 x 36	1,48	1,48	1,59		2,93		4,84				2,27
3,15	65 x 36	1,66										
3,17	1/8"	1,40				2,77						
3,20	65 x 36	1,48	1,48	1,59		2,90		4,84	2,78			2,27
3,25	65 x 36	1,48	1,48	1,59		2,93		4,44	2,78	3,65		2,58
3,30	65 x 36	1,48	1,48	1,59		2,90		4,84	2,78			2,27
3,35	65 x 36	1,88										
3,40	70 x 39	1,88	1,88	2,09		3,04						2,79
3,45	70 x 39	1,90										
3,50	70 x 39	1,43	1,43	1,59		2,90		4,36	2,73	3,24	2,95	2,32
3,55	70 x 39	1,98										
3,57	9/64"	1,85				3,47						
3,60	70 x 39	1,98	1,98	2,19		3,65						2,58
3,65	70 x 39	1,98										
3,70	70 x 39	1,98	1,98	2,19		3,65						2,58
3,75	70 x 39	1,66	1,66	1,88		3,46		5,27	3,40	4,75		2,73
3,80	75 x 43	2,03	2,03	2,31		3,65						2,59
3,85	75 x 43	2,04										
3,90	75 x 43	2,02	2,02	2,31		3,65						2,58
3,95	75 x 43	2,02										
3,97	5/32"	1,91				3,47						
4,00	75 x 43	1,59	1,59	1,83		3,09		4,71	2,96	3,48	3,00	2,50
4,05	75 x 43	2,02										
4,10	75 x 43	1,82	1,82	2,02		3,46		5,81	3,35			2,80

PUNTE ELICOIDALI CILINDRICHE DIN 338



10 U. Ø 0,20 -Ø 10,50 mm

6 U. Ø 10,60 -Ø 14 mm

1 U. Ø 14,10 -Ø 20 mm

1 U. BC9-BC99
BC7-BC98-BC42



	BTX	TTX	BC51	BC95	BC55	BC57	BC50	BC7	BC98	BC42
MATERIALE	HSSCo 5%	HSS	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	PMD	PMD	MD
TIPO DI AFFILATURA	Ø≥3	Ø≥3								
ANGOLO DI TAGLIO	135°	135°	135°	130°	135°	135°	118°	118°	135°	135°
ELICA	38° "S"	38° "S"	30° "N"	Ø≥3	38° "S"	38° "S"	38° "N"	30° "N"	30° "N"	35° "N"
FINITURA	DORATO	TiAlSiN	TiAlN	DORATO OX	BRILLANTE	TiAlN	TiAlN	BRILLANTE	BRILLANTE	BRILLANTE
APPLICAZIONE	120 Kg/mm²	80 Kg/mm²	ALTA PRODUZIONE	INOX	INOX	INOX	INOX Plus	GHISA	70 HRc	ALTA PRODUZIONE
Ø mm / L1 x L2	€	€	€	€	€	€	€	€	€	€
2,85	61 x 33										
2,90	61 x 33					3,16			20,75		20,74
2,95	61 x 33										
3,00	**61 x 33**	**2,48**	**2,35**	**3,45**	**2,80**	**2,31**	**5,56**	**6,71**	**17,52**	**15,41**	**15,13**
3,05	65 x 36										
3,10	65 x 36					2,38	6,84		19,84		20,18
3,15	65 x 36										
3,17	1/8"										
3,20	65 x 36	3,03	2,87		3,47	2,38	6,89		19,84		20,18
3,25	**65 x 36**				3,47				19,84		
3,30	65 x 36	3,04	2,88	4,32	3,48	2,84	6,92	8,15	19,84	17,43	18,07
3,35	65 x 36										
3,40	70 x 39					2,89			19,84		22,11
3,45	70 x 39										
3,50	**70 x 39**	**2,98**	**2,83**	**4,35**	**3,38**	**3,00**	**6,87**	**7,81**	**18,29**	**16,08**	**18,98**
3,55	70 x 39										
3,57	9/64"										
3,60	70 x 39					3,14			19,84	17,43	23,19
3,65	70 x 39										
3,70	70 x 39					3,04			19,84		23,19
3,75	**70 x 39**				3,68				19,84		
3,80	75 x 43					3,04	9,02		19,84		24,30
3,85	75 x 43										
3,90	75 x 43					3,11			19,84		24,30
3,95	75 x 43										
3,97	5/32"										
4,00	**75 x 43**	**3,25**	**3,09**	**4,44**	**3,68**	**3,19**	**7,18**	**8,79**	**16,91**	**15,65**	**20,22**
4,05	75 x 43										
4,10	75 x 43					3,27	7,73		20,75		24,67

PUNTE ELICOIDALI CILINDRICHE DIN 338

DIN 338





		BC2	BC82	BC02	BC9	BC5	BC99	BC58	BC16	BC66	BC15	BC18
	MATERIALE	HSS	HSS	HSS-G	HSS	HSSCo 5%	HSSCo 5%	HSSCo 8%	HSS	HSS	HSS	HSS
	TIPO DI AFFILATURA											
	ANGOLO DI TAGLIO	118°	118°	118°	118°	135°	135°	135°	135°	118°	118°	118°
	ELICA	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	40° "W"	15° "H"	30° "N"	30° "N"
	FINITURA	OX	BRILLANTE	DORATO OX	OX	DORATO	DORATO	DORATO	BRILLANTE	BRILLANTE	OX	TiN
	APPLICAZIONE	70 Kg/mm²	70 Kg/mm²	Plus	12,70	120 Kg/mm²	12,70	120 Kg/mm²	Al	OTTONE		PRODUZIONE
Ø mm	L1 x L2	€	€	€	€	€	€	€	€	€	€	€
4,15	75 x 43	2,02										
4,20	75 x 43	1,82	1,82	2,02		3,46		5,81	3,35			2,80
4,25	**75 x 43**	1,82	1,82	2,03		3,46		5,27	3,73	5,20		2,80
4,30	80 x 47	2,40	2,40	2,72		3,65						2,97
4,35	80 x 47	2,36										
4,37	11/64"	2,26				3,47						
4,40	80 x 47	2,40	2,40	2,72		3,65						2,94
4,45	80 x 47	2,40										
4,50	**80 x 47**	1,88	1,88	2,05		3,56		5,27	3,29	4,28	3,47	2,81
4,55	80 x 47	2,43										
4,60	80 x 47	2,43	2,43			4,07						3,12
4,65	80 x 47	2,43										
4,70	80 x 47	2,45	2,45	2,72		4,07						3,12
4,75	**80 x 47**	2,06	2,06	2,45		3,86		5,82	4,18	5,84		3,01
4,76	3/16"	2,05				3,62						
4,80	86 x 52	2,72	2,72	2,97		4,08		6,42				3,31
4,85	86 x 52	2,64										
4,90	86 x 52	2,64	2,64	2,90		4,08						3,28
4,95	86 x 52	2,65										
5,00	**86 x 52**	1,98	1,98	2,25		3,72		5,65	3,51	4,66	3,94	2,86
5,05	86 x 52	2,73	2,73									
5,10	86 x 52	2,72	2,72	3,01		4,47		6,91	4,26		5,55	3,30
5,15	86 x 52	2,73										
5,16	13/64"	2,62				3,81						
5,20	86 x 52	2,72	2,72	3,01		4,47		6,91				3,29
5,25	**86 x 52**	2,55	2,55	2,88		4,38		6,64	5,01	6,97		3,27
5,30	86 x 52	3,38	3,38	3,74		4,45						3,71
5,35	93 x 57	3,37										
5,40	93 x 57	3,38	3,38			4,47						3,71

PUNTE ELICOIDALI CILINDRICHE DIN 338



10 U. Ø 0,20 -Ø 10,50 mm

6 U. Ø 10,60 -Ø 14 mm

1 U. Ø 14,10 -Ø 20 mm

1 U. BC9-BC99
BC7-BC98-BC42



	BTX	TTX	BC51	BC95	BC55	BC57	BC50	BC7	BC98	BC42
MATERIALE	HSSCo 5%	HSS	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	PMD	PMD	MD
TIPO DI AFFILATURA	Ø≥3	Ø≥3								
ANGOLO DI TAGLIO	135°	135°	135°	130°	135°	135°	118°	118°	135°	135°
ELICA	38° "S"	38° "S"	30° "N"	Ø≥3	38° "S"	38° "S"	38° "N"	30° "N"	30° "N"	35° "N"
FINITURA	DORATO	TiAlSiN	TiAlN	DORATO OX	BRILLANTE	TiAlN	TiAlN	BRILLANTE	BRILLANTE	BRILLANTE
APPLICAZIONE	120 Kg/mm²	80 Kg/mm²	ALTA PRODUZIONE	INOX	INOX	INOX	INOX Plus	GHISA	70 HRc	ALTA PRODUZIONE
Ø mm / L1 x L2	€	€	€	€	€	€	€	€	€	€
4,15	75 x 43										
4,20	75 x 43	3,63	3,44	4,67	4,10	3,35	7,71	9,41	20,75	18,24	25,09
4,25	**75 x 43**			**4,67**					**20,75**		
4,30	80 x 47					3,49	8,24		20,75	18,24	33,05
4,35	80 x 47										
4,37	11/64"										
4,40	80 x 47					3,49			20,75	18,24	33,71
4,45	80 x 47										
4,50	**80 x 47**	3,63	3,44	4,75	4,10	3,56	7,89	9,05	17,29	15,05	27,76
4,55	80 x 47										
4,60	80 x 47					4,06			20,75		30,02
4,65	80 x 47										
4,70	80 x 47					4,06			20,75		30,02
4,75	**80 x 47**				4,22				20,75		
4,76	3/16"										
4,80	86 x 52					4,27	8,74		20,75		32,82
4,85	86 x 52										
4,90	86 x 52					4,27			20,75		32,82
4,95	86 x 52										
5,00	**86 x 52**	4,30	4,09	4,86	4,38	3,84	8,17	9,06	17,81	14,75	31,42
5,05	86 x 52										
5,10	86 x 52					4,18	9,17		21,79	18,05	36,86
5,15	86 x 52										
5,16	13/64"										
5,20	86 x 52					4,47	9,26		21,79		34,92
5,25	**86 x 52**				5,16				21,79		
5,30	86 x 52					4,43			21,79		34,92
5,35	93 x 57										
5,40	93 x 57					4,47			21,79		39,53

PUNTE ELICOIDALI CILINDRICHE DIN 338

DIN 338





		BC2	BC82	BC02	BC9	BC5	BC99	BC58	BC16	BC66	BC15	BC18
	MATERIALE	HSS	HSS	HSS-G	HSS	HSSCo 5%	HSSCo 5%	HSSCo 8%	HSS	HSS	HSS	HSS
	TIPO DI AFFILATURA											
	ANGOLO DI TAGLIO	118°	118°	118°	118°	135°	135°	135°	135°	118°	118°	118°
	ELICA	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	40° "W"	15° "H"	30° "N"	30° "N"
	FINITURA	OX	BRILLANTE	DORATO OX	OX	DORATO	DORATO	DORATO	BRILLANTE	BRILLANTE	OX	TiN
	APPLICAZIONE	70 Kg/mm²	70 Kg/mm²	Plus	12,70	120 Kg/mm²	12,70	120 Kg/mm²	Al	OTTONE		PRODUZIONE
Ø mm	L1 x L2	€	€	€	€	€	€	€	€	€	€	€
5,45	93 x 57	3,38										
5,50	93 x 57	2,65	2,65	2,97		4,71		7,12	4,48	5,62	5,07	3,31
5,55	93 x 57	3,59										
5,56	7/32"	3,41				5,31						
5,60	93 x 57	3,62	3,62	3,98		5,57		8,81				3,86
5,65	93 x 57	3,59										
5,70	93 x 57	3,62	3,62	3,98		5,57		8,81				3,86
5,75	93 x 57	3,46	3,46	3,87		5,30		7,97	6,14	7,60		3,83
5,80	93 x 57	3,37	3,37	3,82		5,57		8,81				3,71
5,85	93 x 57	3,38										
5,90	93 x 57	3,37	3,37	3,80		5,57						3,71
5,95	15/64"	3,19				5,80						
6,00	93 x 57	2,78	2,78	3,06		5,05		7,59	4,74	6,10	5,61	3,37
6,05	101 x 63	3,92										
6,10	101 x 63	3,92	3,92	4,44		6,25						6,11
6,15	101 x 63	3,92										
6,20	101 x 63	3,92	3,92	4,44		6,25						6,11
6,25	101 x 63	3,71	3,71	4,14		5,89		8,89	6,14	8,54		6,77
6,30	101 x 63	4,12	4,12			6,25						6,14
6,35	1/4"	2,96				5,95						
6,40	101 x 63	4,27	4,27			6,26						6,17
6,45	101 x 63	4,15										
6,50	101 x 63	3,20	3,20	3,64		6,05		8,87	5,53	6,80	7,01	5,77
6,55	101 x 63	5,20										
6,60	101 x 63	5,15	5,15			7,54						7,01
6,65	101 x 63	5,20										
6,70	101 x 63	5,19	5,19	5,76		7,54		11,35				7,01
6,75	109 x 69	3,90	3,90	4,39		7,07		10,37	7,40	9,17		6,89
6,80	109 x 69	3,90	3,90	4,39		7,07		11,35	6,50			6,90

PUNTE ELICOIDALI CILINDRICHE DIN 338



10 U. Ø 0,20 -Ø 10,50 mm

6 U. Ø 10,60 -Ø 14 mm

1 U. Ø 14,10 -Ø 20 mm

1 U. BC9-BC99
BC7-BC98-BC42



	BTX	TTX	BC51	BC95	BC55	BC57	BC50	BC7	BC98	BC42
MATERIALE	HSSCo 5%	HSS	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	PMD	PMD	MD
TIPO DI AFFILATURA	Ø≥3	Ø≥3								
ANGOLO DI TAGLIO	135°	135°	135°	130°	135°	135°	118°	118°	135°	135°
ELICA	38° "S"	38° "S"	30° "N"	Ø≥3	38° "S"	38° "S"	38° "N"	30° "N"	30° "N"	35° "N"
FINITURA	DORATO	TiAlSiN	TiAlN	DORATO OX	BRILLANTE	TiAlN	TiAlN	BRILLANTE	BRILLANTE	BRILLANTE
APPLICAZIONE	120 Kg/mm²	80 Kg/mm²	ALTA PRODUZIONE	INOX	INOX	INOX	INOX Plus	GHISA	70 HRc	ALTA PRODUZIONE

Ø mm	L1 x L2	€	€	€	€	€	€	€	€	€	€
5,45	93 x 57										
5,50	93 x 57	5,45	5,17	5,50	5,55	5,57	9,67	10,10	19,01	15,72	35,93
5,55	93 x 57										
5,56	7/32"										
5,60	93 x 57					5,72			22,79		41,52
5,65	93 x 57										
5,70	93 x 57					5,61			22,79		41,52
5,75	93 x 57				5,73	5,67			22,79		
5,80	93 x 57					5,72	11,07		22,79		41,52
5,85	93 x 57										
5,90	93 x 57					5,67			22,79		41,52
5,95	15/64"										
6,00	93 x 57	5,80	5,50	5,63	5,90	5,85	10,18	10,78	20,25	16,74	39,56
6,05	101 x 63										
6,10	101 x 63				7,23	6,42			23,32		51,43
6,15	101 x 63										
6,20	101 x 63					6,63	15,97		23,32		51,43
6,25	101 x 63				6,89				23,32		
6,30	101 x 63					6,58			23,32		51,43
6,35	1/4"										
6,40	101 x 63					6,58			23,32		51,43
6,45	101 x 63										
6,50	101 x 63	6,77	6,43	10,51	6,89	6,58	15,70	12,70	20,64	17,07	49,37
6,55	101 x 63										
6,60	101 x 63					7,08			24,70		63,94
6,65	101 x 63										
6,70	101 x 63					7,08			24,70		63,94
6,75	109 x 69			11,12	7,78				24,70		
6,80	109 x 69	7,87	7,47	11,12	8,12	7,25	17,26		24,70	20,44	59,36

PUNTE ELICOIDALI CILINDRICHE DIN 338

DIN 338





Ø mm	L1 x L2	BC2 €	BC82 €	BC02 €	BC9 €	BC5 €	BC99 €	BC58 €	BC16 €	BC66 €	BC15 €	BC18 €
	MATERIALE	HSS	HSS	HSS-G	HSS	HSSCo 5%	HSSCo 5%	HSSCo 8%	HSS	HSS	HSS	HSS
	TIPO DI AFFILATURA											
	ANGOLO DI TAGLIO	118°	118°	118°	118°	135°	135°	135°	135°	118°	118°	118°
	ELICA	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	40° "W"	15° "H"	30° "N"	30° "N"
	FINITURA	OX	BRILLANTE	DORATO OX	OX	DORATO	DORATO	DORATO	BRILLANTE	BRILLANTE	OX	TiN
	APPLICAZIONE	70 Kg/mm²	70 Kg/mm²	Plus	12,70	120 Kg/mm²	12,70	120 Kg/mm²	Al	OTTONE		PRODUZIONE
6,85	109 x 69	5,73										
6,90	109 x 69	5,74	5,74			7,54						7,07
6,95	109 x 69	5,74										
7,00	109 x 69	3,90	3,90	4,39		6,64		9,28	6,05	7,15	7,86	6,18
7,05	109 x 69	6,03										
7,10	109 x 69	6,02	6,02			9,58						8,10
7,14	9/32"	5,77				9,03						
7,15	109 x 69	6,04										
7,20	109 x 69	6,02	6,02			9,58					8,28	8,10
7,25	109 x 69	4,82	4,82	5,52		9,02		12,60	9,77	12,28		7,57
7,30	109 x 69	6,03	6,03			9,60						8,10
7,35	109 x 69	6,02										
7,40	109 x 69	6,03	6,03	6,77		9,60						8,10
7,45	109 x 69	6,21										
7,50	109 x 69	4,12	4,12	4,61		7,08		9,90	6,42	8,45	8,35	7,07
7,54	19/64"	6,74				10,95						
7,55	117 x 75	7,15										
7,60	117 x 75	7,11	7,11			11,55						8,38
7,65	117 x 75	7,15										
7,70	117 x 75	7,11	7,11			11,52						8,38
7,75	117 x 75	5,49	5,49	6,14		10,93		15,29	12,43	17,83		8,08
7,80	117 x 75	7,22	7,22	8,12		11,52						8,35
7,85	117 x 75	7,23										
7,90	117 x 75	7,22	7,22	8,12		11,58						8,35
7,94	5/16"	6,16				10,92						
7,95	117 x 75	7,22										
8,00	117 x 75	4,75	4,75	5,33		8,29		11,59	7,54	8,97	9,54	7,39
8,05	117 x 75	7,42										
8,10	117 x 75	7,42	7,42			11,07						9,75

PUNTE ELICOIDALI CILINDRICHE DIN 338



10 U. Ø 0,20 -Ø 10,50 mm

6 U. Ø 10,60 -Ø 14 mm

1 U. Ø 14,10 -Ø 20 mm

1 U. BC9-BC99
BC7-BC98-BC42



	BTX	TTX	BC51	BC95	BC55	BC57	BC50	BC7	BC98	BC42
MATERIALE	HSSCo 5%	HSS	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	PMD	PMD	MD
TIPO DI AFFILATURA	Ø≥3	Ø≥3								
ANGOLO DI TAGLIO	135°	135°	135°	130°	135°	135°	118°	118°	135°	135°
ELICA	38° "S"	38° "S"	30° "N"	Ø≥3	38° "S"	38° "S"	38° "N"	30° "N"	30° "N"	35° "N"
FINITURA	DORATO	TiAlSiN	TiAlN	DORATO OX	BRILLANTE	TiAlN	TiAlN	BRILLANTE	BRILLANTE	BRILLANTE
APPLICAZIONE	120 Kg/mm²	80 Kg/mm²	ALTA PRODUZIONE	INOX	INOX	INOX	INOX Plus	GHISA	70 HRc	ALTA PRODUZIONE

Ø mm	L1 x L2	€	€	€	€	€	€	€	€	€	€
6,85	109 x 69										
6,90	109 x 69					7,34			24,70	20,44	63,94
6,95	109 x 69										
7,00	**109 x 69**	**7,40**	**7,03**	**11,07**	**7,54**	**7,61**	**16,76**	**13,28**	**21,93**	**19,10**	**57,46**
7,05	109 x 69										
7,10	109 x 69					7,97			26,62	22,01	73,12
7,14	9/32"										
7,15	109 x 69										
7,20	109 x 69					8,03	20,03		26,62		73,12
7,25	**109 x 69**				**7,66**				26,62		
7,30	109 x 69					8,35			26,62		73,12
7,35	109 x 69										
7,40	109 x 69					8,48			26,62		73,12
7,45	109 x 69										
7,50	**109 x 69**	**7,85**	**7,45**	**11,37**	**8,00**	**8,46**	**17,48**	**14,75**	**23,07**	**20,06**	**62,97**
7,54	19/64"										
7,55	117 x 75										
7,60	117 x 75					8,98			28,59		73,12
7,65	117 x 75										
7,70	117 x 75					9,48			28,59		73,12
7,75	**117 x 75**				**9,23**				28,59		
7,80	117 x 75					9,48	20,74		28,59		73,12
7,85	117 x 75										
7,90	117 x 75					9,48			28,59		73,12
7,94	5/16"										
7,95	117 x 75										
8,00	**117 x 75**	**9,20**	**8,74**	**12,06**	**9,37**	**9,55**	**19,29**	**14,67**	**25,77**	**22,42**	**70,32**
8,05	117 x 75										
8,10	117 x 75					9,57			30,53		85,08

PUNTE ELICOIDALI CILINDRICHE DIN 338

DIN 338





	BC2	BC82	BC02	BC9	BC5	BC99	BC58	BC16	BC66	BC15	BC18
MATERIALE	HSS	HSS	HSS-G	HSS	HSSCo 5%	HSSCo 5%	HSSCo 8%	HSS	HSS	HSS	HSS
TIPO DI AFFILATURA											
ANGOLO DI TAGLIO	118°	118°	118°	118°	135°	135°	135°	135°	118°	118°	118°
ELICA	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	40° "W"	15° "H"	30° "N"	30° "N"
FINITURA	OX	BRILLANTE	DORATO OX	OX	DORATO	DORATO	DORATO	BRILLANTE	BRILLANTE	OX	TiN
APPLICAZIONE	70 Kg/mm²	70 Kg/mm²	Plus	12,70	120 Kg/mm²	12,70	120 Kg/mm²	Al	OTTONE		PRODUZIONE
Ø mm — L1 x L2	€	€	€	€	€	€	€	€	€	€	€
8,15 — 117 x 75	7,39										
8,20 — 117 x 75	7,34	7,34	8,30		11,07						9,75
8,25 — 117 x 75	5,52	5,52	6,21		10,39		14,59	12,05	16,81		8,79
8,30 — 117 x 75	7,64	7,64	8,63		11,07						9,86
8,33 — 21/64"	7,28				10,44						
8,35 — 117 x 75	7,69										
8,40 — 117 x 75	7,71	7,71			11,07						9,86
8,45 — 117 x 75	7,71										
8,50 — 117 x 75	5,11	5,11	5,74		8,62		12,07	7,85	10,40	10,34	8,40
8,55 — 125 x 81	9,69										
8,60 — 125 x 81	9,43	9,43	10,85		14,05						10,57
8,65 — 125 x 81	9,62										
8,70 — 125 x 81	9,43	9,43			14,05		20,46				10,57
8,73 — 11/32"	6,98				12,46						
8,75 — 125 x 81	7,43	7,43	8,32		13,20		18,62	14,83	19,44		9,96
8,80 — 125 x 81	9,47	9,47	10,93		14,05						10,58
8,85 — 125 x 81	9,66										
8,90 — 125 x 81	9,65	9,65			14,05						10,58
8,95 — 125 x 81	9,66										
9,00 — 125 x 81	6,24	6,24	6,98		10,97		15,40	9,93	10,95	12,15	9,12
9,05 — 125 x 81	9,79										
9,10 — 125 x 81	9,70	9,70			15,59						11,28
9,13 — 23/64"	9,24				14,75						
9,15 — 125 x 81	9,79										
9,20 — 125 x 81	9,79	9,79			15,57						11,28
9,25 — 125 x 81	7,49	7,49	8,45		14,55		20,58	15,44	26,44		10,05
9,30 — 125 x 81	9,07	9,07			15,58						10,89
9,35 — 125 x 81	12,03										
9,40 — 125 x 81	9,07	9,07			15,53						10,89
9,45 — 125 x 81	9,08										

PUNTE ELICOIDALI CILINDRICHE DIN 338



10 U. Ø 0,20 -Ø 10,50 mm

6 U. Ø 10,60 -Ø 14 mm

1 U. Ø 14,10 -Ø 20 mm

1 U. BC9-BC99
BC7-BC98-BC42



	BTX	TTX	BC51	BC95	BC55	BC57	BC50	BC7	BC98	BC42
MATERIALE	HSSCo 5%	HSS	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	PMD	PMD	MD
TIPO DI AFFILATURA	Ø≥3	Ø≥3								
ANGOLO DI TAGLIO	135°	135°	135°	130°	135°	135°	118°	118°	135°	135°
ELICA	38° "S"	38° "S"	30° "N"	Ø≥3	38° "S"	38° "S"	38° "N"	30° "N"	30° "N"	35° "N"
FINITURA	DORATO	TiAlSiN	TiAlN	DORATO OX	BRILLANTE	TiAlN	TiAlN	BRILLANTE	BRILLANTE	BRILLANTE
APPLICAZIONE	120 Kg/mm²	80 Kg/mm²	ALTA PRODUZIONE	INOX	INOX	INOX	INOX Plus	GHISA	70 HRc	ALTA PRODUZIONE
Ø mm / L1 x L2	€	€	€	€	€	€	€	€	€	€
8,15 117 x 75										
8,20 117 x 75					9,61	24,94		30,53		85,08
8,25 117 x 75				9,58				30,53		
8,30 117 x 75					9,97			30,53		85,08
8,33 21/64"										
8,35 117 x 75										
8,40 117 x 75					9,97			30,53		85,08
8,45 117 x 75										
8,50 117 x 75	9,60	9,13	13,50	9,79	10,29	20,96	16,18	27,12	22,42	81,81
8,55 125 x 81										
8,60 125 x 81					11,44			32,78	27,13	109,56
8,65 125 x 81										
8,70 125 x 81					11,49			32,78		109,56
8,73 11/32"										
8,75 125 x 81				11,44				32,78		
8,80 125 x 81					11,85	27,49		32,78		109,56
8,85 125 x 81										
8,90 125 x 81					11,83			32,78		109,56
8,95 125 x 81										
9,00 125 x 81	12,24	11,62	14,95	12,46	12,24	24,67	17,90	29,41	24,32	88,92
9,05 125 x 81										
9,10 125 x 81				12,60	12,33			35,44		126,39
9,13 23/64"										
9,15 125 x 81										
9,20 125 x 81				12,82	12,55	28,45		35,44		126,39
9,25 125 x 81				12,91				35,44		
9,30 125 x 81				12,91	13,75			35,44		126,39
9,35 125 x 81										
9,40 125 x 81					13,75			35,44		126,39
9,45 125 x 81										

PUNTE ELICOIDALI CILINDRICHE DIN 338

DIN 338





	BC2	BC82	BC02	BC9	BC5	BC99	BC58	BC16	BC66	BC15	BC18
MATERIALE	HSS	HSS	HSS-G	HSS	HSSCo 5%	HSSCo 5%	HSSCo 8%	HSS	HSS	HSS	HSS
TIPO DI AFFILATURA											
ANGOLO DI TAGLIO	118°	118°	118°	118°	135°	135°	135°	135°	118°	118°	118°
ELICA	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	40° "W"	15° "H"	30° "N"	30° "N"
FINITURA	OX	BRILLANTE	DORATO OX	OX	DORATO	DORATO	DORATO	BRILLANTE	BRILLANTE	OX	TiN
APPLICAZIONE	70 Kg/mm²	70 Kg/mm²	Plus	12,70	120 Kg/mm²	12,70	120 Kg/mm²	Al	OTTONE		PRODUZIONE
Ø mm / L1 x L2	€	€	€	€	€	€	€	€	€	€	€
9,50 / 125 x 81	6,80	6,80	7,57		11,34		15,93	10,33	12,81	13,38	9,49
9,52 / 3/8"	6,36				10,80						
9,55 / 133 x 87	11,69										
9,60 / 133 x 87	11,54	11,54			18,27						12,49
9,65 / 133 x 87	11,69										
9,70 / 133 x 87	11,54	11,54			18,27						12,54
9,75 / 133 x 87	8,42	8,42	9,54		17,19		24,25	16,38	21,94		10,66
9,80 / 133 x 87	11,31	11,31			18,27						12,32
9,85 / 133 x 87	11,42										
9,90 / 133 x 87	11,42	11,42	12,46		18,27						12,32
9,92 / 25/64"	10,89				17,23						
9,95 / 133 x 87	11,39										
10,00 / 133 x 87	7,29	7,29	8,15	12,27	12,55		17,60	11,43	13,33	14,71	9,86
10,10 / 133 x 87	9,79	9,79	10,96		21,00						
10,20 / 133 x 87	9,08	9,08	10,17		17,70		31,81				15,26
10,25 / 133 x 87	10,15	10,15	12,58	16,19	21,67		31,81	18,74	32,71		17,37
10,30 / 133 x 87	11,42	11,42	12,71		21,05						
10,32 / 13/32"	10,89				19,95						
10,40 / 133 x 87	11,42	11,42			21,00						
10,50 / 133 x 87	9,06	9,06	10,15	13,81	17,71	25,32	25,89	15,24	16,01	18,62	14,17
10,60 / 133 x 87	12,54	12,54			24,41						
10,70 / 142 x 94	12,54	12,54			24,41						
10,72 / 27/64"	11,15				23,93						
10,75 / 142 x 94	11,71	11,71	12,95	18,28	25,37		37,03	21,93	29,87		17,92
10,80 / 142 x 94	13,88	13,88			24,41						
10,90 / 142 x 94	13,88	13,88			24,47						
11,00 / 142 x 94	10,58	10,58	11,87	15,57	19,56	27,34	28,56	16,54	17,82	22,41	14,90
11,10 / 142 x 94	14,17	14,17			27,86						
11,11 / 7 / 16"	13,49				26,29						
11,20 / 142 x 94	14,17	14,17			27,86						

PUNTE ELICOIDALI CILINDRICHE DIN 338



10 U. Ø 0,20 -Ø 10,50 mm

6 U. Ø 10,60 -Ø 14 mm

1 U. Ø 14,10 -Ø 20 mm

1 U. BC9-BC99
BC7-BC98-BC42



	BTX	TTX	BC51	BC95	BC55	BC57	BC50	BC7	BC98	BC42
MATERIALE	HSSCo 5%	HSS	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	PMD	PMD	MD
TIPO DI AFFILATURA	Ø≥3	Ø≥3								
ANGOLO DI TAGLIO	135°	135°	135°	130°	135°	135°	118°	118°	135°	135°
ELICA	38° "S"	38° "S"	30° "N"	Ø≥3	38° "S"	38° "S"	38° "N"	30° "N"	30° "N"	35° "N"
FINITURA	DORATO	TiAlSiN	TiAlN	DORATO OX	BRILLANTE	TiAlN	TiAlN	BRILLANTE	BRILLANTE	BRILLANTE
APPLICAZIONE	120 Kg/mm²	80 Kg/mm²	ALTA PRODUZIONE	INOX	INOX	INOX	INOX Plus	GHISA	70 HRc	ALTA PRODUZIONE

Ø mm	L1 x L2	€	€	€	€	€	€	€	€	€	€
9,50	125 x 81	12,65	12,02	15,17	12,91	13,38	25,32	18,94	32,07	26,54	104,16
9,52	3/8"										
9,55	133 x 87										
9,60	133 x 87					13,75			38,03		114,90
9,65	133 x 87										
9,70	133 x 87					14,57			38,03		114,90
9,75	133 x 87								38,03		
9,80	133 x 87					14,63	31,08		38,03		114,90
9,85	133 x 87										
9,90	133 x 87					14,42			38,03		114,90
9,92	25/64"										
9,95	133 x 87										
10,00	133 x 87	13,93	13,24	15,91	14,20	15,48	26,96	19,67	32,90	27,22	109,18
10,10	133 x 87								42,60		
10,20	133 x 87	18,80	17,85	27,43	19,17	16,17	38,15	26,05	42,60	35,24	130,67
10,25	133 x 87				19,18				42,60		
10,30	133 x 87								42,60	35,24	
10,32	13/32"										
10,40	133 x 87								42,60		
10,50	133 x 87	18,81	17,86	27,41	19,18	17,54	39,00	25,36	35,56	34,97	122,02
10,60	133 x 87								45,30		
10,70	142 x 94								45,30		
10,72	27/64"										
10,75	142 x 94				20,86				45,30		
10,80	142 x 94					18,04			45,30		
10,90	142 x 94								45,30		
11,00	142 x 94	20,76	19,72	28,56	21,17	19,41	41,45	28,06	40,31	35,11	149,10
11,10	142 x 94				21,89				48,51		
11,11	7 / 16"										
11,20	142 x 94				23,64	20,13			48,51		

PUNTE ELICOIDALI CILINDRICHE DIN 338

DIN 338





	BC2	BC82	BC02	BC9	BC5	BC99	BC58	BC16	BC66	BC15	BC18
MATERIALE	HSS	HSS	HSS-G	HSS	HSSCo 5%	HSSCo 5%	HSSCo 8%	HSS	HSS	HSS	HSS
TIPO DI AFFILATURA											
ANGOLO DI TAGLIO	118°	118°	118°	118°	135°	135°	135°	135°	118°	118°	118°
ELICA	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	40° "W"	15° "H"	30° "N"	30° "N"
FINITURA	OX	BRILLANTE	DORATO OX	OX	DORATO	DORATO	DORATO	BRILLANTE	BRILLANTE	OX	TiN
APPLICAZIONE	70 Kg/mm²	70 Kg/mm²	Plus	12,70	120 Kg/mm²	12,70	120 Kg/mm²	Al	OTTONE		PRODUZIONE
Ø mm / L1 x L2	€	€	€	€	€	€	€	€	€	€	€
11,25	142 x 94	12,02	12,02	13,95	19,35	28,33		42,13	28,86	39,35		18,08
11,30	142 x 94	13,88	13,88			27,84						
11,40	142 x 94	13,88	13,88			27,86						
11,50	142 x 94	11,31	11,31	12,70	16,50	23,41	29,56	36,52	19,55	21,62	24,49	15,89
11,51	29/64"	10,76				22,20						
11,60	142 x 94	13,88	13,88			28,76						
11,70	142 x 94	13,88	13,88			28,76						
11,75	142 x 94	12,02	12,02	14,36	21,08	29,88		44,40	28,31	39,35		18,08
11,80	142 x 94	14,77	14,77			28,76						
11,90	151 x 101	14,77	14,77			28,76						
11,91	15/32"	14,49				27,26						
12,00	151 x 101	12,64	12,64	14,16	17,98	24,95	31,68	39,12	20,97	23,19	27,37	17,38
12,10	151 x 101	17,73	17,73			33,41						
12,20	151 x 101	17,73	17,73			33,41						
12,25	151 x 101	15,65	15,65	17,60	22,88	33,90		55,79	39,36	53,62		23,08
12,30	151 x 101	16,19	16,19			33,41						
12,40	151 x 101	16,19	16,19			33,41						
12,50	151 x 101	13,89	13,89	15,52	19,51	30,49	38,56	46,63	23,33	26,31	30,00	19,42
12,60	151 x 101	17,31	17,31			34,75						
12,70	1/2"	15,32				33,07						
12,75	151 x 101	15,39	15,39	17,58	23,58	36,09		52,42	43,45	59,55		22,90
12,80	151 x 101	19,31	19,31			34,75						
12,90	151 x 101	19,31	19,31			34,75						
13,00	151 x 101	14,34	14,34	15,99	20,04	31,20	40,26	49,77	23,67	28,29	30,58	20,75
13,10	151 x 101	19,77	19,77									
13,20	151 x 101	19,77	19,77									
13,25	160 x 108	22,55	22,55		28,66	43,18						
13,30	160 x 108	30,60	30,60									
13,40	160 x 108	30,60	30,60									
13,49	17/32"	19,36				32,74						

PUNTE ELICOIDALI CILINDRICHE DIN 338



10 U. Ø 0,20 -Ø 10,50 mm

6 U. Ø 10,60 -Ø 14 mm

1 U. Ø 14,10 -Ø 20 mm

1 U. BC9-BC99
BC7-BC98-BC42



	BTX	TTX	BC51	BC95	BC55	BC57	BC50	BC7	BC98	BC42
MATERIALE	HSSCo 5%	HSS	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	PMD	PMD	MD
TIPO DI AFFILATURA	Ø≥3	Ø≥3								
ANGOLO DI TAGLIO	135°	135°	135°	130°	135°	135°	118°	118°	135°	135°
ELICA	38° "S"	38° "S"	30° "N"	Ø≥3	38° "S"	38° "S"	38° "N"	30° "N"	30° "N"	35° "N"
FINITURA	DORATO	TiAlSiN	TiAlN	DORATO OX	BRILLANTE	TiAlN	TiAlN	BRILLANTE	BRILLANTE	BRILLANTE
APPLICAZIONE	120 Kg/mm²	80 Kg/mm²	ALTA PRODUZIONE	INOX	INOX	INOX	INOX Plus	GHISA	70 HRc	ALTA PRODUZIONE

Ø mm	L1 x L2	€	€	€	€	€	€	€	€	€	€
11,25	142 x 94				23,80				48,51		
11,30	142 x 94				24,26				48,51		
11,40	142 x 94								48,51		
11,50	142 x 94	23,90	22,70	30,33	24,37	19,82	43,28	30,47	43,91	40,36	167,25
11,51	29/64"										
11,60	142 x 94								53,51	44,26	
11,70	142 x 94								53,51		
11,75	142 x 94				25,70				53,51		
11,80	142 x 94					21,86			53,51		
11,90	151 x 101								53,51		
11,91	15/32"										
12,00	151 x 101	25,63	24,34	31,38	26,12	23,19	48,60	30,83	46,11	40,16	202,81
12,10	151 x 101								56,32	46,60	
12,20	151 x 101								56,32		
12,25	151 x 101								56,32		
12,30	151 x 101								56,32		
12,40	151 x 101								56,32		
12,50	151 x 101	31,27	29,71	38,79	29,11	26,97	51,94	34,90	52,39		241,92
12,60	151 x 101								59,50		
12,70	1/2"								59,50		
12,75	151 x 101								59,50		
12,80	151 x 101								59,50		
12,90	151 x 101								59,50		
13,00	151 x 101	31,73	30,14	39,38	29,54	27,72	51,46	36,47	58,09		224,01
13,10	151 x 101										
13,20	151 x 101										
13,25	160 x 108										
13,30	160 x 108										
13,40	160 x 108										
13,49	17/32"										

PUNTE ELICOIDALI CILINDRICHE DIN 338

DIN 338





		BC2	BC82	BC02	BC9	BC5	BC99	BC58	BC16	BC66	BC15	BC18
	MATERIALE	HSS	HSS	HSS-G	HSS	HSSCo 5%	HSSCo 5%	HSSCo 8%	HSS	HSS	HSS	HSS
	TIPO DI AFFILATURA											
	ANGOLO DI TAGLIO	118°	118°	118°	118°	135°	135°	135°	135°	118°	118°	118°
	ELICA	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	40° "W"	15° "H"	30° "N"	30° "N"
	FINITURA	OX	BRILLANTE	DORATO OX	OX	DORATO	DORATO	DORATO	BRILLANTE	BRILLANTE	OX	TiN
	APPLICAZIONE	70 Kg/mm²	70 Kg/mm²	Plus	12,70	120 Kg/mm²	12,70	120 Kg/mm²	Al	OTTONE		PRODUZIONE
Ø mm	L1 x L2	€	€	€	€	€	€	€	€	€	€	€
13,50	160 x 108	20,33	20,33	22,81	26,74	34,37	45,95	54,87				27,13
13,60	160 x 108	30,60	30,60									
13,70	160 x 108	30,60	30,60									
13,75	160 x 108	22,81	22,81		30,74	43,18						
13,80	160 x 108	29,18	29,18									
13,89	35/64"	27,90				38,64						
13,90	160 x 108	29,30	29,30									
14,00	160 x 108	21,76	21,76	24,41	28,39	33,99	50,21	54,25				28,03
14,10	169 x 114	31,22										
14,20	169 x 114	31,22										
14,25	169 x 114	25,53	25,53		32,84	56,69						
14,29	9/16"	30,25				42,73						
14,30	169 x 114	31,77										
14,40	169 x 114	31,77										
14,50	169 x 114	23,51	23,51		30,70	48,19	64,19	76,91				29,06
14,60	169 x 114	32,34										
14,68	37/64"	24,32				53,99						
14,70	169 x 114	32,34										
14,75	169 x 114	25,53	25,53		37,70	56,69						
14,80	169 x 114	31,18										
14,90	169 x 114	31,18										
15,00	169 x 114	23,73	23,73	26,58	30,99	48,91	67,03	78,05				29,32
15,08	19/32"	22,61				46,59						
15,25	178 x 120	34,94			39,29	78,26						
15,48	39/64"	33,63				74,52						
15,50	178 x 120	27,80	27,80		35,79	56,57	74,80	90,26				30,92
15,75	178 x 120	35,31			40,72	75,89						
15,88	5/8"	27,51				55,93						
16,00	178 x 120	28,87	28,87		37,11	58,72	77,04	93,82				32,53
16,25	184 x 125	51,91			47,75							

PUNTE ELICOIDALI CILINDRICHE DIN 338



10 U. Ø 0,20 -Ø 10,50 mm

6 U. Ø 10,60 -Ø 14 mm

1 U. Ø 14,10 -Ø 20 mm

1 U. BC9-BC99
BC7-BC98-BC42



	BTX	TTX	BC51	BC95	BC55	BC57	BC50	BC7	BC98	BC42
MATERIALE	HSSCo 5%	HSS	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	PMD	PMD	MD
TIPO DI AFFILATURA	Ø≥3	Ø≥3								
ANGOLO DI TAGLIO	135°	135°	135°	130°	135°	135°	118°	118°	135°	135°
ELICA	38° "S"	38° "S"	30° "N"	Ø≥3	38° "S"	38° "S"	38° "N"	30° "N"	30° "N"	35° "N"
FINITURA	DORATO	TiAlSiN	TiAlN	DORATO OX	BRILLANTE	TiAlN	TiAlN	BRILLANTE	BRILLANTE	BRILLANTE
APPLICAZIONE	120 Kg/mm²	80 Kg/mm²	ALTA PRODUZIONE	INOX	INOX	INOX	INOX Plus	GHISA	70 HRc	ALTA PRODUZIONE

Ø mm	L1 x L2	€	€	€	€	€	€	€	€	€	€
13,50	**160 x 108**								**64,06**		
13,60	160 x 108										
13,70	**160 x 108**										
13,75	**160 x 108**										
13,80	160 x 108										
13,89	35/64"										
13,90	160 x 108										
14,00	**160 x 108**								**67,61**		
14,10	169 x 114										
14,20	169 x 114										
14,25	**169 x 114**										
14,29	9/16"										
14,30	169 x 114										
14,40	169 x 114										
14,50	**169 x 114**								**72,76**		
14,60	169 x 114										
14,68	37/64"										
14,70	169 x 114										
14,75	**169 x 114**										
14,80	169 x 114										
14,90	169 x 114										
15,00	**169 x 114**								**77,43**		
15,08	19/32"										
15,25	178 x 120										
15,48	39/64"										
15,50	**178 x 120**								**90,59**		
15,75	178 x 120										
15,88	5/8"										
16,00	**178 x 120**								**89,30**		
16,25	184 x 125										

PUNTE ELICOIDALI CILINDRICHE DIN 338

DIN 338





		BC2	BC82	BC02	BC9	BC5	BC99	BC58	BC16	BC66	BC15	BC18
	MATERIALE	HSS	HSS	HSS-G	HSS	HSSCo 5%	HSSCo 5%	HSSCo 8%	HSS	HSS	HSS	HSS
	TIPO DI AFFILATURA											
	ANGOLO DI TAGLIO	118°	118°	118°	118°	135°	135°	135°	135°	118°	118°	118°
	ELICA	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	30° "N"	40° "W"	15° "H"	30° "N"	30° "N"
	FINITURA	OX	BRILLANTE	DORATO OX	OX	DORATO	DORATO	DORATO	BRILLANTE	BRILLANTE	OX	TiN
	APPLICAZIONE	70 Kg/mm²	70 Kg/mm²	Plus	12,70	120 Kg/mm²	12,70	120 Kg/mm²	Al	OTTONE		PRODUZIONE
Ø mm	L1 x L2	€	€	€	€	€	€	€	€	€	€	€
16,50	184 x 125	33,63	33,63		41,56	67,05	87,86					
16,75	184 x 125	54,37			46,85							
17,00	184 x 125	33,66	33,66		41,56	67,05	87,54					
17,25	191 x 130	56,42			52,78							
17,50	191 x 130	38,58	38,58		47,29	74,29	95,88					
17,75	191 x 130	62,48			55,64							
18,00	191 x 130	40,87	40,87		49,86	80,93	106,65					
18,25	198 x 135	61,30			67,92							
18,50	198 x 135	45,33	45,33		55,01	89,38	119,02					
18,75	198 x 135	62,99			62,83							
19,00	198 x 135	45,33	45,33		55,01	89,38	117,98					
19,25	205 x 140	82,32			67,07							
19,50	205 x 140	48,74	48,74		59,71	99,13	130,73					
19,75	205 x 140	80,12			75,11							
20,00	205 x 140	55,35	55,35		64,02	106,38	140,06					
20,50	205 x 140				79,85		166,74					
21,00	205 x 140				65,61		172,67					
21,50	209 x 140				78,84		190,76					
22,00	209 x 140				74,95		193,57					
22,50	214 x 140				80,16		207,04					
23,00	214 x 140				83,83		224,96					
23,50	220 x 145				88,18		249,72					
24,00	220 x 145				87,19		265,71					
24,50	225 x 150				93,94		286,27					
25,00	225 x 150				95,34		305,31					
26,00	243 x 157				127,07		345,58					
27,00	243 x 157				136,48		354,89					
28,00	253 x 167				141,20		390,97					
29,00	253 x 167				165,77		420,50					
30,00	258 x 171				174,25		435,22					

PUNTE ELICOIDALI CILINDRICHE DIN 338



10 U. Ø 0,20 -Ø 10,50 mm

6 U. Ø 10,60 -Ø 14 mm

1 U. Ø 14,10 -Ø 20 mm

1 U. BC9-BC99
BC7-BC98-BC42



	BTX	TTX	BC51	BC95	BC55	BC57	BC50	BC7	BC98	BC42
MATERIALE	HSSCo 5%	HSS	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	PMD	PMD	MD
TIPO DI AFFILATURA	Ø≥3	Ø≥3								
ANGOLO DI TAGLIO	135°	135°	135°	130°	135°	135°	118°	118°	135°	135°
ELICA	38° "S"	38° "S"	30° "N"	Ø≥3	38° "S"	38° "S"	38° "N"	30° "N"	30° "N"	35° "N"
FINITURA	DORATO	TiAlSiN	TiAlN	DORATO OX	BRILLANTE	TiAlN	TiAlN	BRILLANTE	BRILLANTE	BRILLANTE
APPLICAZIONE	120 Kg/mm²	80 Kg/mm²	ALTA PRODUZIONE	INOX	INOX	INOX	INOX Plus	GHISA	70 HRc	ALTA PRODUZIONE
Ø mm / L1 x L2	€	€	€	€	€	€	€	€	€	€
16,50	184 x 125							125,78		
16,75	184 x 125									
17,00	**184 x 125**							**103,95**		
17,25	191 x 130									
17,50	191 x 130							**141,03**		
17,75	191 x 130									
18,00	**191 x 130**							**116,55**		
18,25	198 x 135									
18,50	198 x 135							**168,13**		
18,75	198 x 135									
19,00	**198 x 135**							**138,93**		
19,25	205 x 140									
19,50	205 x 140							**191,33**		
19,75	205 x 140									
20,00	**205 x 140**							**158,13**		
20,50	205 x 140									
21,00	205 x 140									
21,50	209 x 140									
22,00	209 x 140									
22,50	214 x 140									
23,00	214 x 140									
23,50	220 x 145									
24,00	220 x 145									
24,50	225 x 150									
25,00	**225 x 150**									
26,00	243 x 157									
27,00	243 x 157									
28,00	253 x 167									
29,00	253 x 167									
30,00	**258 x 171**									

PUNTE MICROMETRICI IN METALLO DURO E REFRIGERAZIONE INTERNA DIN6537K/DIN6537L

NEW

Ref. BC84
Ref. BC97

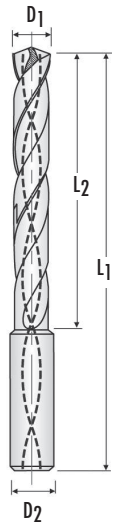
MD | TOL D_1 m7 | TOL D_2 h6 | 135° | 30° "N" | TiAlN | HARDOX 450 | ALTA PRODUZIONE

3xD



5xD





Punta speciale per HARDOX 450

DIN 6537K	D_1 mm	D_2 mm	L_1 mm	L_2 mm	BC84 €
BC840100	1,00	3	47	6,0	52,37
BC840110	1,10	3	47	6,6	52,37
BC840120	1,20	3	47	7,2	55,67
BC840130	1,30	3	47	7,8	55,67
BC840140	1,40	3	47	8,4	55,67
BC840150	1,50	3	47	9,0	55,67
BC840160	1,60	3	47	9,6	58,71
BC840170	1,70	3	47	10,2	58,71
BC840180	1,80	3	52	10,8	58,71
BC840190	1,90	3	52	11,4	58,71
BC840200	2,00	4	59	12,0	66,44
BC840210	2,10	4	59	12,6	66,44
BC840220	2,20	4	59	13,2	66,44
BC840230	2,30	4	59	13,8	66,44
BC840240	2,40	4	59	14,4	71,62
BC840250	2,50	4	59	15,0	71,62
BC840260	2,60	4	59	15,6	71,62
BC840270	2,70	4	59	16,2	71,62
BC840280	2,80	4	59	16,8	74,15
BC840290	2,90	4	59	17,4	74,15

DIN 6537L	D_1 mm	D_2 mm	L_1 mm	L_2 mm	BC97 €
BC970100	1,00	3	47	8,0	53,11
BC970110	1,10	3	47	8,8	55,67
BC970120	1,20	3	52	10,8	58,71
BC970130	1,30	3	52	11,7	60,76
BC970140	1,40	3	52	12,6	60,76
BC970150	1,50	3	52	13,5	60,76
BC970160	1,60	3	52	14,4	66,44
BC970170	1,70	3	52	15,3	66,44
BC970180	1,80	3	52	16,2	66,44
BC970190	1,90	3	52	17,1	66,44
BC970200	2,00	4	63	18,0	74,15
BC970210	2,10	4	63	18,9	74,15
BC970220	2,20	4	63	19,8	74,15
BC970230	2,30	4	63	20,7	75,46
BC970240	2,40	4	63	21,6	77,99
BC970250	2,50	4	63	22,5	77,99
BC970260	2,60	4	67	23,4	80,52
BC970270	2,70	4	67	24,3	80,52
BC970280	2,80	4	67	25,2	83,14
BC970290	2,90	4	67	26,1	83,14

PUNTE IN METALLO DURO E REFRIGERAZIONE INTERNA DIN6537K

Ref. BC84
Ref. BC83

3xD | DIN 6537K | MD | TOL D_1 m7 | TOL D_2 h6 | 135° | 30° "N" | TiAlN | HARDOX 450 | ALTA PRODUZIONE

Punta speciale per HARDOX 450



BC84 BC83

	D_1 mm	D_2 mm	L_1 mm	L_2 mm	BC84 €		BC83 €
BC840300	3,00	6	62	20	46,97	BC830300	80,68
BC840310	3,10	6	62	20	46,97	BC830310	80,68
BC840320	3,20	6	62	20	46,97	BC830320	80,68
BC840340	3,40	6	62	20	46,97	BC830300	80,68
BC840350	3,50	6	62	20	46,97	BC830350	80,68
BC840380	3,80	6	66	24	46,97	BC830380	80,68
BC840400	4,00	6	66	24	46,97	BC830400	80,68
BC840420	4,20	6	66	24	46,97	BC830420	80,68
BC840425	4,25	6	66	24	46,97	BC830425	80,68
BC840440	4,40	6	66	24	46,97	BC830440	80,68
BC840450	4,50	6	66	24	46,97	BC830450	80,68
BC840470	4,70	6	66	24	46,97	BC830470	80,68
BC840480	4,80	6	66	28	46,97	BC830480	80,68
BC840490	4,90	6	66	28	46,97	BC830490	80,68
BC840500	5,00	6	66	28	46,97	BC830500	80,68
BC840520	5,20	6	66	28	46,97	BC830520	80,68
BC840550	5,50	6	66	28	46,97	BC830550	80,68
BC840560	5,60	6	66	28	46,97	BC830560	80,68
BC840570	5,70	6	66	28	46,97	BC830570	80,68
BC840580	5,80	6	66	28	46,97	BC830580	80,68
BC840590	5,90	6	66	28	46,97	BC830590	80,68
BC840600	6,00	6	66	28	46,97	BC830600	80,68
BC840610	6,10	8	79	34	54,99	BC830610	98,81
BC840620	6,20	8	79	34	54,99	BC830620	98,81
BC840630	6,30	8	79	34	54,99	BC830630	98,81
BC840650	6,50	8	79	34	54,99	BC830650	98,81
BC840660	6,60	8	79	34	54,99	BC830660	98,81
BC840670	6,70	8	79	34	54,99	BC830670	98,81
BC840680	6,80	8	79	34	54,99	BC830680	98,81
BC840690	6,90	8	79	34	54,99	BC830690	98,81
BC840700	7,00	8	79	34	54,99	BC830700	98,81
BC840710	7,10	8	79	41	54,99	BC830710	98,81
BC840740	7,40	8	79	41	54,99	BC830740	98,81
BC840750	7,50	8	79	41	54,99	BC830750	98,81
BC840780	7,80	8	79	41	54,99	BC830780	98,81
BC840790	7,90	8	79	41	54,99	BC830790	98,81
BC840800	8,00	8	79	41	54,99	BC830800	98,81
BC840810	8,10	10	89	47	63,38	BC830810	110,68
BC840820	8,20	10	89	47	63,38	BC830820	110,68
BC840830	8,30	10	89	47	63,38	BC830830	110,68
BC840840	8,40	10	89	47	63,38	BC830840	110,68
BC840850	8,50	10	89	47	63,38	BC830850	110,68
BC840860	8,60	10	89	47	63,38	BC830860	110,68
BC840870	8,70	10	89	47	63,38	BC830870	110,68
BC840880	8,80	10	89	47	63,38	BC830880	110,68
BC840890	8,90	10	89	47	63,38	BC830890	110,68
BC840900	9,00	10	89	47	63,38	BC830900	110,68
BC840910	9,10	10	89	47	63,38	BC830910	110,68
BC840930	9,30	10	89	47	63,38	BC830930	110,68

	D_1 mm	D_2 mm	L_1 mm	L_2 mm	BC84 €		BC83 €
BC840940	9,4	10	89	47	63,38	BC830940	110,68
BC840950	9,5	10	89	47	63,38	BC830950	110,68
BC840960	9,6	10	89	47	63,38	BC830960	110,68
BC840970	9,7	10	89	47	63,38	BC830970	110,68
BC840980	9,8	10	89	47	63,38	BC830980	110,68
BC840990	9,9	10	89	47	63,38	BC830990	110,68
BC841000	10,0	10	89	47	63,38	BC831000	110,68
BC841020	10,2	12	102	55	95,07	BC831020	158,17
BC841040	10,4	12	102	55	95,07	BC831040	158,17
BC841050	10,5	12	102	55	95,07	BC831050	158,17
BC841060	10,6	12	102	55	95,07	BC831060	158,17
BC841070	10,7	12	102	55	95,07	BC831070	158,17
BC841080	10,8	12	102	55	95,07	BC831080	158,17
BC841100	11,0	12	102	55	95,07	BC831100	158,17
BC841110	11,1	12	102	55	95,07	BC831110	158,17
BC841120	11,2	12	102	55	95,07	BC831120	158,17
BC841130	11,3	12	102	55	95,07	BC831130	158,17
BC841150	11,5	12	102	55	95,07	BC831150	158,17
BC841170	11,7	12	102	55	95,07	BC831170	158,17
BC841180	11,8	12	102	55	95,07	BC831180	158,17
BC841200	12,0	12	102	55	95,07	BC831200	158,17
BC841210	12,1	14	107	60	126,74	BC831210	220,07
BC841230	12,3	14	107	60	126,74	BC831230	220,07
BC841240	12,4	14	107	60	126,74	BC831240	220,07
BC841250	12,5	14	107	60	126,74	BC831250	220,07
BC841270	12,7	14	107	60	126,74	BC831270	220,07
BC841280	12,8	14	107	60	126,74	BC831280	220,07
BC841300	13,0	14	107	60	126,74	BC831300	220,07
BC841310	13,1	14	107	60	126,74	BC831310	220,07
BC841330	13,3	14	107	60	126,74	BC831330	220,07
BC841350	13,5	14	107	60	126,74	BC831350	220,07
BC841370	13,7	14	107	60	126,74	BC831370	220,07
BC841380	13,8	14	107	60	126,74	BC831380	220,07
BC841400	14,0	14	107	60	126,74	BC831400	220,07
BC841450	14,5	16	115	65	158,70	BC831450	272,35
BC841470	14,7	16	115	65	158,70	BC831470	272,35
BC841480	14,8	16	115	65	158,70	BC831480	272,35
BC841500	15,0	16	115	65	158,70	BC831500	272,35
BC841550	15,5	16	115	65	158,70	BC831550	272,35
BC841600	16,0	16	115	65	158,70	BC831600	272,35
BC841650	16,5	18	123	73	242,62	BC831650	429,44
BC841700	17,0	18	123	73	242,62	BC831700	429,44
BC841750	17,5	18	123	73	242,62	BC831750	429,44
BC841800	18,0	18	123	73	242,62	BC831800	429,44
BC841850	18,5	20	131	79	296,21	BC831850	471,92
BC841900	19,0	20	131	79	296,21	BC831900	471,92
BC841950	19,5	20	131	79	296,21	BC831950	471,92
BC842000	20,0	20	131	79	296,21	BC832000	471,92

PUNTE IN METALLO DURO E REFRIGERAZIONE INTERNA DIN6537L

Ref. BC97
Ref. BC89

5xD | DIN 6537L | MD | TOL D_1 m7 | TOL D_2 h6 | 135° | 30° "N" | TiAlN | HARDOX 450 | ALTA PRODUZIONE

Punta speciale per HARDOX 450



BC97 BC89

					BC97		BC89
	D_1 mm	D_2 mm	L_1 mm	L_2 mm	€		€
BC970300	3,0	6	66	28	57,28	BC890300	95,76
BC970310	3,1	6	66	28	57,28	BC890310	95,76
BC970320	3,2	6	66	28	57,28	BC890320	95,76
BC970340	3,4	6	66	28	57,28	BC890340	95,76
BC970350	3,5	6	66	28	57,28	BC890350	95,76
BC970360	3,6	6	66	28	57,28	BC890360	95,76
BC970380	3,8	6	74	36	57,28	BC890380	95,76
BC970390	3,9	6	74	36	57,28	BC890390	95,76
BC970400	4,0	6	74	36	57,28	BC890400	98,72
BC970420	4,2	6	74	36	57,28	BC890420	98,72
BC970440	4,4	6	74	36	57,28	BC890440	98,72
BC970450	4,5	6	74	36	57,28	BC890450	98,72
BC970460	4,6	6	74	36	57,28	BC890460	98,72
BC970470	4,7	6	74	36	57,28	BC890470	98,72
BC970480	4,8	6	82	44	57,28	BC890480	98,72
BC970490	4,9	6	82	44	57,28	BC890490	98,72
BC970500	5,0	6	82	44	57,28	BC890500	98,72
BC970520	5,2	6	82	44	57,28	BC890520	98,72
BC970530	5,3	6	82	44	57,28	BC890530	98,72
BC970540	5,4	6	82	44	57,28	BC890540	98,72
BC970550	5,5	6	82	44	57,28	BC890550	98,72
BC970560	5,6	6	82	44	57,28	BC890560	98,72
BC970570	5,7	6	82	44	57,28	BC890570	98,72
BC970580	5,8	6	82	44	57,28	BC890580	98,72
BC970590	5,9	6	82	44	57,28	BC890590	98,72
BC970600	6,0	6	82	44	57,28	BC890600	98,72
BC970610	6,1	8	91	53	62,72	BC890610	110,61
BC970620	6,2	8	91	53	62,72	BC890620	110,61
BC970630	6,3	8	91	53	62,72	BC890630	110,61
BC970640	6,4	8	91	53	62,72	BC890640	110,61
BC970650	6,5	8	91	53	62,72	BC890650	110,61
BC970660	6,6	8	91	53	62,72	BC890660	110,61
BC970670	6,7	8	91	53	62,72	BC890670	110,61
BC970680	6,8	8	91	53	62,72	BC890680	110,61
BC970690	6,9	8	91	53	62,72	BC890690	110,61
BC970700	7,0	8	91	53	62,72	BC890700	110,61
BC970710	7,1	8	91	53	62,72	BC890710	110,61
BC970720	7,2	8	91	53	62,72	BC890720	110,61
BC970730	7,3	8	91	53	62,72	BC890730	110,61
BC970740	7,4	8	91	53	62,72	BC890740	110,61
BC970750	7,5	8	91	53	62,72	BC890750	110,61
BC970760	7,6	8	91	53	62,72	BC890760	110,61
BC970770	7,7	8	91	53	62,72	BC890770	110,61
BC970780	7,8	8	91	53	62,72	BC890780	110,61
BC970790	7,9	8	91	53	62,72	BC890790	110,61
BC970800	8,0	8	91	53	62,72	BC890800	110,61
BC970810	8,1	10	103	61	81,51	BC890810	128,56
BC970830	8,3	10	103	61	81,51	BC890830	128,56
BC970840	8,4	10	103	61	81,51	BC890840	128,56
BC970850	8,5	10	103	61	81,51	BC890850	128,56
BC970860	8,6	10	103	61	81,51	BC890860	128,56
BC970870	8,7	10	103	61	81,51	BC890870	128,56
BC970880	8,8	10	103	61	81,51	BC890880	128,56
BC970890	8,9	10	103	61	81,51	BC890890	128,56

					BC97		BC89
	D_1 mm	D_2 mm	L_1 mm	L_2 mm	€		€
BC970900	9,0	10	103	61	81,51	BC890900	128,56
BC970910	9,1	10	103	61	81,51	BC890910	128,56
BC970920	9,2	10	103	61	81,51	BC890920	128,56
BC970930	9,3	10	103	61	81,51	BC890930	128,56
BC970940	9,4	10	103	61	81,51	BC890940	128,56
BC970950	9,5	10	103	61	81,51	BC890950	128,56
BC970960	9,6	10	103	61	81,51	BC890960	128,56
BC970970	9,7	10	103	61	81,51	BC890970	128,56
BC970980	9,8	10	103	61	81,51	BC890980	128,56
BC970990	9,9	10	103	61	81,51	BC890990	128,56
BC971000	10,0	10	103	61	81,51	BC891000	128,56
BC971010	10,1	12	118	71	117,35	BC891010	183,06
BC971020	10,2	12	118	71	117,35	BC891020	183,06
BC971040	10,4	12	118	71	117,35	BC891040	183,06
BC971050	10,5	12	118	71	117,35	BC891050	183,06
BC971060	10,6	12	118	71	117,35	BC891060	183,06
BC971070	10,7	12	118	71	117,35	BC891070	183,06
BC971080	10,8	12	118	71	117,35	BC891080	183,06
BC971100	11,0	12	118	71	117,35	BC891100	183,06
BC971110	11,1	12	118	71	117,35	BC891110	183,06
BC971120	11,2	12	118	71	117,35	BC891120	183,06
BC971130	11,3	12	118	71	117,35	BC891130	183,06
BC971140	11,4	12	118	71	117,35	BC891140	183,06
BC971150	11,5	12	118	71	117,35	BC891150	183,06
BC971160	11,5	12	118	71	117,35	BC891160	183,06
BC971170	11,5	12	118	71	117,35	BC891170	183,06
BC971180	11,8	12	118	71	117,35	BC891180	183,06
BC971200	12,0	12	118	71	117,35	BC891200	183,06
BC971210	12,1	14	124	77	154,22	BC891210	248,64
BC971230	12,3	14	124	77	154,22	BC891230	248,64
BC971240	12,4	14	124	77	154,22	BC891240	248,64
BC971250	12,5	14	124	77	154,22	BC891250	248,64
BC971270	12,7	14	124	77	154,22	BC891270	248,64
BC971300	13,0	14	124	77	154,22	BC891300	248,64
BC971310	13,1	14	124	77	154,22	BC891310	248,64
BC971330	13,3	14	124	77	154,22	BC891330	248,64
BC971350	13,5	14	124	77	154,22	BC891350	248,64
BC971370	13,7	14	124	77	154,22	BC891370	248,64
BC971380	13,8	14	124	77	154,22	BC891380	248,64
BC971400	14,0	14	124	77	154,22	BC891400	248,64
BC971450	14,5	16	133	83	193,35	BC891450	311,82
BC971470	14,7	16	133	83	193,35	BC891470	311,82
BC971480	14,8	16	133	83	193,35	BC891480	311,82
BC971500	15,0	16	133	83	193,35	BC891500	311,82
BC971550	15,5	16	133	83	193,35	BC891550	311,82
BC971580	15,8	16	133	83	193,35	BC891580	311,82
BC971600	16,0	16	133	83	193,35	BC891600	311,82
BC971650	16,5	18	143	93	322,08	BC891650	492,31
BC971700	17,0	18	143	93	322,08	BC891700	492,31
BC971750	17,5	18	143	93	322,08	BC891750	492,31
BC971800	18,0	18	143	93	322,08	BC891800	492,31
BC971850	18,5	20	153	101	352,05	BC891850	538,11
BC971900	19,0	20	153	101	352,05	BC891900	538,11
BC971950	19,5	20	153	101	352,05	BC891950	538,11
BC972000	20,0	20	153	101	352,05	BC892000	538,11

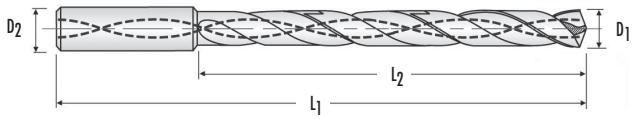
PUNTA IN METALLO DURO E REFRIGERAZIONE INTERNA DIN6537L

Ref. BC96

7xD

MD | TOL D_1 m7 | TOL D_2 h6 | 140° | 30° "N" | TiAlN | HARDOX 450 | ALTA PRODUZIONE

Punta speciale per HARDOX 450





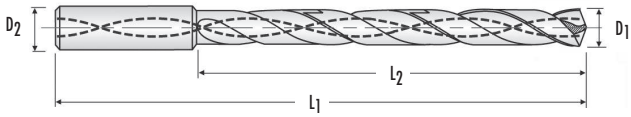
	D_1 mm	D_2 mm	L_1 mm	L_2 mm	BC96 €
BC960300	3,00	6	72	34	177,85
BC960320	3,20	6	72	34	177,85
BC960350	3,50	6	72	34	177,85
BC960380	3,80	6	81	43	177,85
BC960400	4,00	6	81	43	177,85
BC960420	4,20	6	81	43	177,85
BC960450	4,50	6	81	43	177,85
BC960480	4,80	6	95	57	177,85
BC960500	5,00	6	95	57	177,85
BC960520	5,20	6	95	57	177,85
BC960550	5,50	6	95	57	177,85
BC960560	5,60	6	95	57	177,85
BC960570	5,70	6	95	57	177,85
BC960580	5,80	6	95	57	177,85
BC960590	5,90	6	95	57	177,85
BC960600	6,00	6	95	57	177,85
BC960610	6,10	8	114	76	193,74
BC960620	6,20	8	114	76	193,74
BC960630	6,30	8	114	76	193,74
BC960650	6,50	8	114	76	193,74
BC960660	6,60	8	114	76	193,74
BC960680	6,80	8	114	76	193,74
BC960690	6,90	8	114	76	193,74
BC960700	7,00	8	114	76	193,74
BC960710	7,10	8	114	76	193,74
BC960740	7,40	8	114	76	193,74
BC960750	7,50	8	114	76	193,74
BC960780	7,80	8	114	76	193,74
BC960800	8,00	8	114	76	193,74
BC960810	8,10	10	142	95	262,34
BC960840	8,40	10	142	95	262,34
BC960850	8,50	10	142	95	262,34
BC960860	8,60	10	142	95	262,34
BC960870	8,70	10	142	95	262,34
BC960880	8,80	10	142	95	262,34
BC960900	9,00	10	131	87	262,34
BC960930	9,30	10	142	95	262,34
BC960950	9,50	10	142	95	262,34
BC960960	9,60	10	142	95	262,34
BC960980	9,80	10	142	95	262,34
BC961000	10,00	10	142	95	262,34
BC961020	10,20	12	162	114	345,86
BC961040	10,40	12	162	114	345,86
BC961050	10,50	12	162	114	345,86
BC961060	10,60	12	162	114	345,86
BC961080	10,80	12	162	114	345,86
BC961100	11,00	12	162	114	345,86
BC961120	11,20	12	162	114	345,86
BC961150	11,50	12	162	114	345,86
BC961180	11,80	12	162	114	345,86
BC961200	12,00	12	162	114	345,86

PUNTA IN METALLO DURO E REFRIGERAZIONE INTERNA DIN6537L

Ref. BXX

12xD | DIN 6537L | MD | TOL D_1 m7 | TOL D_2 h6 | 140° | 30° "N" | TiAlN | HARDOX 450 | ALTA PRODUZIONE

Punta speciale per HARDOX 450







	D_1 mm	D_2 mm	L_1 mm	L_2 mm	BXX €
BXX0300	3,0	6	92	54	206,07
BXX0320	3,2	6	92	54	206,07
BXX0330	3,3	6	92	54	206,07
BXX0350	3,5	6	92	54	206,07
BXX0370	3,7	6	92	54	206,07
BXX0380	3,8	6	102	64	206,07
BXX0390	3,9	6	102	64	206,07
BXX0400	4,0	6	102	64	206,07
BXX0420	4,2	6	102	64	206,07
BXX0430	4,3	6	102	64	206,07
BXX0440	4,4	6	102	64	219,84
BXX0450	4,5	6	102	64	219,84
BXX0460	4,6	6	102	64	219,84
BXX0470	4,7	6	102	64	219,84
BXX0480	4,8	6	116	78	219,84
BXX0490	4,9	6	116	78	219,84
BXX0500	5,0	6	116	78	219,84
BXX0510	5,1	6	116	78	219,84
BXX0520	5,2	6	116	78	219,84
BXX0530	5,3	6	116	78	219,84
BXX0540	5,4	6	116	78	219,84
BXX0550	5,5	6	116	78	219,84
BXX0560	5,6	6	116	78	219,84
BXX0570	5,7	6	116	78	219,84
BXX0580	5,8	6	116	78	219,84
BXX0590	5,9	6	116	78	219,84
BXX0600	6,0	6	116	78	219,84
BXX0610	6,1	8	146	108	269,31
BXX0620	6,2	8	146	108	269,31
BXX0650	6,5	8	146	108	269,31
BXX0660	6,6	8	146	108	269,31
BXX0670	6,7	8	146	108	269,31
BXX0680	6,8	8	146	108	285,77
BXX0690	6,9	8	146	108	285,77
BXX0700	7,0	8	146	108	285,77

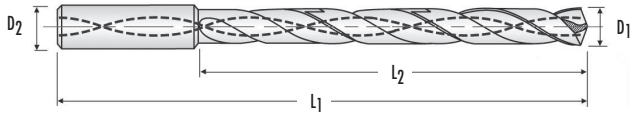
	D_1 mm	D_2 mm	L_1 mm	L_2 mm	BXX €
BXX0740	7,4	8	146	108	285,77
BXX0750	7,5	8	146	108	285,77
BXX0770	7,7	8	146	108	285,77
BXX0780	7,8	8	146	108	315,42
BXX0800	8,0	8	146	108	319,57
BXX0820	8,2	10	162	120	373,14
BXX0850	8,5	10	162	120	373,14
BXX0880	8,8	10	162	120	373,14
BXX0900	9,0	10	162	120	373,14
BXX0950	9,5	10	162	120	373,14
BXX0980	9,8	10	162	120	373,14
BXX0990	9,9	10	162	120	373,14
BXX1000	10,0	10	162	120	373,14
BXX1010	10,1	12	204	156	522,37
BXX1020	10,2	12	204	156	522,37
BXX1030	10,3	12	204	156	522,37
BXX1050	10,5	12	204	156	522,37
BXX1080	10,8	12	204	156	522,37
BXX1100	11,0	12	204	156	522,37
BXX1120	11,2	12	204	156	522,37
BXX1140	11,4	12	204	156	522,37
BXX1150	11,5	12	204	156	522,37
BXX1180	11,8	12	204	156	522,37
BXX1200	12,0	12	204	156	522,37
BXX1250	12,5	14	230	182	683,11
BXX1280	12,8	14	230	182	683,11
BXX1300	13,0	14	230	182	683,11
BXX1350	13,5	14	230	182	683,11
BXX1380	13,8	14	230	182	683,11
BXX1400	14,0	14	230	182	683,11
BXX1450	14,5	16	260	208	889,71
BXX1500	15,0	16	260	208	889,71
BXX1550	15,5	16	260	208	889,71
BXX1600	16,0	16	260	208	889,71

PUNTA IN METALLO DURO E REFRIGERAZIONE INTERNA DIN6537L

Ref. BXL
Ref. BXXL

DIN 6537L | MD | TOL D_1 m7 | TOL D_2 h6 | 140° | 30° "N" | TiAlN | HARDOX 450 | ALTA PRODUZIONE

Punta speciale per HARDOX 450





15xD

	D_1 mm	D_2 mm	L_1 mm	L_2 mm	BXL €
BXL0300	3,0	6	100	60	279,60
BXL0320	3,2	6	100	60	279,60
BXL0330	3,3	6	100	60	279,60
BXL0350	3,5	6	100	60	279,60
BXL0380	3,8	6	108	68	279,60
BXL0390	3,9	6	108	68	279,60
BXL0400	4,0	6	108	68	279,60
BXL0420	4,2	6	115	78	311,34
BXL0450	4,5	6	115	78	311,34
BXL0500	5,0	6	125	84	320,02
BXL0550	5,5	6	130	92	325,63
BXL0590	5,9	6	140	100	325,63
BXL0600	6,0	6	140	100	325,63
BXL0650	6,5	8	145	108	427,81
BXL0680	6,8	8	170	130	486,52
BXL0700	7,0	8	170	130	486,52
BXL0750	7,5	8	170	130	486,52
BXL0780	7,8	8	170	130	486,52
BXL0800	8,0	8	170	130	486,52
BXL0850	8,5	10	208	163	659,68
BXL0900	9,0	10	208	163	659,68
BXL0950	9,5	10	208	163	659,68
BXL0980	9,8	10	208	163	659,68
BXL1000	10,0	10	208	163	659,68
BXL1050	10,5	12	245	195	847,76
BXL1100	11,0	12	245	195	847,76
BXL1150	11,5	12	245	195	847,76
BXL1180	11,8	12	245	195	847,76
BXL1200	12,0	12	245	195	847,76
BXL1250	12,5	14	280	230	1.161,34
BXL1300	13,0	14	280	230	1.161,34
BXL1400	14,0	14	280	230	1.161,34
BXL1500	15,0	16	310	260	1.414,23

20xD

	D_1 mm	D_2 mm	L_1 mm	L_2 mm	BXXL €
BXXL0300	3,0	6	110	70	307,56
BXXL0350	3,5	6	136	96	307,56
BXXL0400	4,0	6	136	96	307,56
BXXL0450	4,5	6	158	118	342,47
BXXL0500	5,0	6	158	118	352,02
BXXL0510	5,1	6	180	140	358,19
BXXL0550	5,5	6	180	140	358,19
BXXL0600	6,0	6	180	140	358,19
BXXL0650	6,5	8	202	162	470,59
BXXL0700	7,0	8	202	162	535,17
BXXL0750	7,5	8	223	183	535,17
BXXL0800	8,0	8	223	183	535,17
BXXL0850	8,5	10	249	205	725,65
BXXL0900	9,0	10	249	205	725,65
BXXL1000	10,0	10	271	227	725,65

NEW



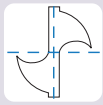
BXL BXXL

PUNTE MICROMETRICHE CON CODOLO RINFORZATO

Ref. BC30

HSS









5xD



	D1 mm	L1 mm	L2 mm	BC30 €
BC300050	0,50	43	5	3,36
BC300060	0,60	43	7	3,36
BC300070	0,70	43	7	3,36
BC300075	0,75	43	7	3,36
BC300080	0,80	43	7	3,36
BC300090	0,90	43	7	3,36
BC300095	0,95	43	7	3,36
BC300100	1,00	43	7	3,36
BC300110	1,10	43	7	3,36
BC300120	1,20	43	10	3,36
BC300125	1,25	43	10	3,36
BC300130	1,30	43	10	3,36

	D1 mm	L1 mm	L2 mm	BC30 €
BC300140	1,40	43	10	3,36
BC300150	1,50	43	10	3,36
BC300160	1,60	43	10	3,36
BC300170	1,70	43	10	3,36
BC300175	1,75	43	10	3,36
BC300180	1,80	43	10	3,36
BC300190	1,90	43	10	3,36
BC300200	2,00	43	10	3,36
BC300210	2,10	43	10	3,36
BC300220	2,20	43	10	3,36
BC300225	2,25	43	10	3,36
BC300235	2,35	43	10	3,36
BC300240	2,40	43	10	3,36

Ref. BC79

MDI



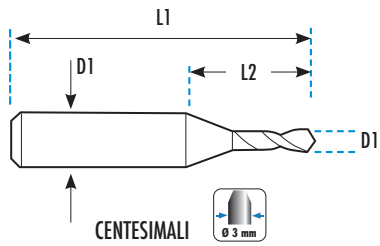








5xD



CENTESIMALI

	D1 mm	L1 mm	L2 mm	BC79 €
BC790025	0,25	38	5	28,84
BC790030	0,30	38	5	28,84
BC790035	0,35	38	5	28,84
BC790040	0,40	38	5	20,96
BC790045	0,45	38	5	20,96
BC790050	0,50	38	5	14,49
BC790055	0,55	38	5	14,49
BC790060	0,60	38	5	14,49
BC790065	0,65	38	5	13,07
BC790070	0,70	38	10	13,07
BC790075	0,75	38	10	13,07
BC790080	0,80	38	10	13,07
BC790085	0,85	38	10	13,07
BC790090	0,90	38	10	13,07
BC790095	0,95	38	10	13,07
BC790100	1,00	38	10	13,07
BC790105	1,05	38	10	13,07
BC790110	1,10	38	10	13,07
BC790115	1,15	38	10	13,07
BC790120	1,20	38	10	13,07
BC790125	1,25	38	10	13,07
BC790130	1,30	38	10	13,07
BC790135	1,35	38	10	13,07
BC790140	1,40	38	10	13,07
BC790145	1,45	38	10	13,07
BC790150	1,50	38	10	13,07
BC790155	1,55	38	10	13,07
BC790160	1,60	38	10	13,07
BC790165	1,65	38	10	16,43
BC790170	1,70	38	10	16,43

	D1 mm	L1 mm	L2 mm	BC79 €
BC790175	1,75	38	10	16,43
BC790180	1,80	38	10	16,43
BC790185	1,85	38	10	16,43
BC790190	1,90	38	10	16,43
BC790195	1,95	38	10	16,43
BC790200	2,00	38	10	16,43
BC790205	2,05	38	10	16,43
BC790210	2,10	38	10	16,43
BC790215	2,15	38	10	16,43
BC790220	2,20	38	10	16,43
BC790225	2,25	38	10	16,43
BC790230	2,30	38	10	16,43
BC790235	2,35	38	10	16,43
BC790240	2,40	38	10	16,43
BC790245	2,45	38	10	16,43
BC790250	2,50	38	10	16,43
BC790255	2,55	38	10	16,43
BC790260	2,60	38	10	16,43
BC790265	2,65	38	10	16,43
BC790270	2,70	38	10	16,43
BC790275	2,75	38	10	16,43
BC790280	2,80	38	10	16,43
BC790285	2,85	38	10	16,43
BC790290	2,90	38	10	16,43
BC790295	2,95	38	10	16,43
BC790300	3,00	38	10	16,43
BC790305	3,05	38	10	16,43
BC790310	3,10	38	10	16,43
BC790315	3,15	38	10	16,43

D1 mm	BC79 €
0,10 - 0,39	28,84
0,41 - 0,89	21,51
0,91 - 1,19	21,51
1,21 - 1,39	23,22
1,41 - 1,89	23,22
1,91 - 2,19	23,22
2,21 - 2,39	24,20
2,41 - 2,89	24,20
2,91 - 2,99	24,20

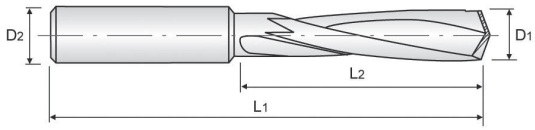


PUNTA IN METALLO DURO PER ACCIAI TEMPRATI E CORAZZATI AD ALTA RESISTENZA

Ref. BC85

70 HRc | MD | TOL D_1 h7 | TOL D_2 h6 | 140° | 15° "H" | TiAlN | HARDOX 600 | ALTA PRODUZIONE

Punta speciale per HARDOX 600





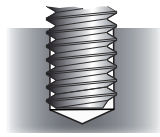
BC85

	D_1 mm	D_2 mm	L_1 mm	L_2 mm	€
BC850300	3,0	3	46	16	47,17
BC850330	3,3	4	48	18	54,14
BC850340	3,4	4	50	20	54,14
BC850350	3,5	4	50	20	54,14
BC850400	4,0	4	52	22	57,98
BC850420	4,2	6	65	25	78,42
BC850430	4,3	6	68	28	78,42
BC850440	4,4	6	68	28	78,42
BC850450	4,5	6	68	28	78,42
BC850500	5,0	6	72	32	78,42
BC850510	5,1	6	72	32	78,42
BC850520	5,2	6	72	32	78,42
BC850550	5,5	6	75	35	78,42
BC850600	6,0	6	75	35	78,42
BC850630	6,3	8	80	40	97,28*
BC850650	6,5	8	80	40	97,28
BC850680	6,8	8	85	45	97,28
BC850690	6,9	8	85	45	97,28
BC850700	7,0	8	85	45	97,28
BC850750	7,5	8	85	45	97,28
BC850800	8,0	8	98	50	97,28
BC850850	8,5	10	98	50	148,67
BC850860	8,6	10	105	57	148,67
BC850880	8,8	10	105	57	148,67
BC850900	9,0	10	105	57	148,67
BC850950	9,5	10	105	57	148,67
BC851000	10,0	10	111	63	148,67
BC851020	10,2	12	111	63	192,57
BC851030	10,3	12	111	63	225,94
BC851040	10,4	12	111	63	225,94
BC851050	10,5	12	111	63	225,94
BC851080	10,8	12	119	71	225,94
BC851100	11,0	12	119	71	225,94
BC851150	11,5	12	119	71	225,94
BC851200	12,0	12	119	71	225,94
BC851400	14,0	14	125	77	256,75

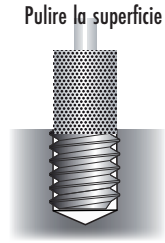
*Fino ad esaurimento scorte.

PERFORAZIONE DI VITI E MASCHI ROTTI

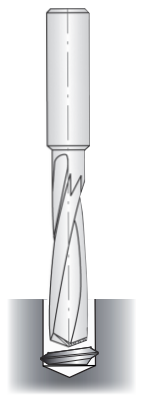
Vite rotta



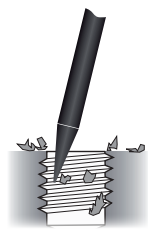
STEP 1
Pulire la superficie



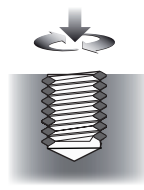
STEP 2
Forare con la punta BC85



STEP 3
Rimuovere i frammenti



STEP 4 (Opzionale)
Riparare la
filettatura con inserti



PUNTA STEP CUT FACILE FORATURA SU SUPERFICI CURVATE E INSTABILI

Ref. TK02

DIN 338 | HSS | Ø≥2,5mm | Ø≥4 | Al | Cu - Ni - Zn | PVC



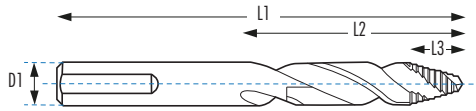






STEP CUT

Punta elicoidale HSS con geometria STEP CUT, taglio a gradino.
NUOVA Punta STEP CUT con innovativa geometria a gradini che facilita una delicata penetrazione.
Lavora comodamente, velocemente e con precisione su superfici curve, instabili o inclinate.
Maggiore precisione, grazie alla punta di centraggio che impedisce lo scivolamento all'inizio della foratura.
La geometria STEP CUT con taglio a gradini genera fori più centrati, rotondi e precisi.
Il triplo piatto di ancoraggio ANTISLIP sul codolo trasmette adeguatamente la potenza del trapano.
Permette di realizzare fori passanti in acciaio, alluminio, rame, nichel, zinco, PVC, fibra di vetro e legno.



	D1 mm	L1 mm	L2 mm	L3 mm		TK02 €
TK020100	1,0	34	12	-	10	3,42
TK020150	1,5	40	18	-	10	3,52
TK020200	2,0	49	24	-	10	3,67
TK020250	2,5	57	30	1,6	10	4,27
TK020300	3,0	61	33	1,9	10	4,48
TK020320	3,2	65	36	2,1	10	5,00
TK020330	3,3	65	36	2,2	10	5,25
TK020350	3,5	70	39	2,1	10	5,36
TK020400	4,0	75	43	2,9	10	6,34
TK020410	4,1	75	43	3,0	10	6,63
TK020420	4,2	75	43	3,0	10	6,86
TK020450	4,5	80	47	3,3	10	6,97
TK020490	4,9	76	52	3,8	10	7,47
TK020500	5,0	76	52	3,9	10	7,87
TK020510	5,1	76	52	4,0	10	8,09
TK020520	5,2	76	52	4,2	10	8,26
TK020550	5,5	93	57	4,6	10	8,33
TK020600	6,0	93	57	5,3	10	9,08
TK020650	6,5	101	63	5,8	10	10,59
TK020680	6,8	109	69	5,9	10	11,90
TK020700	7,0	109	69	6,4	10	12,11
TK020750	7,5	109	69	6,9	10	14,16
TK020800	8,0	117	75	7,6	10	14,63
TK020850	8,5	117	75	8,2	10	17,36
TK020900	9,0	125	81	8,8	10	19,17
TK020950	9,5	125	81	9,3	10	20,68
TK021000	10,0	133	87	10,0	10	22,05
TK021020	10,2	133	87	9,9	10	23,12
TK021050	10,5	133	87	10,7	10	24,02
TK021100	11,0	142	94	11,3	6	26,52
TK021150	11,5	142	94	12,0	6	28,85
TK021200	12,0	151	101	12,6	6	31,48
TK021250	12,5	151	101	13,8	6	33,50
TK021300	13,0	151	101	14,7	6	36,11



PUNTA STEP CUT FACILE FORATURA SU SUPERFICI CURVATE E INSTABILI



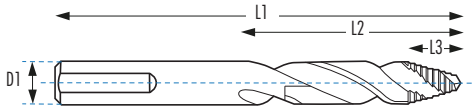
Ref. TK05

DIN 338 | HSSCo 5% | Ø≥3mm | Ø≥5 | INOX | GHISA | Cu-Ni-Zn | PVC



STEP CUT

Punta elicoidale HSSCo 5% ad Alte Prestazioni 5% STEP CUT, taglio a gradini.
NUOVA Punta STEP CUT con innovativa geometria a gradini che facilita una delicata penetrazione.
Lavora comodamente, velocemente e con precisione su superfici curve, instabili o inclinate.
Maggiore precisione, grazie alla punta di centraggio che impedisce lo scivolamento all'inizio della foratura.
La geometria STEP CUT con taglio a gradini genera fori più centrati, rotondi e precisi.
Il triplo piatto di ancoraggio ANTISLIP sul codolo trasmette adeguatamente la potenza del trapano.
Permette di realizzare fori passanti in acciaio inossidabile, ghisa, rame, nichel, zinco, PVC e fibra di vetro.



	D1 mm	L1 mm	L2 mm	L3 mm		TK05 €
TK050100	1,0	34	12	-	10	4,61
TK050150	1,5	40	18	-	10	4,76
TK050200	2,0	49	24	-	10	4,95
TK050250	2,5	57	30	1,6	10	5,77
TK050300	3,0	61	33	1,9	10	6,06
TK050350	3,5	70	39	2,1	10	7,23
TK050400	4,0	75	43	2,9	10	8,57
TK050450	4,5	80	47	3,3	10	9,41
TK050500	5,0	76	52	3,9	10	10,62
TK050550	5,5	93	57	4,6	10	11,25
TK050600	6,0	93	57	5,3	10	11,35
TK050650	6,5	101	63	5,8	10	13,24
TK050700	7,0	109	69	6,4	10	15,14
TK050750	7,5	109	69	6,9	10	17,71
TK050800	8,0	117	75	7,6	10	18,28
TK050850	8,5	117	75	8,2	10	21,70
TK050900	9,0	125	81	8,8	10	23,96
TK050950	9,5	125	81	9,3	10	25,85
TK051000	10,0	133	87	10,0	10	25,36
TK051050	10,5	133	87	10,7	10	27,61
TK051100	11,0	142	94	11,3	6	30,51
TK051150	11,5	142	94	12,0	6	33,18
TK051200	12,0	151	101	12,6	6	36,19
TK051250	12,5	151	101	13,8	6	38,51
TK051300	13,0	151	101	14,7	6	41,53



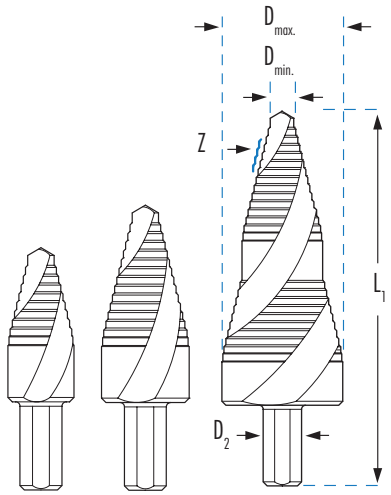
STRUMENTI STEP CUT FACILE FORATURA SU SUPERFICI CURVATE E INSTABILI

NEW **HSS**

PUNTA MICROSCALINATA HSS STEPCUT

NEW STEPCUT

SCALINO 2 mm





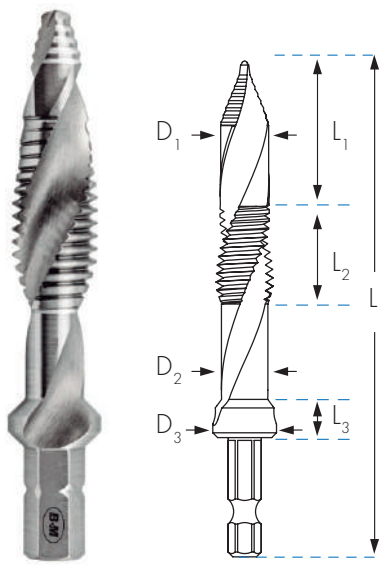
AV40BM37 **AV40BM38** **AV40BM36**

	D min. mm	D max. mm	D2 mm	L1 mm	Z	Ø Z mm minore-maggiore	AV40BM HSS €
AV40BM37B	6,0	15,0	9,5	55	11	6-7-8-9-10-11-12-13-14-14,5-15	27,75
AV40BM38B	6,0	20,0	9,5	65	16	6-7-8-9-10-11-12-13-14-15-16-17-18-19-19,5-20	41,49
AV40BM36B	6,0	30,0	9,5	93	27	6-7-8-9-10-11-12-13-14-15-16-17-18-19 19,5-20-21-22-23-24-25-26-27-28-29-29,5-30	102,31

PUNTA MASCHIO SVASATRICE HSS STEPCUT

NEW

DIN 13 60° p | HSSCo 5% | BRILLANTE | TOL 6H | D CODOLO SOTTILE | STEPCUT

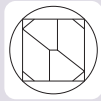


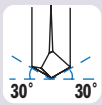
			L1 mm	L2 mm	L3 mm	L mm	D1 mm	D2 mm	D3 mm	MTKM €
M	3x0,50	D	7,5	6,0	6,0	52,0	2,5	2,2	7,3	21,29
M	4x0,70	D	10,0	8,4	6,0	56,4	3,3	3,0	7,3	21,29
M	5x0,80	D	13,0	9,5	6,0	63,5	4,2	3,7	7,3	21,29
M	6x1,00	D	15,0	12,0	6,0	68,0	5,0	4,5	7,3	21,29
M	8x1,25	D	20,0	15,0	6,0	81,0	6,8	6,3	9,4	29,44
M	10x1,50	D	25,0	18,0	6,0	89,0	8,5	8,0	11,4	35,50
M	12x1,75	D	30,0	21,0	8,0	104,0	10,3	9,8	13,4	56,36

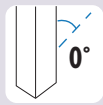
PUNTA QUADRATA PER PERFORARE CILINDRI

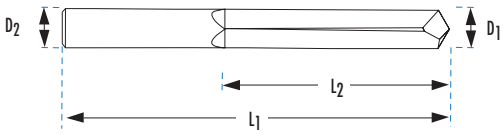
Ref. BCC06

MD















* Adatta per forare i cilindri "Anti-drilling"

	D1 mm	D2 mm	L2 mm	L1 mm	BCC06 €
BCC06X60MD	6	6	33	60	76,11

* Per forare cilindri "Anti-drilling" lavorare a 300RPM

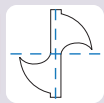


PUNTA ANTISCINTILLA PER LAVORI IN ATMOSFERE ESPLOSIVE (ATEX)

Ref. BACH

22 HRc

Cu-Be



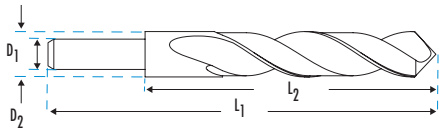












* Fabbricata in Rame-Berillio, in conformità allo standard Q/ZBF-312.
* Certificati e schede di sicurezza disponibili.
* Adatta per lavorare in atmosfere esplosive.

	D1 mm	D2 mm	L1 mm	L2 mm	BACH €
BACH0600	6,0	6,0	100	60	473,33
BACH0700	7,0	7,0	120	80	492,99
BACH0800	8,0	8,0	140	80	523,34
BACH0900	9,0	9,0	160	86	545,67
BACH1000	10,0	10,0	180	108	576,05
BACH1100	11,0	11,0	200	125	595,69
BACH1200	12,0	12,0	220	135	615,34
BACH1300	13,0	12,0	240	150	638,56
BACH1400	14,0	12,0	260	160	658,21
BACH1500	15,0	12,0	280	190	677,84
BACH1600	16,0	12,0	300	195	721,61
BACH1700	17,0	12,0	300	195	756,45
BACH1800	18,0	12,0	320	195	823,42
BACH1900	19,0	12,0	320	205	855,58
BACH2000	20,0	12,0	330	205	903,79

* Lunghezze speciali disponibili su richiesta



A causa delle loro caratteristiche speciali di durezza e resistenza (notevolmente inferiori a quelle che si possono ottenere negli utensili in acciaio), gli utensili antiscintilla non sono coperti da garanzia in caso di deformazione o rottura. La garanzia copre solamente le punte antiscintilla la cui durezza sia inferiore a 35 HRc.

PUNTA DELTABIT 3 TAGLIENTI

Ref. BTT33

3Z

DIN 338

HSSCo 5%

135°

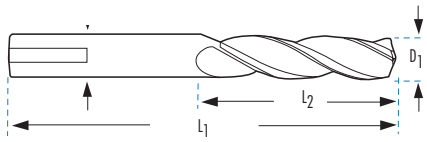
30° "N"

TOL H8

Ø ≥ 3

ALTA PRODUZIONE







- Maggiore precisione del foro
- Fori più arrotondati e più allineati
- Impugnatura tripla piatta antiscivolo, maggiore presa sul mandrino



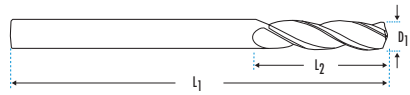
	D_1 mm	L_1 mm	L_2 mm	BTT33 €
BTT330300	3,0	61	33	2,75
BTT330330	3,3	65	36	3,55
BTT330350	3,5	70	39	3,55
BTT330400	4,0	75	43	4,17
BTT330420	4,2	75	43	5,14
BTT330450	4,5	80	47	5,14
BTT330500	5,0	86	52	5,87
BTT330550	5,5	93	57	7,29
BTT330600	6,0	93	57	8,42
BTT330650	6,5	101	63	9,68
BTT330680	6,8	109	69	11,13
BTT330700	7,0	109	69	11,13
BTT330750	7,5	109	69	12,71
BTT330800	8,0	117	75	15,21
BTT330850	8,5	117	75	16,91
BTT330900	9,0	125	81	19,61
BTT330950	9,5	125	81	21,35
BTT331000	10,0	133	87	24,06
BTT331020	10,2	133	87	26,80
BTT331050	10,5	133	87	26,80
BTT331100	11,0	142	94	30,86
BTT331150	11,5	142	94	33,36
BTT331200	12,0	151	101	38,59
BTT331250	12,5	151	101	41,30
BTT331300	13,0	151	101	44,01

PUNTA SPECIALE PER FORATURA DE HARDOX E LAMIERA ANTIUSURA

Ref. BHA

3xD | DIN 338 | HSSCo 8% | 135° | HARDTOP | HARDOX 400 | HARDOX 450 | HARDOX 600

Speciale geometria della punta, con Split Point e doppia sfaccettatura sottosquadro.
Il rivestimento HARDTOP migliora lo scorrimento del truciolo e previene l'adesione sul tagliente.
Migliora la resistenza meccanica e protegge la punta riducendo il coefficiente di attrito.
Il suo canale poco profondo genera un nucleo rinforzato che facilita la stabilità della lavorazione.
Massime prestazioni in materiali ad alta resistenza.



	D_1 mm	L_1 mm	L_2 mm	BHA €
BHA0100	1,0	34	6	12,02
BHA0150	1,5	40	9	12,02
BHA0200	2,0	49	12	12,49
BHA0250	2,5	57	14	12,73
BHA0300	3,0	61	16	12,84
BHA0320	3,2	65	18	13,67
BHA0330	3,3	65	18	13,67
BHA0350	3,5	70	20	13,67
BHA0400	4,0	75	22	14,52
BHA0420	4,2	75	22	18,93
BHA0450	4,5	80	24	18,93
BHA0500	5,0	86	26	17,94
BHA0550	5,5	93	28	24,24
BHA0600	6,0	93	28	22,71
BHA0650	6,5	101	31	26,18
BHA0680	6,8	109	34	30,41
BHA0700	7,0	109	34	28,03
BHA0750	7,5	109	34	33,57
BHA0800	8,0	117	37	36,50
BHA0850	8,5	117	37	36,50
BHA0900	9,0	125	40	43,70
BHA0950	9,5	125	40	49,33
BHA1000	10,0	133	43	47,85
BHA1020	10,2	133	43	55,67
BHA1050	10,5	133	43	60,13
BHA1100	11,0	142	47	62,57
BHA1150	11,5	142	47	70,45
BHA1200	12,0	151	51	65,62
BHA1250	12,5	151	51	86,20
BHA1300	13,0	151	51	93,94



Angolo di punta di 135º.
Fornisce un'eccellente centratura.

SMUSSO GUIDA STRETTO.
Fornisce un'eccellente centratura.

HARDTOP

Aumenta lo scorrimento del truciolo sul tagliente, evitandone l'aderenza e facilitando un rapido scorrimento lungo il canale di evacuazione.

HSSCo 8%

ACCIAIO M42 HSSCo 8%
Consente la lavorazione di materiali di elevata resistenza e durezza alle alte temperature.

Norma dimensionale DIN 338.

	Hardox® HiTuf	Hardox® 400	Hardox® 450	BHA Hardox® 600
vc (m/min)	11	8	6	4
Ø	f(mm/rev.)	f(mm/rev.)	f(mm/rev.)	f(mm/rev.)
2,5	0,035/1400	0,025/1000	0,015/770	0,005/500
3	0,04/1200	0,03/850	0,02/640	0,01/430
4	0,05/900	0,04/650	0,03/480	0,02/320
5	0,06/700	0,05/510	0,04/400	0,03/255
6	0,07/590	0,06/430	0,05/320	0,04/220
7	0,08/500	0,07/370	0,06/280	0,05/190
8	0,09/440	0,08/320	0,07/240	0,06/160
10	0,11/350	0,10/260	0,09/200	0,08/130
13	0,14/270	0,13/200	0,12/150	0,1/100

PUNTE ELICOIDALI CILINDRICHE, SERIE LUNGA E EXTRA CORTA

DIN 340



DIN 1897



Ø mm	L1 x L2	BC4	BC47	BC40	BC44	BC48	BC78	L1 x L2	BC3	BC31	BC37	BC33	BC35	BC77	BC43	BC17	BC38
MATERIALE		HSS	HSSCo 5%	HSS	HSSCo 5%	HSSCo 5%	PMD		HSS	HSSCo 5%	HSS	HSSCo 5%	HSSCo 5%	PMD	MD	HSS	HSSCo 5%
TIPO DI AFFILATURA																	
ANGOLO DI TAGLIO		118°	135°	118°	135°	135°	118°		135°	135°	135°	135°	118°	118°	135°	135°	135°
ELICA		30° "N"	30° "N"	30° "N"	38° "S"	38° "S"	30° "N"		30° "N"	30° "N"	30° "N"	38° "S"	38° "N"	30° "N"	35° "N"	30° "N"	30° "N"
FINITURA		OX	DORATO	TiN	BRILLANTE	TiAlN	BRILLANTE		OX	DORATO	TiN	BRILLANTE	TiAlN	BRILLANTE	BRILLANTE	OX	DORATO
APPLICAZIONE		70 Kg/mm²	120 Kg/mm²	PRODUZIONE	INOX	INOX	GHISA		70 Kg/mm²	120 Kg/mm²	PRODUZIONE	INOX	INOX Plus	GHISA	ALTA PRODUZIONE	70 Kg/mm²	120 Kg/mm²
		€	€	€	€	€	€		€	€	€	€	€	€	€	€	€
0,50	32x13	6,67						23x5							13,61		
0,60	37x17	5,41						23x5							15,53		
0,70	42x21	5,00						23x5							15,53		
0,80	47x23	4,97						23x5							15,53		
0,90	51x25	4,97						23x5									
1,00	56x33	5,03						26x6	1,35	2,15	2,68	2,30			7,47		
1,10	56x33	4,87						26x6	1,68								
1,20	60x37	4,87						26x6	1,68								
1,25	65x41	5,05						30x8	1,16	2,56	2,50						
1,30	65x41	4,87						30x8	1,68								
1,40	70x45	4,87						30x9	1,68								
1,50	70x45	3,58		4,72				30x9	1,16	2,04	2,50	2,80			8,55		
1,60	76x50	4,87			6,13			34x10	1,35	2,69	2,68						
1,70	76x50	4,86			6,15			36x11	1,66								
1,75	80x53	4,03						36x11	1,35	2,59	2,68						
1,80	80x53	3,89			5,83			36x11	1,35	2,69	2,68						
1,90	80x53	3,89			6,15			38x12	1,48								
2,00	85x56	2,56	4,38	3,84	5,92	10,38	34,44	38x12	1,15	2,07	2,49	2,03	5,34	20,97	7,74	2,19	
2,10	85x56	3,28			6,08			38x12	1,35	2,71	2,59				9,83		
2,20	90x59	3,28			6,13			40x13	1,35	2,71	2,59				9,83		
2,25	90x59	3,13						40x13	1,15	2,68	2,40						
2,30	90x59	3,14			5,52			40x13	1,35	2,71	2,59				9,83		
2,40	95x62	3,14			6,88			43x14	1,35	2,71	2,59				9,83		
2,50	95x62	2,83	4,37	4,05	5,36	10,38	34,10	43x14	1,05	1,85	2,30	2,25	5,01	20,97	9,54	2,15	
2,60	95x62	3,34			6,30			43x14	1,28	2,18	2,52			22,03	9,83		
2,70	100x66	3,34			6,13			46x16	1,28	2,19	2,52				12,92		

DIN 340

		BC4	BC47	BC40	BC44	BC48	BC78
MATERIALE		HSS	HSSCo 5%	HSS	HSSCo 5%	HSSCo 5%	PMD
TIPO DI AFFILATURA							
ANGOLO DI TAGLIO		 118°	 135°	 118°	 135°	 135°	 118°
ELICA		 30° "N"	 30° "N"	 30° "N"	 38° "S"	 38° "S"	 30° "N"
FINITURA		OX	DORATO	TiN	BRILLANTE	TiAlN	BRILLANTE
APPLICAZIONE		 70 Kg/mm²	 120 Kg/mm²	 PRODUZIONE	INOX	INOX	GHISA
Ø mm	L1 x L2	€	€	€	€	€	€
2,75	100x66	3,87					
2,80	100x66	3,48			6,30		
2,90	100x66	3,75			6,29		
3,00	**100x66**	2,62	4,73	3,88	5,49	10,37	30,64
3,10	106x69	2,94	5,41	4,53	5,70	12,17	
3,20	106x69	2,94	5,41		5,52	12,09	
3,25	106x69	2,94	5,41	4,53			
3,30	106x69	2,94			5,38	12,06	
3,40	112x73	3,76			7,21		
3,50	**112x73**	2,77	5,56	4,35	6,59	12,07	29,34
3,60	112x73	3,76			7,88		
3,70	112x73	3,76			7,67		
3,75	112x73	3,90	6,39	5,50			
3,80	119x78	4,25			8,52		
3,90	119x78	4,25	6,39		8,30		
4,00	**119x78**	3,00	6,28	4,62	6,51	12,38	30,40
4,10	119x78	3,91	6,90		6,89	13,87	
4,20	119x78	3,91	6,93		6,68	13,82	
4,25	119x78	3,91	6,93	5,50			
4,30	126x82	5,07		5,78	7,46	14,99	
4,40	126x82	5,07			9,70		
4,50	**126x82**	3,59	7,60	5,20	7,62	14,63	31,08
4,60	126x82	4,77			9,98		
4,70	126x82	4,77			9,42		
4,75	126x82	5,26	7,79	6,87			
4,80	132x87	5,29	7,79		10,43		
4,90	132x87	5,29			10,76		
5,00	**132x87**	3,75	7,76	5,41	8,27	15,08	31,35
5,10	132x87	5,84	9,13		8,68	17,12	
5,20	132x87	5,84			8,71		35,72
5,25	132x87	6,12	9,13	7,65			
5,30	132x87	5,96			11,30	17,73	
5,40	139x91	6,36			12,71		
5,50	**139x91**	5,06	10,02	6,63	9,59	16,55	34,03
5,60	139x91	6,37			11,80		
5,70	139x91	6,37		8,60	8,30		
5,75	139x91	6,61	10,67	8,18			
5,80	139x91	6,64	10,67		9,02		
5,90	139x91	6,64			12,70		
6,00	**139x91**	4,67	10,60	6,21	9,95	16,69	34,00
6,10	148x97	6,98			14,31		
6,20	148x97	6,98			19,16		
6,25	148x97	7,27		9,32			
6,30	148x97	7,08					
6,40	148x97	7,08					
6,50	**148x97**	5,99	12,11	10,18	16,46	23,66	36,59
6,60	148x97	7,08					
6,70	148x97	7,08			14,78		
6,75	156x102	7,34	14,11	11,48			
6,80	156x102	7,33			15,48	27,02	
6,90	156x102	7,51					

DIN 1897

	BC3	BC31	BC37	BC33	BC35	BC77	BC43	BC17	BC38
MATERIALE	HSS	HSSCo 5%	HSS	HSSCo 5%	HSSCo 5%	PMD	MD	HSS	HSSCo 5%
TIPO DI AFFILATURA									
ANGOLO DI TAGLIO	 135°	 135°	 135°	 135°	 118°	 118°	 135°	 135°	 135°
ELICA	 30° "N"	 30° "N"	 30° "N"	 38° "S"	 38° "N"	 30° "N"	 35° "N"	 30° "N"	 30° "N"
FINITURA	OX	DORATO	TiN	BRILLANTE	TiAlN	BRILLANTE	BRILLANTE	OX	DORATO
APPLICAZIONE	 70 Kg/mm²	 120 Kg/mm²	 PRODUZIONE	INOX	INOX Plus	GHISA	 ALTA PRODUZIONE	 70 Kg/mm²	 120 Kg/mm²
L1 x L2	€	€	€	€	€	€	€	€	€
46x16	1,09	2,26	2,35						
46x16	1,29	2,19	2,53				12,92		
46x16	1,29	2,19	2,53				12,92		
46x16	1,09	1,85	2,35	1,85	4,87	19,04	12,07	1,93	
49x18	1,17	1,96	2,67	2,06			13,10	1,94	
49x18	1,17	1,96	2,67	2,06			13,10	1,94	
49x18	1,17	1,96	2,67			22,24		1,94	3,01
49x18	1,19	1,96	2,68	2,06	6,02		13,10	1,93	
52x20	1,35	2,42	2,83	2,01		23,35	14,11	2,17	
52x20	1,17	1,96	2,67	2,18	5,98	19,04	13,16	2,15	3,63
52x20	1,48	2,42	2,98	2,51			15,50		
52x20	1,48	2,42	2,98	2,51	6,70		15,50		
52x20	1,32	2,50	2,81					2,45	
55x22	1,48	2,42	2,98	2,52			16,69	2,33	
55x22	1,48	2,42	2,98	2,52			16,69		
55x22	1,32	2,21	2,81	2,41	6,24	17,60	15,59	2,20	3,72
55x22	1,58	2,64	3,04	2,64			17,52	2,22	
55x22	1,58	2,64	3,04	2,66	6,83	19,04	17,52	2,22	
55x22	1,58	2,64	3,04					2,37	
58x24	1,78	3,02	3,29	2,82			18,58		
58x24	1,78	3,02	3,29	2,93			18,58		
58x24	1,58	2,64	3,04	2,70	6,94	18,60	18,05	2,45	
58x24	2,02	3,15	3,51	3,25			18,58		
58x24	2,02	3,15	3,51	3,13			19,91		
58x24	1,73	2,94	3,21					3,96	
62x26	2,02	3,15	3,51	3,18			19,91		
62x26	2,02	3,15	3,51	3,59			19,91		
62x26	1,66	2,93	3,21	3,46	7,31	18,60	18,56	2,50	4,75
62x26	2,22	3,61	3,71	3,92		20,92	19,91	3,57	
62x26	2,20	3,57	3,69	4,10			25,78	3,57	
62x26	1,92	3,27	3,41					3,20	
62x26	2,22	3,57	3,72	3,97			25,78		
66x28	2,22	3,57	3,72	4,32			25,78		
66x28	1,92	3,27	3,41	4,11	8,51	19,93	25,04	3,08	
66x28	2,54	3,81	4,05	4,28			27,40		
66x28	2,56	3,81	4,06	4,43		20,92	27,40		
66x28	2,21	3,93	3,64					4,74	
66x28	2,54	3,81	4,05	4,55			27,40		
66x28	2,56	3,81	4,06	4,53			27,40		
66x28	2,20	3,71	3,68	4,38	8,92	20,76	27,12	3,13	
70x31	3,01	4,79	5,25	4,75		22,78	34,12		
70x31	3,01	4,79	5,25	4,69			34,12		
70x31	2,59	4,94	4,86						
70x31	3,01	4,79	5,25	4,55			34,12		
70x31	3,01	4,81	5,25	4,56			34,12		
70x31	2,58	4,42	6,57	4,70	13,61	21,70	32,81		
74x34	3,47	5,97	7,46	7,31			40,14		
74x34	3,47	5,97	7,46	7,23			40,14		
74x34	3,04	6,16	6,94						
74x34	3,02	6,14	6,99	7,58	16,79	27,37	40,14		
74x34	3,32					28,73	40,14		

PUNTE ELICOIDALI CILINDRICHE, SERIE LUNGA E EXTRA CORTA

DIN 340



DIN 1897



	BC4	BC47	BC40	BC44	BC48	BC78		BC3	BC31	BC37	BC33	BC35	BC77	BC43	BC17	BC38
MATERIALE	HSS	HSSCo 5%	HSS	HSSCo 5%	HSSCo 5%	PMD		HSS	HSSCo 5%	HSS	HSSCo 5%	HSSCo 5%	PMD	MD	HSS	HSSCo 5%
TIPO DI AFFILATURA																
ANGOLO DI TAGLIO	118°	135°	118°	135°	135°	118°		135°	135°	135°	135°	118°	118°	135°	135°	135°
ELICA	30° "N"	30° "N"	30° "N"	38° "S"	38° "S"	30° "N"		30° "N"	30° "N"	30° "N"	38° "S"	38° "N"	30° "N"	35° "N"	30° "N"	30° "N"
FINITURA	OX	DORATO	TiN	BRILLANTE	TiAlN	BRILLANTE		OX	DORATO	TiN	BRILLANTE	TiAlN	BRILLANTE	BRILLANTE	OX	DORATO
APPLICAZIONE	70 Kg/mm²	120 Kg/mm²	PRODUZIONE	INOX	INOX	GHISA		70 Kg/mm²	120 Kg/mm²	PRODUZIONE	INOX	INOX Plus	GHISA	ALTA PRODUZIONE	70 Kg/mm²	120 Kg/mm²
Ø mm	L1 x L2	€	€	€	€	€	€	L1 x L2	€	€	€	€	€	€	€	€	€
7,00	156x102	6,84	14,22	11,24	15,07	27,31	36,59	74x34	3,02	5,07	6,99	7,65	14,63	23,81	38,56	5,03	
7,10	156x102	7,51						74x34							47,43		
7,20	156x102	7,51			22,86			74x34	3,92						47,97		
7,25	156x102	7,83						74x34	3,42	6,60	7,41						
7,30	156x102	7,67			23,99			74x34		6,94					48,90		
7,40	156x102	7,67						74x34							48,90		
7,50	156x102	7,45	15,11	11,64	17,52	28,53	41,69	74x34	3,42	6,23	7,41	9,14	17,30	25,04	44,54		
7,60	165x109	7,67						79x37		7,50					54,15		
7,70	165x109	7,67						79x37		7,50					55,17		
7,75	165x109	7,97		12,68				79x37	3,76	7,14	7,75						
7,80	165x109	8,59			26,76			79x37	4,31	7,18	8,31	9,32	26,23		54,15		
7,90	165x109	8,59						79x37		7,54					54,15		
8,00	165x109	8,22	16,16	12,55	20,24	30,40	41,69	79x37	3,73	6,39	7,71	8,96	17,11	26,72	50,74	6,15	
8,10	165x109	8,59						79x37						30,80	66,02		
8,20	165x109	8,59			25,86			79x37							67,29		
8,25	165x109	8,93						79x37	4,48	8,42	8,48						
8,30	165x109	13,09						79x37							67,29		
8,40	165x109	13,20						79x37							67,29		
8,50	165x109	9,24	18,75	14,18	21,60	34,91	52,76	79x37	4,48	7,56	8,48	10,43	20,28	29,32	65,04		
8,60	175x115	13,20						84x40		9,59				32,81	71,64		
8,70	175x115	13,20						84x40							73,03		
8,75	175x115	13,43		15,66				84x40	4,90	9,14	8,89						
8,80	175x115	13,48			26,22			84x40							71,64		
8,90	175x115	13,48						84x40							73,03		
9,00	175x115	10,02	20,21	14,91	24,27	37,38	46,11	84x40	4,86	8,30	9,51	11,35	21,51	31,24	63,23		

DIN 340

DIN 1897

		BC4	BC47	BC40	BC44	BC48	BC78		BC3	BC31	BC37	BC33	BC35	BC77	BC43	BC17	BC38
MATERIALE		HSS	HSSCo 5%	HSS	HSSCo 5%	HSSCo 5%	PMD		HSS	HSSCo 5%	HSS	HSSCo 5%	HSSCo 5%	PMD	MD	HSS	HSSCo 5%
TIPO DI AFFILATURA																	
ANGOLO DI TAGLIO		118°	135°	118°	135°	135°	118°		135°	135°	135°	135°	118°	118°	135°	135°	135°
ELICA		30° "N"	30° "N"	30° "N"	38° "S"	38° "S"	30° "N"		30° "N"	30° "N"	30° "N"	38° "S"	38° "N"	30° "N"	35° "N"	30° "N"	30° "N"
FINITURA		OX	DORATO	TiN	BRILLANTE	TiAlN	BRILLANTE		OX	DORATO	TiN	BRILLANTE	TiAlN	BRILLANTE	BRILLANTE	OX	DORATO
APPLICAZIONE		70 Kg/mm²	120 Kg/mm²	PRODUZIONE	INOX	INOX	GHISA		70 Kg/mm²	120 Kg/mm²	PRODUZIONE	INOX	INOX Plus	GHISA	ALTA PRODUZIONE	70 Kg/mm²	120 Kg/mm²
Ø mm	L1 x L2	€	€	€	€	€	€	L1 x L2	€	€	€	€	€	€	€	€	€
9,10	175x115	13,49						84x40						35,31	78,36		
9,20	175x115	13,49			31,66			84x40		10,80					79,87		
9,25	175x115	14,02						84x40	5,51	10,33	10,14						
9,30	175x115	14,49						84x40		10,80					79,87		
9,40	175x115	14,49						84x40		10,80					79,87		
9,50	175x115	10,15	20,45	15,02	26,94	37,60	49,09	84x40	5,51	9,38	10,14	12,48	23,40	33,63	73,07		
9,60	184x121	14,51						89x43							82,45		
9,70	184x121	14,49						89x43							82,45		
9,75	184x121	15,08						89x43	6,14	11,44	10,76						
9,80	184x121	14,58			38,25			89x43							82,45		
9,90	184x121	14,49						89x43							80,88		
10,00	184x121	10,95	22,25	16,01	29,31	39,98	48,74	89x43	6,14	10,45	11,44	13,85	25,37	36,35	72,10		
10,10	184x121	15,87												41,57			
10,20	184x121	14,85						89x43	6,94	11,58	12,26	15,87	36,06		89,68		
10,25	184x121	13,74	32,50	24,13				89x43	7,73								
10,30	184x121	21,01												41,57			
10,40	184x121	18,32															
10,50	184x121	14,82	29,65	25,24	31,97	58,92	66,13	89x43	6,93	11,59	14,90	16,97		39,60	88,84		
10,60	195x128	20,63															
10,70	195x128	20,63															
10,75	195x128	15,08						95x47	8,52								
10,80	195x128	18,89															
10,90	195x128	20,63															
11,00	195x128	15,80	33,31	26,68	35,26	64,33	66,13	95x47	7,73	12,95	15,66	18,68	39,72	42,46	94,84		
11,10	195x128	20,29												48,08			
11,20	195x128	19,81															
11,25	195x128	19,61															
11,30	195x128	23,65															
11,40	195x128	23,65															
11,50	195x128	16,81	34,97	27,25	43,94	65,86	86,10	95x47	8,57	15,15	16,54	19,87		45,79	111,04		
11,60	195x128	23,65															
11,70	195x128	23,65															
11,75	195x128	22,05															
11,80	195x128	22,05															
11,90	195x128	22,05															
12,00	205x134	18,77	38,04	29,21	43,94	70,32	76,26	102x51	9,02	16,21	17,01	21,74	47,42	49,84	111,04		
12,10	205x134	22,61												55,40			
12,20	205x134	21,24															
12,25	205x134	21,28															
12,30	205x134	25,09															
12,40	205x134	27,95															
12,50	205x134	19,81	42,73	32,93	46,38	85,99	82,83	102x51	10,14	19,73	20,79	26,00		52,77	139,80		
12,60	205x134	27,95															
12,70	205x134	27,95						102x51	10,69	22,76	21,32						
12,75	205x134	26,07															
12,80	205x134	27,95															
12,90	205x134	27,95															
13,00	205x134	22,44	45,81	35,47	68,33	87,37	82,83	102x51	11,11	20,12	21,74	27,54	59,15	57,00	139,80		
13,25	214x140	26,19															
13,50	214x140	25,05						107x54	14,10	23,81	26,08	33,59					
13,75	214x140	26,29															

PUNTE ELICOIDALI CILINDRICHE, SERIE LUNGA E EXTRA CORTA

DIN 340



DIN 1897



	BC4	BC47	BC40	BC44	BC48	BC78		BC3	BC31	BC37	BC33	BC35	BC77	BC43	BC17	BC38
MATERIALE	HSS	HSSCo 5%	HSS	HSSCo 5%	HSSCo 5%	PMD		HSS	HSSCo 5%	HSS	HSSCo 5%	HSSCo 5%	PMD	MD	HSS	HSSCo 5%
TIPO DI AFFILATURA																
ANGOLO DI TAGLIO	118°	135°	118°	135°	135°	118°		135°	135°	135°	135°	118°	118°	135°	135°	135°
ELICA	30° "N"	30° "N"	30° "N"	38° "S"	38° "S"	30° "N"		30° "N"	30° "N"	30° "N"	38° "S"	38° "N"	30° "N"	35° "N"	30° "N"	30° "N"
FINITURA	OX	DORATO	TiN	BRILLANTE	TiAlN	BRILLANTE		OX	DORATO	TiN	BRILLANTE	TiAlN	BRILLANTE	BRILLANTE	OX	DORATO
APPLICAZIONE	70 Kg/mm²	120 Kg/mm²	PRODUZIONE	INOX	INOX	GHISA		70 Kg/mm²	120 Kg/mm²	PRODUZIONE	INOX	INOX Plus	GHISA	ALTA PRODUZIONE	70 Kg/mm²	120 Kg/mm²
Ø mm	L1 x L2	€	€	€	€	€	€	L1 x L2	€	€	€	€	€	€	€	€	€
14,00	214x140	27,05					100,47	107x54	15,15	25,64	27,13	36,56		67,14	164,62		
14,25	220x144	48,75															
14,50	220x144	31,64						111x56	17,44	35,57	29,44	42,19			180,81		
14,75	220x144	48,75															
15,00	220x144	30,64					104,02	111x56	19,95	36,11	31,96	46,54		82,98	182,06		
15,25	227x149	55,00															
15,50	227x149	45,44						115x58	24,04	41,76	36,06	50,60			217,65		
15,75	227x149	55,01															
16,00	227x149	35,65					135,13	115x58	24,04	43,31	36,06	54,72		96,23	219,83		
16,25	235x154	60,69															
16,50	235x154	42,19						119x60	28,25	49,53	44,28						
16,75	235x154	60,69															
17,00	235x154	42,38					172,21	119x60	28,25	49,53	44,28						
17,25	241x158	69,77															
17,50	241x158	62,61						123x62	31,49	54,85	47,51						
17,75	241x158	81,52															
18,00	241x158	44,18					180,17	123x62	31,49	59,78	50,16						
18,25	247x162	85,26															
18,50	247x162	68,38						127x64	35,07	66,00	53,78						
18,75	247x162	118,71															
19,00	247x162	55,38						127x64	35,07	66,00	53,78						
19,25	254x166	122,90															
19,50	254x166	106,50						131x66	42,04	73,20	63,43						
19,75	254x166	120,26															
20,00	254x166	62,14					249,96	131x66	42,04	78,42	63,43			464,11			

PUNTE ELICOIDALI CILINDRICHE SERIE EXTRA LUNGA

DIN 1869 I/II/III



Ref. BC8



Ref. BC88

	BC8	BC88
MATERIALE	HSS	HSSCo 5%
TIPO DI AFFILATURA		
ANGOLO DI TAGLIO	118°	135°
ELICA	30° "N"	38° "S"
FINITURA	OX	BRILLANTE
APPLICAZIONE	70 Kg/mm²	INOX

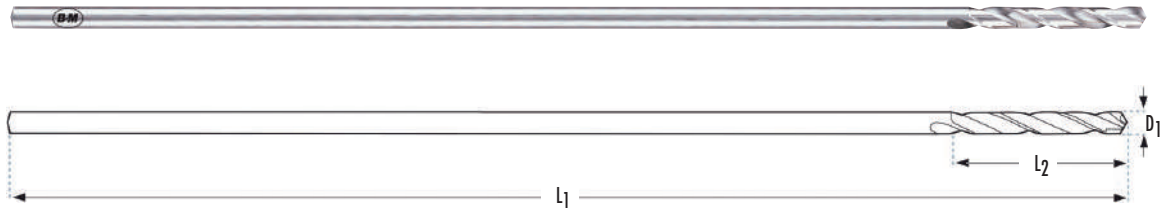
Ø mm	L1 x L2	BC8 €	BC88 €
0,50	50x25	9,94	
0,60	60x30	10,42	
0,70	60x30	10,87	
0,70	80x50	10,87	
0,80	60x30	10,87	
0,80	80x50	10,87	
0,80	120x60	11,18	
1,00	80x50	11,59	
1,00	100x70	11,86	
1,00	150x75	11,86	
1,50	100x70	11,86	
1,50	140x100	9,58	
2,00	100x70	9,63	
2,00	125x85	9,73	15,90
2,00	150x100	9,95	
2,00	160x125		24,65
2,00	200x135		31,26
2,25	135x90		20,48
2,50	140x95	10,06	15,77
2,50	180x130		33,32
2,50	225x150		39,35
2,75	150x100		22,44
3,00	150x100	11,13	17,92
3,00	190x130	12,73	22,06
3,00	240x160		38,98
3,25	155x105		22,44
3,25	200x135		27,70
3,50	165x115	11,04	18,17
3,50	210x145	13,65	23,34
3,50	265x180	19,54	31,65
3,75	165x115		25,98
3,75	210x145		27,70
3,75	265x180		36,58
4,00	175x120	11,08	18,17
4,00	220x150	13,81	23,34
4,00	280x190	19,91	31,65
4,25	175x120		27,53
4,25	220x150	22,17	35,59
4,25	280x190		44,52
4,50	185x125	12,57	21,26
4,50	235x160	16,54	27,73
4,50	295x220	23,46	39,39
4,75	185x125		28,34
4,75	235x160		35,59
4,75	295x200		44,52
5,00	195x135	12,80	25,71
5,00	245x170	17,82	32,28
5,00	315x210	21,86	37,22
5,25	195x135		28,76
5,25	245x170		39,73
5,25	315x210		47,62
5,50	205x140	14,97	22,77
5,50	260x180	20,45	34,43
5,50	330x225	26,85	42,34
5,75	205x140	17,89	28,76
5,75	260x180	24,74	39,73
5,75	330x225	30,03	48,21
6,00	205x140	15,48	22,76
6,00	260x180	23,07	34,43
6,00	330x225	27,26	42,48
6,25	215x150		33,69
6,25	275x190		41,57
6,25	350x235		53,68
6,50	215x150	17,35	28,20
6,50	275x190	25,09	38,01
6,50	350x235	30,90	48,51
6,75	225x155		36,58
6,75	290x200		48,01
6,75	370x250		68,07
7,00	225x155	19,54	34,99
7,00	290x200	27,44	42,48
7,00	370x250	39,15	62,55
7,25	225x155		46,61
7,25	290x200		57,44
7,25	370x250		76,75
7,50	225x155	23,42	38,60
7,50	290x200	31,21	50,59
7,50	370x250	46,12	71,05
7,75	240x165		48,01
7,75	305x210		57,44
7,75	390x265		84,88
8,00	240x165	24,80	39,39
8,00	305x210	32,68	49,30
8,00	390x265	46,43	72,97
8,25	240x165		62,96
8,25	305x210		83,59
8,25	390x265		101,54
8,50	240x165	32,11	53,46
8,50	305x210	44,35	74,53
8,50	390x265	60,12	91,29
8,75	240x165		67,28
8,75	320x220		83,59
8,75	410x280		106,90
9,00	250x175	33,00	57,04
9,00	320x220	43,87	71,67
9,00	410x280	64,14	93,52
9,25	250x175		78,69
9,25	320x220		100,33
9,25	410x280		125,47
9,50	250x175	39,15	66,02
9,50	320x220	54,26	85,71
9,50	410x280	72,60	113,92
9,75	265x185		80,29
9,75	340x235		104,55
9,75	430x295		134,74
10,00	265x185	39,71	59,84
10,00	340x235	51,16	74,84
10,00	430x295	70,60	111,06
10,25	265x185		113,39
10,25	340x235		122,94
10,25	430x295		130,73
10,50	265x185	57,75	101,18
10,50	340x235	62,57	109,67
10,50	430x295	66,56	116,63
10,75	280x195		113,39
10,75	365x250		122,94
10,75	455x310		130,73
11,00	280x195	41,46	75,86
11,00	365x250	56,20	98,45
11,00	455x310	65,78	115,25
11,25	280x195		105,62
11,25	365x250		141,81
11,25	455x310		146,47
11,50	280x195	53,78	94,21
11,50	365x250	72,20	126,49
11,50	455x310	74,59	130,68
11,75	280x195		105,62
11,75	365x250		141,81
11,75	455x310		146,47
12,00	295x205	55,58	85,71
12,00	375x260	63,40	111,06
12,00	480x330	77,15	135,16
12,25	295x205		122,94
12,25	375x260		137,66
12,25	480x330		167,10
12,50	295x205	62,57	109,67
12,50	375x260	70,08	122,81
12,50	480x330	81,42	149,06
12,75	295x205		122,94
12,75	375x260		137,66
12,75	480x330		167,10
13,00	295x205	62,57	109,67
13,00	375x260	72,21	126,49
13,00	480x330	85,89	150,46

* Altre dimensioni disponibili su richiesta

PUNTA ELICOIDALE PER AERONAUTICA, SERIE EXTRA LUNGA

Ref. BC08

HSS | 135° | 30° "N" | AIRCRAFT



150 mm

	D1 mm	L1 mm	L2 mm	BC08 €
BC080225150	2,25	150	25	13,92
BC080250150	2,50	150	25	13,42
BC080320150	3,20	150	26	13,40
BC080325150	3,25	150	36	13,21
BC080400150	4,00	150	43	13,67

300 mm

	D1 mm	L1 mm	L2 mm	BC08 €
BC080225300	2,25	300	25	14,78
BC080250300	2,50	300	25	13,97
BC080320300	3,20	300	26	14,01
BC080325300	3,25	300	36	13,96
BC080400300	4,00	300	43	15,61

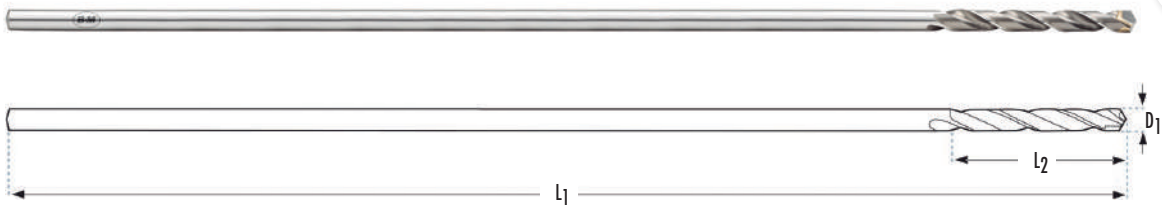
* Altre dimensioni disponibili su richiesta

PUNTA ELICOIDALE IN METALLO DURO PER AERONAUTICA, SERIE EXTRA LUNGA

Ref. BC08PMD

PMD | 85° | 20° "N" | AIRCRAFT MD

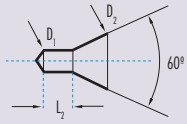




* Disponibilità serie Aircraft MD. Produzione di misure speciali su richiesta.

PUNTE A CENTRARE

Ref. BC10
Ref. BC10Co
Ref. BC65
Ref. BC10I
Ref. BC10MD
Ref. BC10W

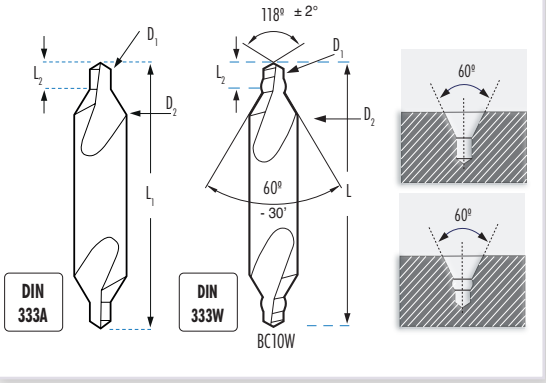


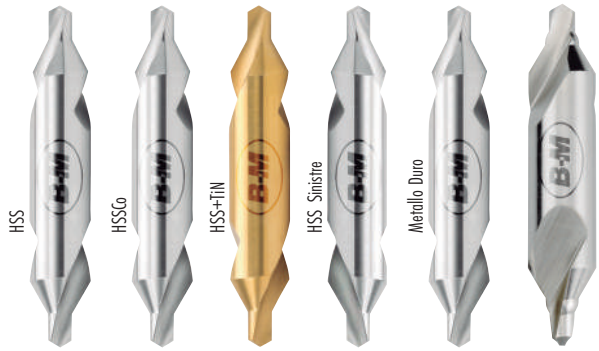
DIN 333A

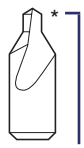


DIN 333W









D1 x D2 mm	L1 x L2 mm	BC10 HSS €	BC10Co HSSCo 5% €	BC65 TiN €	BC10I HSS €	BC10MD MD €	BCW10 HSS NEW €
0,50 x 3,00	31 x 1	15,06		19,88			18,07
0,50 x 3,15*	25 x 1	8,85	9,61	14,74			10,62
0,63 x 3,15*	25 x 1	8,85		14,74		61,77	
0,80 x 3,15*	25 x 1	8,69	9,61	14,60			10,43
1,00 x 3,15	31 x 1	6,13	9,16	11,82		61,77	7,35
1,25 x 3,15	33 x 1	5,67	9,16	11,82		61,77	6,80
0,75 x 3,50	35 x 1	9,39	9,61	15,76			
1,00 x 4,00	35 x 1	8,09	9,61	14,48		65,09	9,70
1,25 x 4,00	35 x 1	6,51		12,62			7,81
1,50 x 5,00	40 x 2	7,77	10,35	14,40		72,53	9,32
1,60 x 4,00	37 x 2	5,95	9,16	12,27	10,40	65,98	7,14
1,60 x 5,00	40 x 2	6,48		12,82			7,77
2,00 x 5,00	42 x 2	6,59	9,86	12,93	11,51	75,18	7,91
2,00 x 6,00	45 x 2	7,77	10,90	15,69		81,10	9,32
2,00 x 6,30	45 x 2	6,65		14,46	12,96		8,84
2,50 x 6,30	47 x 3	7,32	10,95	14,64	12,79	85,67	8,79
2,50 x 8,00	50 x 3	8,09	11,49	15,36	14,11	96,13	9,70
3,00 x 8,00	50 x 3	8,49	12,11	16,38		96,13	10,18
3,15 x 8,00	52 x 4	8,06	12,05	15,42	14,08	96,13	9,68
3,00 x 10,00	55 x 4	11,03	16,75	21,07		117,41	13,24
3,15 x 10,00	56 x 4	9,52		21,07	16,63		11,42
4,00 x 10,00	59 x 5	11,18	15,95	20,71	19,51	117,41	13,41
4,00 x 12,00	63 x 5	18,96	26,41	28,06			22,75
4,00 x 12,50	63 x 5	13,02		28,06	22,73		21,79
5,00 x 12,00	63 x 5	18,96	26,41	28,06		188,00	22,75
5,00 x 12,50	66 x 6	18,04	26,31	28,82	31,50	196,09	21,64
5,00 x 14,00	69 x 6	32,60	36,49	42,63			39,12
5,00 x 16,00	71 x 6	26,94		38,79	47,10		32,33
6,30 x 16,00	74 x 8	26,81	37,66	38,79		304,29	32,17
6,30 x 18,00	77 x 8	49,62		55,86			59,54
6,30 x 20,00	80 x 8	47,26		55,86			61,43
8,00 x 20,00	81 x 27	76,85	103,00	76,47			92,22
8,00 x 25,00	100 x 10	118,53		117,55			
10,00 x 25,00	100 x 31	80,32	113,36	117,55			96,38
10,00 x 31,50	125 x 12	250,14		254,36			
12,50 x 31,50	125 x 33	191,03	248,29	254,56			

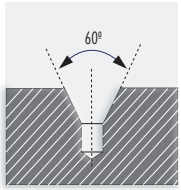
PUNTE A CENTRARE

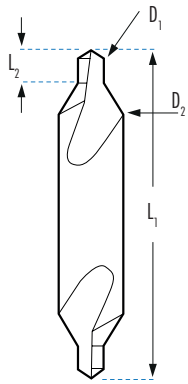
Ref. BC64
Ref. BC68

DIN 333A

SERIE LUNGA







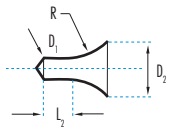


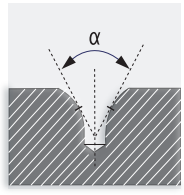
D1 x D2 mm	L1 x L2 mm	BC64 HSS €	BC68 TiN €
1,00 x 4,00	60 x 1	**20,99**	**26,73**
1,00 x 4,00	120 x 1	**42,41**	**67,98**
1,50 x 5,00	60 x 2	**21,41**	**27,08**
1,50 x 5,00	120 x 2	**43,23**	**60,15**
2,00 x 5,00	200 x 2	**92,81**	**157,45**
2,00 x 6,00	80 x 2	**22,30**	**29,40**
2,00 x 6,00	120 x 2	**33,78**	**59,46**
2,50 x 6,30	200 x 2	**91,16**	**155,78**
2,50 x 8,00	80 x 3	**27,14**	**38,24**
2,50 x 8,00	120 x 3	**41,09**	**70,47**
3,00 x 8,00	80 x 4	**27,14**	**38,24**
3,00 x 8,00	120 x 4	**41,09**	**70,47**
3,15 x 8,00	200 x 4	**86,17**	**150,81**
3,00 x 10,00	100 x 4	**35,04**	**48,07**
3,00 x 10,00	120 x 4	**42,45**	**79,75**
4,00 x 10,00	100 x 5	**35,07**	**48,07**
4,00 x 10,00	120 x 5	**42,51**	**79,75**
4,00 x 10,00	200 x 5	**94,46**	**159,09**
4,00 x 12,00	100 x 5	**47,25**	**71,82**
4,00 x 12,00	120 x 5	**57,25**	**101,55**
5,00 x 14,00	120 x 6	**80,13**	**122,39**

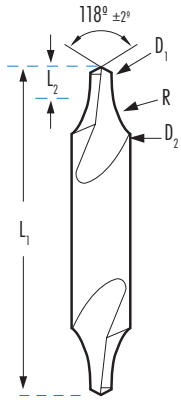
Ref. BC62

DIN 333R







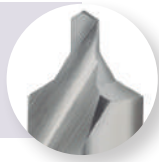


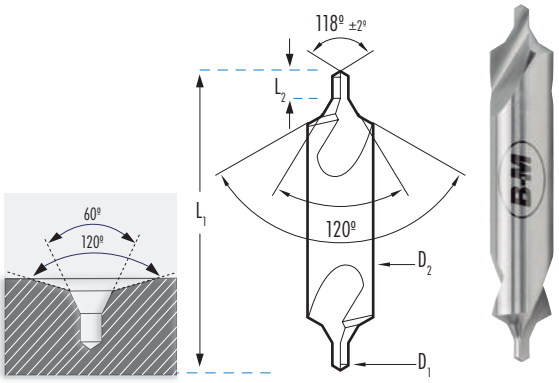


D1 x D2 mm	L1 x L2 mm	BC62 HSS €	BC62MDI MD €
0,50 x 3,00	31 x 2,3	**9,55**	
0,50 x 3,15	25 x 2,3	**6,34**	**46,26**
0,80 x 3,15	25 x 2,6	**6,34**	
1,00 x 3,15	31 x 3,0	**6,34**	**48,27**
1,25 x 3,15	**31 x 3,3**	**6,34**	**48,27**
0,50 x 3,50	35 x 2,7	**9,55**	
0,75 x 3,50	35 x 2,8	**6,34**	
1,00 x 4,00	35 x 3,3	**6,34**	
1,25 x 4,00	**35 x 3,7**	**6,37**	
1,60 x 4,00	37 x 4,0	**6,34**	**52,29**
1,50 x 5,00	40 x 4,5	**7,12**	
1,60 x 5,00	40 x 4,5	**7,12**	
2,00 x 5,00	**42 x 5,0**	**6,88**	**62,34**
2,00 x 6,00	45 x 5,4	**7,96**	
2,00 x 6,30	**45 x 6,0**	**7,96**	
2,50 x 6,30	**47 x 6,0**	**7,62**	**74,41**
2,50 x 8,00	**50 x 7,0**	**8,47**	
3,00 x 8,00	50 x 8,0	**8,47**	
3,15 x 8,00	52 x 8,0	**8,47**	**90,50**
3,00 x 10,00	55 x 8,9	**10,93**	
3,15 x 10,00	56 x 9,0	**10,93**	
4,00 x 10,00	56 x 10,0	**10,93**	**123,88**
4,00 x 12,00	63 x 10,7	**18,39**	
5,00 x 12,00	63 x 11,4	**18,39**	
4,00 x 12,50	63 x 11,0	**18,39**	
5,00 x 12,50	**66 x 13,0**	**18,44**	**197,09**
5,00 x 14,00	69 x 12,8	**25,30**	
5,00 x 16,00	**71 x 15,0**	**26,17**	
6,30 x 16,00	74 x 17,0	**26,22**	
6,00 x 18,00	77 x 16,6	**42,49**	
6,30 x 20,00	80 x 19,0	**46,95**	
8,00 x 20,00	**80 x 21,0**	**49,38**	
10,00 x 25,00	100 x 26,0	**82,55**	
12,50 x 31,50	125 x 33,0	**191,07**	

PUNTE A CENTRARE

Ref. BC63 | DIN 333B | HSS



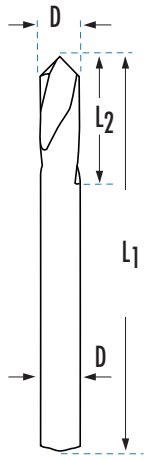


D1 x D2 mm	L1 x L2 mm	BC63 €
0,50 x 3,00	31,00 x 0,6	12,54
0,75 x 4,00	35,00 x 1,0	11,23
1,00 x 4,00	37,50 x 1,60	11,23
1,25 x 5,00	42,00 x 1,90	11,23
1,50 x 5,00	40,00 x 2,00	11,99
1,00 x 6,00	45,00 x 1,30	11,99
2,00 x 6,00	45,00 x 2,50	11,99
1,60 x 6,30	47,00 x 2,40	11,23
1,50 x 8,00	50,00 x 2,00	12,38
2,00 x 8,00	52,00 x 2,90	11,76
2,50 x 8,00	50,00 x 3,10	13,75
3,00 x 8,00	50,00 x 3,90	14,14
2,00 x 10,00	55,00 x 2,50	14,42
2,50 x 10,00	59,00 x 3,60	13,62
3,00 x 10,00	55,00 x 3,90	16,35
4,00 x 10,00	55,00 x 5,00	16,52
3,15 x 11,20	63,00 x 4,40	15,73
2,50 x 12,00	63,00 x 3,10	21,27
4,00 x 12,00	63,00 x 5,00	21,85
5,00 x 12,00	63,00 x 6,30	23,23
3,00 x 14,00	69,00 x 3,90	26,70
4,00 x 14,00	70,00 x 5,60	23,23
5,00 x 14,00	69,00 x 6,30	31,63
4,00 x 16,00	71,00 x 5,00	34,03
4,00 x 18,00	77,00 x 5,00	37,50
5,00 x 18,00	78,00 x 6,90	33,45
6,00 x 18,00	77,00 x 8,00	44,74
5,00 x 20,00	80,00 x 6,30	63,54
6,30 x 20,00	83,00 x 8,60	48,79
6,00 x 25,00	100,00 x 8,00	113,06
6,30 x 25,00	100,00 x 8,00	113,06
8,00 x 25,00	100,00 x 26,00	107,77
10,00 x 31,50	125,00 x 30,00	213,58

PUNTE A CENTRARE CILINDRICHE

Ref. BC75
Ref. BI75
Ref. BC76
HSSCo 5% | TiAlN | DIN 1412A | D_2 TOL h6

Utilizzate per centrare prima di trapanare con la punta. Prepara il foro della punta.
Aumenta la velocità d'attacco durante la perforazione.





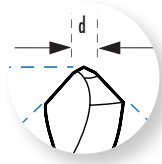


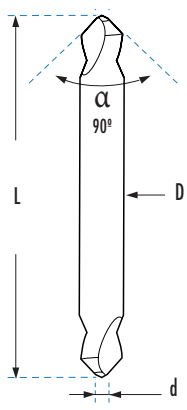
D mm	L1 x L2 mm	BC75 90º €	BI75 90º €	BC76 120º €	BH75 142º NEW €
2,0	49 x 8	12,50		12,50	
3,0	50 x 10	11,87	71,18	11,87	27,90
4,0	52 x 12	13,15	75,92	13,15	27,90
5,0	60 x 15	14,20	80,66	14,20	31,46
6,0	66 x 20	16,20	85,42	16,20	31,46
8,0	79 x 25	22,45	94,89	22,45	35,53
10,0	89 x 25	22,56	106,76	22,56	35,53
12,0	102 x 30	31,27	118,61	31,27	49,01
16,0	115 x 35	64,77		64,77	67,41
20,0	131 x 40	84,64		84,64	132,65

PUNTA DA CENTRO A DOPPIA PUNTA

Ref. DP75 | HSSCo 5% | TiAlN









D x d mm	L mm	DP75 90º €
3,0 x 0,5	40	28,81
4,0 x 1,0	45	28,93
6,0 x 2,0	55	32,80
8,0 x 2,5	65	37,90
10,0 x 3,0	75	40,66
12,0 x 3,5	85	50,17
16,0 x 4,0	90	77,28
20,0 x 5,0	100	126,76

PUNTE A CENTRARE CILINDRICHE

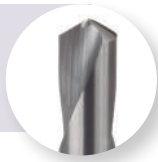
Utilizzate per centrare prima di trapanare con la punta. Prepara il foro della punta.
Aumenta la velocità d'attacco durante la perforazione.

DIN 1412A — D_2 — TOL h6

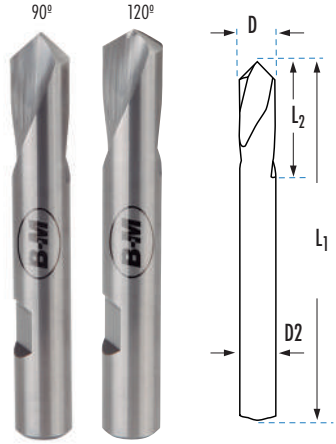
PUNTA DA CENTRO IN METALLO DURO

Ref. BC92
Ref. BC93

MD | DIN 1412A | D2 TOL h6 | D2 DIN 6535HB



D mm	L1 x L2 mm	BC92 90° €	BC93 120° €
1,0	26 x 6	24,98	
1,5	32 x 9	25,35	
2,0	38 x 12	25,62	
3,0	45 x 12	25,98	25,98
4,0	50 x 15	26,24	29,15
5,0	50 x 18	31,26	31,26
6,0	50 x 13	40,99	40,99
8,0	60 x 23	57,69	57,69
10,0	70 x 24	81,78	81,78
12,0	70 x 24	105,62	105,62
14,0	70 x 27	157,28	157,28
16,0	75 x 29	194,34	194,34
18,0	100 x 33	286,43	286,43
20,0	100 x 35	344,61	344,61



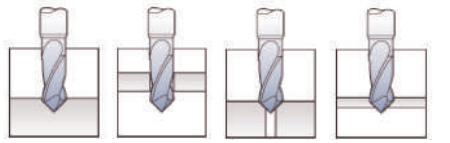
PUNTA A CENTRARE MULTIUSO

Ref. BN75

HSSCo 5% | 120 Kg/mm²









	D mm	L1 x L2 mm	T*	BN75 90° €
BN750300	3,0	50 x 6	0,3	34,09
BN750400	4,0	52 x 8	0,4	36,97
BN750500	5,0	60 x 10	0,5	40,14
BN750600	6,0	66 x 12	0,6	43,01
BN750800	8,0	79 x 14	0,8	51,93
BN751000	10,0	89 x 16	1,0	62,13
BN751200	12,0	102 x 18	1,2	81,24
BN751400	14,0	115 x 21	1,4	114,69
BN751600	16,0	115 x 24	1,6	127,44

T*: Spessore in punta del nocciolo

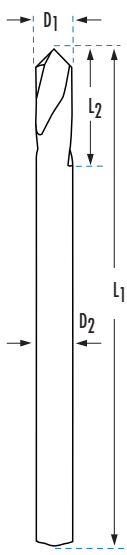
PUNTE A CENTRARE SERIE LUNGA

Ref. BL75

HSSCo 5% | TiAlN | 90°







D1 mm	L1 x L2 mm	BL75 €
3,0	80 x 10	47,45
4,0	100 x 12	52,20
5,0	120 x 15	56,94
6,0	140 x 20	61,69
8,0	140 x 25	68,80
10,0	170 x 25	85,42
12,0	170 x 30	104,39
16,0	200 x 35	139,98
20,0	200 x 40	177,93

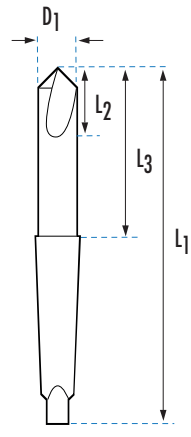
PUNTE A CENTRARE CON CODOLO CONICO

Ref. BP11

HSSCo 5% | 120 Kg/mm² | 90°



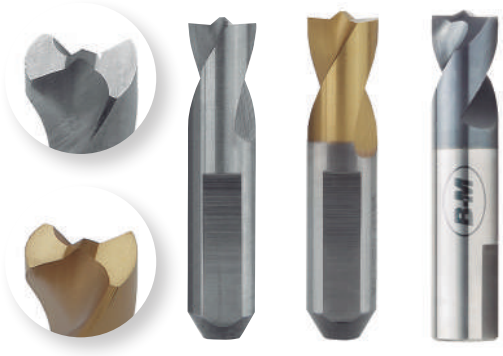




D1 mm	L1 mm	L2 mm	L3 mm	CM	BP11 €
10,0	130	25	64	1	142,35
12,0	130	30	64	1	154,22
16,0	148	35	68	2	189,81
20,0	148	40	68	2	237,26
25,0	171	45	72	3	320,29

PUNTE PER RIMUOVERE LE SALDATURE

PUNTA CORTA PER MACCHINE PNEUMATICHE

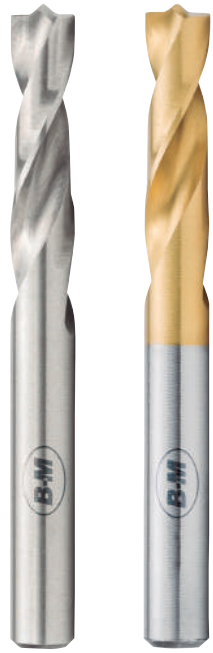


D1 mm	D2 mm	L1 x L2 mm	BC70 HSSCo 8% €	BC71 HSSCo 8% TiN €	BC70MD* MD TiAlN €
6,0	8,0	45 x 18	25,76	33,50	
6,5	6,5	40 x 18	24,71	38,36	77,64
8,0	8,0	38 x 18	21,25	33,50	
8,0	8,0	45 x 18	23,71	38,36	84,74
9,0	8,0	45 x 18	27,14	43,74	
10,0	8,0	45 x 18	29,76	48,03	

* PUNTA SPECIALE BC70MD METALLO DURO + TiAlN

- Punta speciale per saldature al boro.
- Utilizzare con trapani elettrici, non pneumatici.
- 1200 RPM.
- Alta forza propulsiva.
- Sempre con "CUT-MAGIC".

PUNTA LUNGA PER MACCHINE ELETTROPORTATILI



Ø mm	L1 x L2 mm	BC60 HSSCo 5% €	BC69 HSSCo 5% TiN €
6,0	66 x 26	11,99	21,43
7,0	74 x 34	17,52	27,89
8,0	79 x 36	16,36	30,21
10,0	89 x 44	20,60	31,93

INSIEME DA TAGLIO: ALBERO, CORONA E PUNZONE



EBC70-1
23,50 €

CORONA DA TAGLIO: DI 9,5 mm



EBC70-2
16,98 €

PUNZONE



EBC70-3
1,04 €



EBC70

Composizione:
1 Insieme da taglio Ref. EBC70-1
5 Corone da taglio di 9,5 mm Ref. EBC70-2
2 Punzoni Ref. EBC70-3
1 Punta Ref. BC60 Ø 8 mm

106,53 €

PUNTE-FRESE

PER TRAPANARE E CONTORNARE LEGNO, LAMIERA E PLASTICA





* Punta speciale per carrozzieri

Ø mm	L1 x L2 mm	BC80 HSS €	BC81 TiN €
6,0	90 x 60	18,08	28,36
8,0	90 x 60	23,25	36,30

PUNTA-FRESA IN METALLO DURO

Ref. BC91

MD

Utilizzate per trapanare, centrare, fresare e svasare.

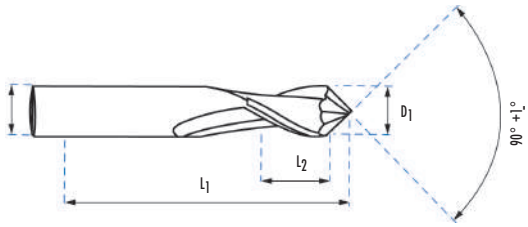


50 HRc

Ti | INC | Ni | INOX | PVC

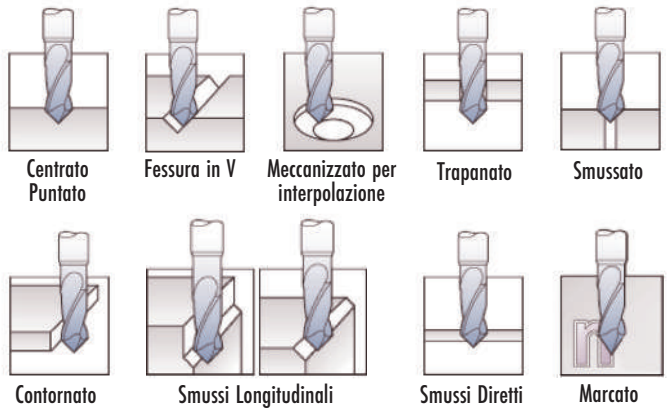


D2 TOL h6



D1 TOL h9

D1 mm	D2 mm	L1 x L2 mm	BC91 €
3,0	3,0	50 x 6	88,63
4,0	4,0	50 x 8	91,94
5,0	5,0	50 x 10	100,09
6,0	6,0	60 x 12	118,20
8,0	8,0	70 x 16	164,16
10,0	10,0	70 x 18	206,87
12,0	12,0	70 x 20	206,87
14,0	14,0	88 x 30	246,76
16,0	16,0	80 x 26	295,49
20,0	20,0	100 x 32	522,03



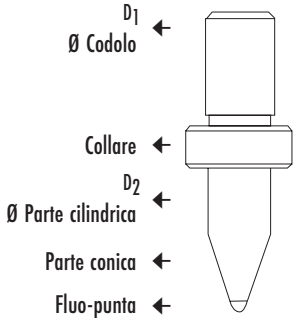
FLUO-PUNTE PER FILETTARE PARETI SOTTILI



Ref. FLUOB



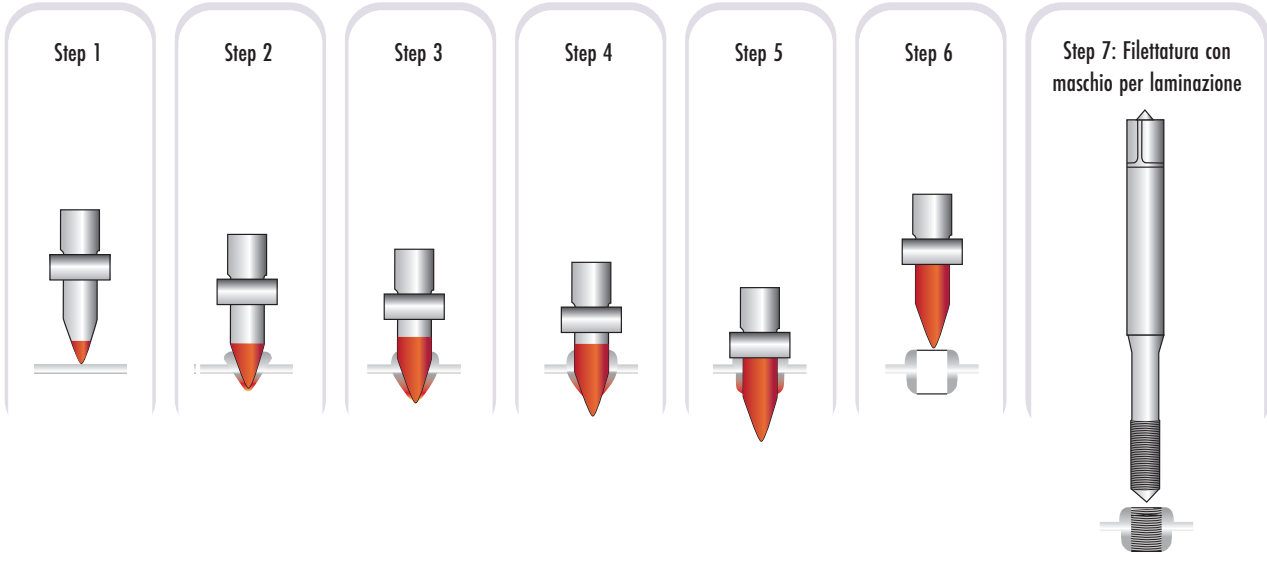
Ref. FLUOBP







					FLUOB		FLUOBP
	e max. mm	D_1 mm	D_2 mm	R.P.M.		€		€
M3x0,50	1,7	6	2,7	3000	FLUOBM03	**136,50**	FLUOBPM03	**191,10**
M4x0,70	1,7	6	3,7	2600	FLUOBM04	**141,45**	FLUOBPM04	**198,05**
M5x0,80	2,0	8	4,5	2500	FLUOBM05	**147,73**	FLUOBPM05	**206,84**
M6x1,00	2,0	8	5,3	2400	FLUOBM06	**157,48**	FLUOBPM06	**220,47**
M8x1,25	2,4	8	7,3	2200	FLUOBM08	**194,29**	FLUOBPM08	**272,03**
M10x1,50	2,6	10	9,2	2000	FLUOBM10	**220,19**	FLUOBPM10	**308,27**
M12x1,75	3,0	12	10,9	1800	FLUOBM12	**231,71**	FLUOBPM12	**324,40**
M16x2,00	3,4	16	14,8	1200	FLUOBM16	**319,59**	FLUOBPM16	**415,91**
M20x2,50	3,8	18	18,7	800	FLUOBM20	**451,13**	FLUOBPM20	**586,32**



CUT MAGIC PASTY (250ml.e 750ml.)

		UNITÀ DI IMBALLAGGIO	PASTY €
ACPU00250	0,250 l.	1 Latta	**28,92**
ACPU00750	0,750 l.	1 Latta	**43,76**





Ref. ACPU00250



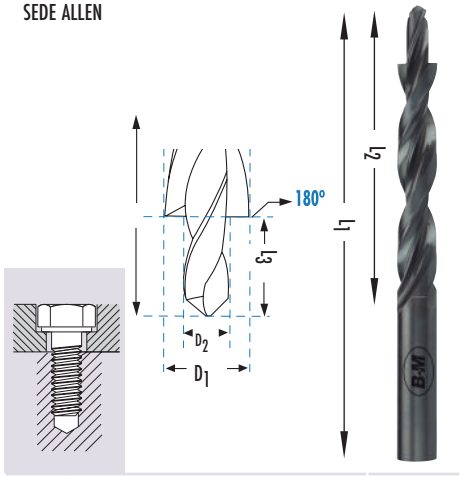
Ref. ACPU00750

PUNTE A DOPPIO DIAMETRO HSS

CODOLO CILINDRICO E CODOLO CONICO

Ref. BC26 | HSS | DIN 8376 | 180°

SEDE ALLEN

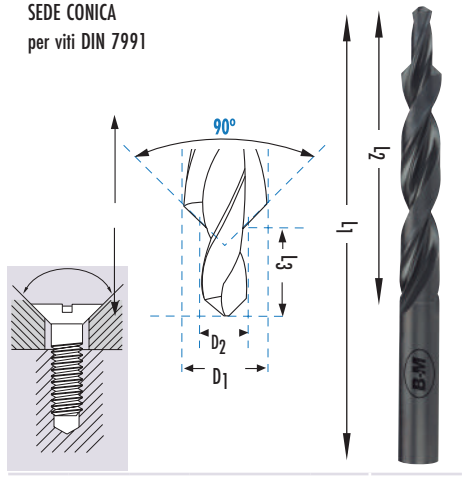


BC26

	D2 mm	D1 mm	L1 x L2 mm	L3 mm	€
M3	3,4	6	93 x 57	9	52,08
M4	4,5	8	117 x 75	11	54,62
M5	5,5	10	133 x 87	13	65,51
M6	6,6	11	142 x 94	15	73,36
M8	9,0	15	169 x 114	19	90,11
M10	11,0	18	191 x 130	23	179,08

Ref. BC24 | HSS | DIN 8374 | 90°

SEDE CONICA
per viti DIN 7991

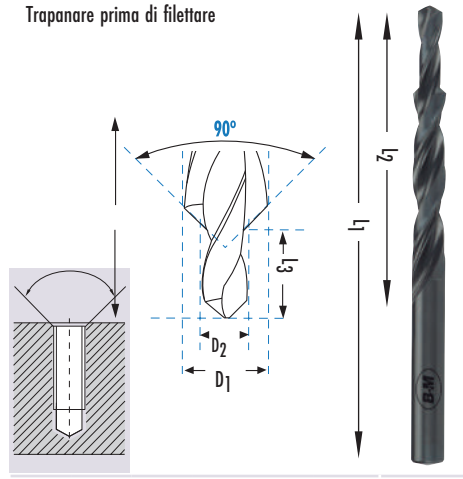


BC24

	D2 mm	D1 mm	L1 x L2 mm	L3 mm	€
M3	3,2	6,0	93 x 57	9	60,76
M4	4,3	8,0	117 x 75	11	63,72
M5	5,3	10,0	133 x 87	13	75,74
M6	6,4	11,5	142 x 94	15	86,50
M8	8,4	15,0	169 x 114	19	118,34
M10	10,5	19,0	198 x 135	23	182,72

Ref. BC28 | HSS | DIN 8378 | 90°

Trapanare prima di filettare

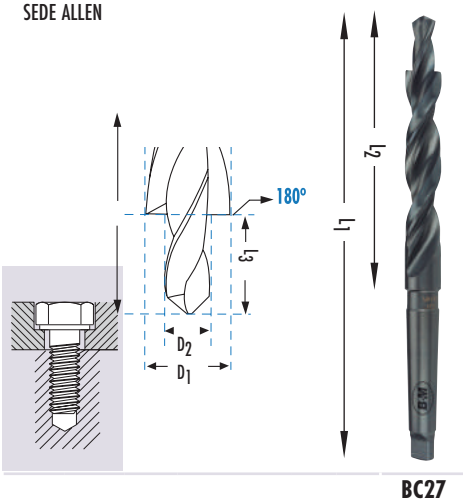


BC28

	D2 mm	D1 mm	L1 x L2 mm	L3 mm	€
M3	2,5	3,4	70 x 39	8,8	47,14
M4	3,3	4,5	80 x 47	11,8	50,73
M5	4,2	5,5	93 x 57	13,6	54,65
M6	5,0	6,6	101 x 63	16,5	62,16
M8	6,8	9,0	125 x 81	21,0	74,07
M10	8,5	11,0	142 x 94	25,5	86,42
M12	10,2	13,5	160 x 108	30,0	107,59

Ref. BC27 | HSS | DIN 8377 | 180°

SEDE ALLEN

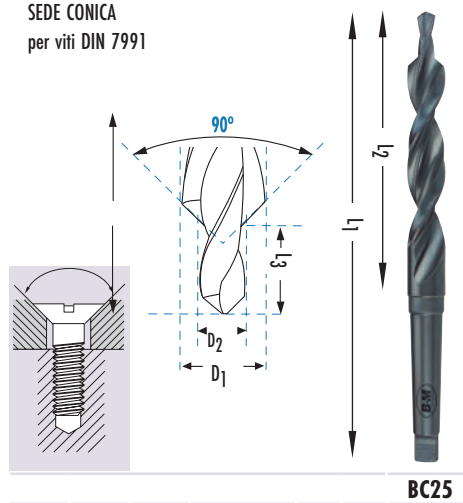


BC27

	D2 mm	D1 mm	L1 x L2 mm	L3 mm	CM	€
M6	6,6	11	175 x 94	15	1	146,15
M8	9,0	15	212 x 114	19	2	150,94
M10	11,0	18	228 x 130	23	2	170,18
M12	13,5	20	238 x 140	27	2	190,35
M14	15,5	24	281 x 160	31	3	269,92
M16	17,5	26	286 x 165	35	3	384,89
M18	20,0	30	296 x 175	39	3	430,41
M20	22,0	33	334 x 185	43	4	486,65

Ref. BC25 | HSS | DIN 8375 | 90°

SEDE CONICA
per viti DIN 7991

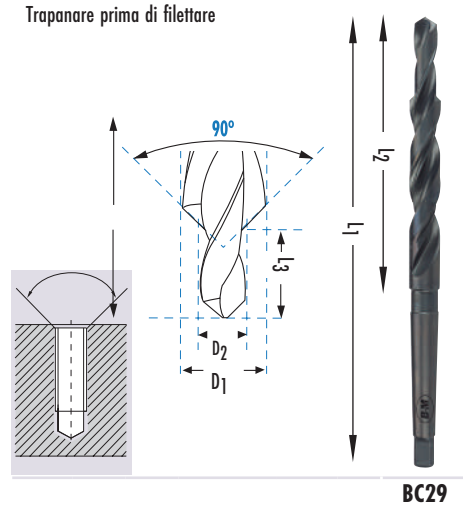


BC25

	D2 mm	D1 mm	L1 x L2 mm	L3 mm	CM	€
M5	5,5	11,0	175 x 94	13	1	146,00
M6	6,6	13,0	182 x 101	15	1	148,96
M8	9,0	17,2	228 x 130	19	2	177,53
M10	11,0	21,5	248 x 150	23	2	210,17

Ref. BC29 | HSS | DIN 8379 | 90°

Trapanare prima di filettare

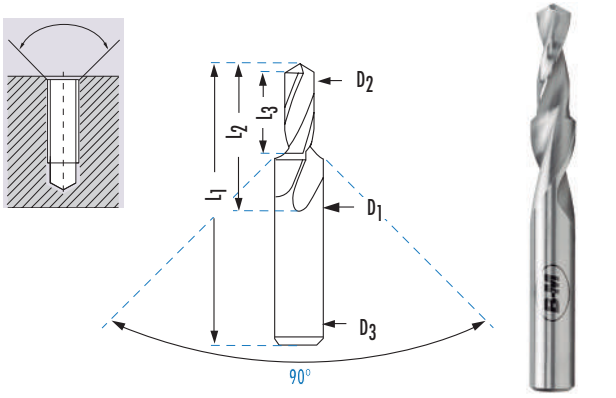


BC29

	D2 mm	D1 mm	L1 x L2 mm	L3 mm	CM	€
M8	6,8	9,0	162 x 81	21,0	1	133,92
M10	8,5	11,0	175 x 94	25,5	1	145,90
M12	10,2	13,5	189 x 108	30,0	1	172,35
M14	12,0	15,5	218 x 120	34,5	2	183,92
M16	14,0	17,5	228 x 130	38,5	2	198,48
M18	15,5	20,0	238 x 140	43,5	2	222,00
M20	17,5	22,0	248 x 150	47,5	2	268,43

PUNTE EXTRA CORTE A GRADINO

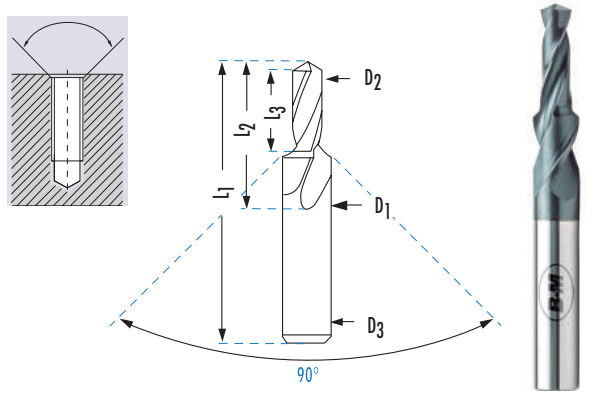
Ref. BC36 — HSSCo 5% — 90°



BC36

	D1 mm	D2 mm	D3 mm	L1 x L2 mm	L3 mm	€
M3	3,4	2,5	3,4	52 x 20	8	27,07
M4	4,5	3,3	4,5	58 x 24	11	27,76
M5	5,5	4,2	5,5	66 x 28	13	30,87
M6	6,6	5,0	6,6	70 x 31	16	33,55
M8	9,0	6,8	9,0	84 x 40	20	40,27
M10	11,0	8,5	11,0	95 x 47	24	53,01
M12	14,0	10,2	14,0	107 x 54	29	71,13
M14	16,0	12,0	16,0	115 x 56	32	181,20
M16	18,0	14,0	18,0	135 x 60	34	228,17

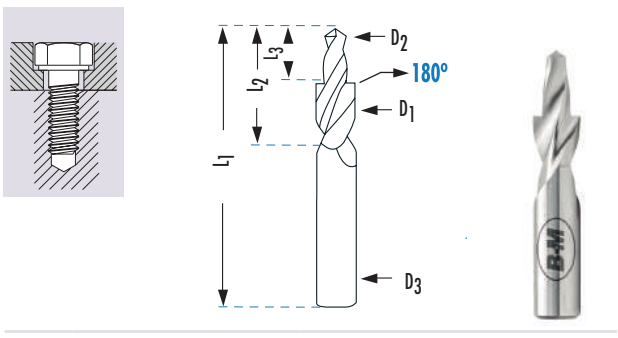
Ref. BCMD36 — MD — 90° — TiAlN



BCMD36

	D1 mm	D2 mm	D3 mm	L1 x L2 mm	L3 mm	€
M3	6,0	2,5	6,0	66 x 20	8,8	53,69
M4	6,0	3,3	6,0	66 x 24	11,4	62,63
M5	6,0	4,2	6,0	66 x 28	13,6	67,10
M6	8,0	5,0	8,0	79 x 31	16,5	78,29
M8	10,0	6,8	10,0	89 x 40	21,0	107,37
M10	12,0	8,5	12,0	102 x 47	25,5	145,42
M12	14,0	10,2	14,0	107 x 54	30,0	201,32

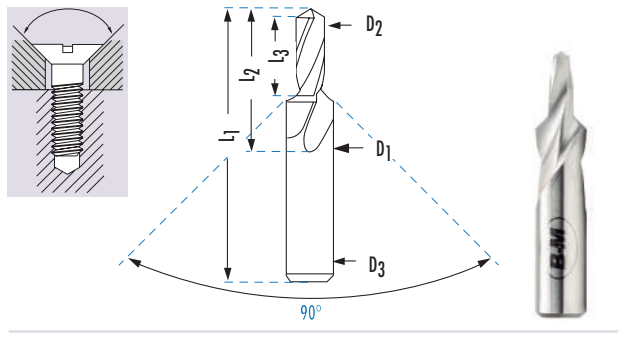
Ref. BC74 — HSSCo 5% — 180°



BC74

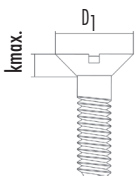
	D1 mm	D2 mm	D3 mm	L1 x L2 mm	L3 mm	€
M2	4,3	2,4	4,3	45 x 12	6	20,63
M3	6,0	3,4	6,0	45 x 18	9	20,98
M4	8,0	4,5	8,0	50 x 22	11	24,91
M5	10,0	5,5	10,0	55 x 26	13	27,75
M6	11,0	6,6	11,0	63 x 30	15	34,86
M8	15,0	9,0	12,5	100 x 34	19	65,45
M10	18,0	11,0	12,5	110 x 42	23	95,32
M12	20,0	14,0	12,5	110 x 34	28	125,20
M14	24,0	16,0	12,5	120 x 42	34	253,24

Ref. BC34 — HSSCo 5% — 90°



BC34

	D1 mm	D2 mm	D3 mm	L1 x L2 mm	L3 mm	€
M2	4,6	2,2	4,6	45 x 12	6	20,63
M3	6,5	3,2	6,5	45 x 18	9	20,98
M4	8,6	4,3	8,6	50 x 26	11	24,91
M5	10,4	5,3	10,4	55 x 30	13	27,75
M6	12,4	6,4	12,4	63 x 34	15	34,86
M8	16,4	8,4	12,5	100 x 42	19	65,45
M10	20,4	10,5	12,5	110 x 34	23	95,32
M12	25,0	13,0	12,5	120 x 42	28	253,24



DIN 7991

	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20
Kmax.	1,2	1,5	1,7	2,3	2,8	3,3	4,4	5,5	6,5	7	7,5	8	8,5
D1	4	5	6	8	10	12	16	20	24	27	30	33	36

PUNTE ELICOIDALI CON CODOLO CONICO DIN 345

DIN 345



Per praticare fori superiori a Ø25 mm si consiglia di realizzare un preforo di un terzo del diametro finale.
Esempio; se utilizzerà una punta di Ø30 mm, realizzi un preforo di Ø10 mm.

			BC11	BC22	BC32	BC21	BC13
		MATERIALE	HSS	HSSCo 5%	HSSCo 5%	HSS	PMD
		TIPO DI AFFILATURA					
		ANGOLO DI TAGLIO	118°	135°	135°	118°	118°
		ELICA	30° "N"	30° "N"	38° "S"	30° "N"	30° "N"
		FINITURA	OX	OX	OX	TiN	BRILLANTE
		APPLICAZIONE	70 Kg/mm²	120 Kg/mm²	INOX	PRODUZIONE	GHISA
Ø mm	L1 x L2	CM	€	€	€	€	€
3,00	114 x 33	1	40,66				
3,50	120 x 43	1	40,21				
4,00	124 x 43	1	40,84				
4,50	128 x 47	1	43,46				
5,00	133 x 52	1	25,60				
5,25	133 x 52	1	29,43				
5,50	138 x 57	1	25,60				
5,75	138 x 57	1	29,43				
6,00	138 x 57	1	25,60				
6,25	144 x 63	1	33,54				
6,50	144 x 63	1	27,18				
6,75	150 x 69	1	31,32				
7,00	150 x 69	1	27,06				
7,25	150 x 69	1	35,97				
7,50	150 x 69	1	23,39				
7,75	156 x 75	1	28,78				
8,00	156 x 75	1	23,26			44,47	
8,25	156 x 75	1	33,85				
8,50	156 x 75	1	25,27			44,97	
8,75	162 x 81	1	30,35				
9,00	162 x 81	1	25,28			44,77	
9,25	162 x 81	1	33,44				
9,50	162 x 81	1	27,25			44,77	
9,75	168 x 87	1	35,55				
10,00	168 x 87	1	26,11	59,04		44,39	82,39
10,25	168 x 87	1	30,79				
10,50	168 x 87	1	27,58	71,73		46,67	81,92

			BC11	BC22	BC32	BC21	BC13
Ø mm	L1 x L2 mm	CM	€	€	€	€	€
10,75	175 x 94	1	31,78				
11,00	175 x 94	1	28,61	60,86		47,61	85,81
11,25	175 x 94	1	34,93				
11,50	175 x 94	1	30,39	67,45		48,86	88,93
11,75	175 x 94	1	34,94				
12,00	182 x 101	1	30,53	59,08		36,12	89,58
12,25	182 x 101	1	36,61				
12,50	182 x 101	1	30,77	62,29		50,40	93,02
12,75	182 x 101	1	36,62				
13,00	182 x 101	1	32,08	62,23	81,36	51,47	105,90
13,25	189 x 101	1	40,52				
13,50	189 x 101	1	33,85	66,15	98,33	53,10	105,61
13,75	189 x 101	1	45,58				
14,00	189 x 108	1	38,11	70,13	93,47	42,66	111,02
14,25	212 x 114	2	43,87				
14,50	212 x 114	2	38,13	107,47	114,70	71,26	115,03
14,75	212 x 114	2	43,86				
15,00	212 x 114	2	42,90	108,30	109,04	71,26	130,17
15,25	218 x 120	2	50,77				
15,50	218 x 120	2	44,16	113,39	112,53	73,33	138,64
15,75	218 x 120	2	50,77	131,71	140,65		
16,00	218 x 120	2	44,39	112,91	112,53	48,37	138,55
16,25	223 x 125	2	51,03				
16,50	223 x 125	2	44,59	101,15	119,44	74,82	133,43
16,75	223 x 125	2	51,03				
17,00	223 x 125	2	44,59	113,87	119,44	74,44	147,25
17,25	228 x 130	2	56,51				
17,50	228 x 130	2	49,32	122,93	126,35	80,18	147,05
17,75	228 x 130	2	63,56	153,67	168,78		
18,00	228 x 130	2	53,29	117,39	135,03	55,21	159,17
18,25	233 x 135	2	62,13				
18,50	233 x 135	2	54,28	122,32	140,22	82,15	186,03
18,75	233 x 135	2	62,55				
19,00	233 x 135	2	54,47	127,12	140,22	69,14	185,75
19,25	238 x 140	2	67,66				
19,50	238 x 140	2	58,88	131,60	147,13	88,02	208,62
19,75	238 x 140	2	68,09				
20,00	238 x 140	2	58,94	140,73	147,13	72,72	209,12
20,25	243 x 145	2	79,27				
20,50	243 x 145	2	68,71	153,91	171,37	89,36	212,50
20,75	243 x 145	2	79,27				
21,00	243 x 145	2	68,71	166,87	171,37	88,95	212,50
21,25	248 x 150	2	87,47				
21,50	248 x 150	2	75,77	179,89	186,95	94,10	231,67
21,75	248 x 150	2	87,47	224,85	233,70		
22,00	248 x 150	2	75,92	180,94	186,95	84,69	231,67
22,00*	265 x 150	3	103,20				
22,25	248 x 150	2	85,11				
22,50	253 x 155	2	79,99	202,95	197,33	102,47	232,05
22,75	253 x 155	2	106,38				
23,00	253 x 155	2	92,08	197,49	214,63	101,72	251,69
23,25	276 x 155	3	93,86				
23,50	276 x 155	3	95,95	228,35	258,77	122,58	256,34
23,75	281 x 160	3	93,98				
24,00	281 x 160	3	101,97	193,38	238,89	105,10	276,64

Cono rinforzato, DIN 346, su richiesta

PUNTE ELICOIDALI CON CODOLO CONICO DIN 345

DIN 345



Per praticare fori superiori a Ø25 mm si consiglia di realizzare un preforo di un terzo del diametro finale.
Esempio; se utilizzerà una punta di Ø30 mm, realizzi un preforo di Ø10 mm.

			BC11	BC22	BC32	BC21	BC13
	MATERIALE		HSS	HSSCo 5%	HSSCo 5%	HSS	PMD
	TIPO DI AFFILATURA						
	ANGOLO DI TAGLIO		118°	135°	135°	118°	118°
	ELICA		30° "N"	30° "N"	38° "S"	30° "N"	30° "N"
	FINITURA		OX	OX	OX	TiN	BRILLANTE
	APPLICAZIONE		70 Kg/mm²	120 Kg/mm²	INOX	PRODUZIONE	GHISA
Ø mm	L1 x L2	CM	€	€	€	€	€
24,25	281x160	3	114,78				
24,50	281x160	3	105,55	239,64	282,09	129,46	281,33
24,75	281x160	3	115,19	401,35			
25,00	281x160	3	99,77	209,45	221,55	115,42	283,55
25,25	286x165	3	125,62				
25,50	286x165	3	109,18	301,61	330,79	146,20	336,48
25,75	286x165	3	125,29				
26,00	286x165	3	120,60	231,87	280,41	121,25	318,94
26,25	286x165	3	150,74				
26,50	286x165	3	130,57	320,19	330,77	151,67	369,71
26,75	291x170	3	150,74				
27,00	291x170	3	130,71	247,55	301,16	127,04	339,05
27,25	291x170	3	161,34				
27,50	291x170	3	134,36	379,14		159,32	407,27
27,75	291x170	3	145,21	618,19	663,92		
28,00	291x170	3	126,20	266,11	311,61	133,07	375,92
28,25	296x175	3	155,75				
28,50	296x175	3	134,91	382,58		167,29	443,77
28,75	296x175	3	155,76				
29,00	296x175	3	134,90	286,95	339,28	152,12	400,13
29,25	296x175	3	171,26				
29,50	296x175	3	148,55	391,27		199,75	484,03
29,75	296x175	3	171,26	647,15	647,96		
30,00	296x175	3	148,62	305,54	356,56	157,95	425,34
30,25	301x180	3	190,65				
30,50	301x180	3	165,82	449,76			
30,75	301x180	3	190,74				

			BC11	BC22	BC32	BC21	BC13
Ø mm	L1 x L2 mm	CM	€	€	€	€	€
31,00	301x180	3	165,99	303,83		196,03	
31,25	301x180	3	201,98				
31,50	301x180	3	174,54	466,71			
31,75	306x185	3	224,42		566,90		
32,00	334x185	4	178,72	466,16	453,51	205,12	539,92*
32,00	334x185	3	325,59				
32,25	334x185	4	235,74				
32,50	334x185	4	200,83				
32,75	334x185	4	235,74				
33,00	334x185	4	199,64	537,97		223,26	650,18*
33,25	334x185	4	246,24				
33,50	334x185	4	217,81				
33,75	339x190	4	247,58				
34,00	339x190	4	217,14	594,94		317,26	657,49*
34,25	339x190	4	270,58				
34,50	339x190	4	237,15				
34,75	339x190	4	270,58	646,81			
35,00	339x190	4	238,33	636,94	621,38	349,82	
35,25	339x190	4	289,98				
35,50	339x190	4	254,41				
35,75	344x195	4	297,75				
36,00	344x195	4	255,05	684,30		363,06	1.045,94*
36,25	344x195	4	312,94				
36,50	344x195	4	269,74				
36,75	344x195	4	312,92				
37,00	344x195	4	269,39	701,25		373,65	1.129,70*
37,25	344x195	4	333,53				
37,50	344x195	4	335,54				
37,75	344x195	4	361,85				
38,00	349x200	4	282,92	724,46		384,33	
38,25	349x200	4	391,62				
38,50	349x200	4	334,53				
38,75	349x200	4	391,62				
39,00	349x200	4	334,79	741,31		398,73	1.249,23*
39,25	349x200	4	393,91				
39,50	349x200	4	354,58				
39,75	349x200	4	393,91				
40,00	349x200	4	354,10	863,14		411,68	1.288,67*
40,50	354x205	4	371,20				
41,00	354x205	4	371,67	907,35			
41,50	354x205	4	395,05				
42,00	354x205	4	394,25	950,04			
42,50	354x205	4	414,31				
43,00	359x210	4	414,33	996,19			
43,50	359x210	4	433,79				
44,00	359x210	4	434,08	1.034,41			
44,50	359x210	4	453,97				
45,00	359x210	4	454,32	1.081,75			
45,50	364x215	4	472,05				
46,00	364x215	4	470,08				
46,50	364x215	4	491,32				
47,00	364x215	4	491,09	1.168,83			
47,50	364x215	4	507,82				
48,00	369x220	4	507,46	1.217,82			
48,50	369x220	4	527,99				

Cono rinforzato, DIN 346, su richiesta

*Fino ad esaurimento scorte.

PUNTA ELICOIDALE CON CODOLO CONICO DIN 345

Ref. BC11

DIN 345 | HSS | 118° | 30° "N" | OX | 70 Kg/mm²



Ø mm	L1 x L2 mm	CM	BC11 €
49,00	**369x220**	4	**525,76**
49,50	369x220	4	**542,30**
50,00	**369x220**	4	**548,12**
50,50	369x220	4	**784,86**
51,00	**412x225**	5	**642,73**
51,50	412x225	5	**861,45**
52,00	412x225	5	**686,91**
52,50	412x225	5	**882,43**
53,00	412x225	5	**735,68**
53,50	412x225	5	**923,09**
54,00	417x230	5	**809,56**
54,50	417x230	5	**913,84**
55,00	**417x230**	5	**801,43**
56,00	417x230	5	**901,78**
57,00	422x235	5	**957,99**
58,00	422x235	5	**966,18**
59,00	422x235	5	**995,18**
60,00	**422x235**	5	**942,06**
61,00	427x240	5	**1.105,02**
62,00	427x240	5	**1.150,88**
63,00	427x240	5	**1.217,12**
64,00	432x245	5	**1.284,15**
65,00	**432x245**	5	**1.229,58**
66,00	432x245	5	**1.330,84**
67,00	432x245	5	**1.431,00**
68,00	437x250	5	**1.468,11**
69,00	437x250	5	**1.513,76**
70,00	**437x250**	5	**1.435,27**
71,00	437x250	5	**1.657,08**
72,00	442x255	5	**1.691,40**
73,00	442x255	5	**1.735,67**
74,00	442x255	5	**1.786,47**
75,00	**442x255**	5	**1.682,77**
76,00	447x260	5	**1.981,48**
77,00	514x260	6	**2.126,37**
78,00	514x260	6	**2.167,91**
79,00	514x260	6	**2.211,59**
80,00	**514x260**	6	**2.783,70**
81,00	519x265	6	**3.080,41**
82,00	519x265	6	**3.157,40**
83,00	519x265	6	**3.217,95**
84,00	519x265	6	**3.286,25**
85,00	**519x265**	6	**3.367,44**
86,00	524x270	6	**3.440,96**
87,00	524x270	6	**3.514,04**
88,00	524x270	6	**3.604,36**
89,00	524x270	6	**3.674,11**
90,00	**524x270**	6	**3.779,27**
91,00	529x275	6	**3.986,03**
92,00	529x275	6	**4.009,00**
93,00	529x275	6	**4.151,98**
94,00	529x275	6	**4.236,32**
95,00	**529x275**	6	**4.323,38**
96,00	534x280	6	**4.465,81**
97,00	534x280	6	**4.503,28**
98,00	534x280	6	**4.603,73**
99,00	534x280	6	**4.686,99**
100,00	**534x280**	6	**4.776,39**

Cono rinforzato, DIN 346, su richiesta



Ref. EXPBC11MC

ESPOSITORE 15 PUNTE CODOLO CONICO

Cono Morse						DIN 345
nº 1	14 1	15 1	16 1	17 1	18 1	
nº 2	19 1	20 1	21 1	22 1	23 1	
nº 3	24 1	25 1	26 1	28 1	30 1	

Dimensioni: larghezza 280 x profondità 212/50 x altezza 155 mm — **1.170,56 €**

SOVRAPPREZZO PER RIDURRE CODOLI CONICI



	nº 2-1	nº 2-0
	nº 3-2	nº 3-1
	nº 4-3	nº 4-2
€ NETTI	**53,30**	**79,95**

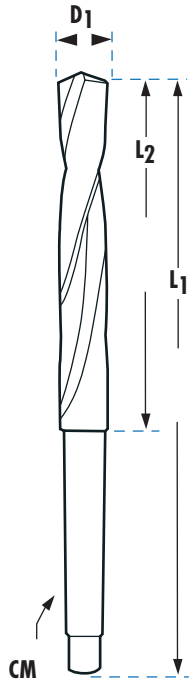
Lunghezza massima 370 mm per incavo cono morse

PUNTA CON CODOLO CONICO PER FORARE MATERIALI DURI E RESISTENTI

Ref. BC73

HSSCo 8% | 135° | 15° "N" | OX | HARDOX 450

	D1 mm	L1 mm	L2 mm	CM	BC73 €
BC731000	**10,00**	**175**	**76**	**2**	**58,87**
BC731020	10,20	175	76	2	**58,87**
BC731100	11,00	175	76	2	**58,87**
BC731200	**12,00**	**179**	**81**	**2**	**64,49**
BC731250	12,50	179	81	2	**64,49**
BC731300	13,00	179	81	2	**64,49**
BC731400	**14,00**	**184**	**86**	**2**	**68,64**
BC731450	14,50	187	89	2	**69,55**
BC731500	15,00	187	89	2	**69,99**
BC731550	15,50	187	89	2	**79,50**
BC731600	**16,00**	**187**	**89**	**2**	**83,29**
BC731650	16,50	190	92	2	**87,14**
BC731700	17,00	190	92	2	**88,78**
BC731800	**18,00**	**190**	**92**	**2**	**90,11**
BC731850	18,50	213	95	3	**100,44**
BC731900	19,00	213	95	3	**102,38**
BC732000	**20,00**	**213**	**95**	**3**	**108,85**
BC732100	21,00	219	102	3	**118,55**
BC732200	22,00	222	105	3	**136,29**
BC732400	**24,00**	**222**	**105**	**3**	**146,83**
BC732500	**25,00**	**225**	**108**	**3**	**173,98**
BC732600	26,00	270	124	4	**206,15**
BC732700	27,00	270	124	4	**213,41**
BC732800	**28,00**	**270**	**124**	**4**	**219,46**
BC733000	30,00	270	124	4	**234,52**
BC733200	32,00	280	133	4	**298,02**
BC733500	**35,00**	**292**	**136**	**4**	**372,38**
BC733600	36,00	292	146	4	**391,65**
BC734000	40,00	298	152	4	**478,67**
BC734500	45,00	298	152	4	**651,02**
BC735000	**50,00**	**356**	**152**	**5**	**764,81**
BC735500	55,00	360	156	5	**954,05**
BC736000	**60,00**	**360**	**156**	**5**	**1.164,35**





Punta speciale per HARDOX 450

Per praticare fori superiori a Ø25 mm si consiglia di realizzare un preforo di un terzo del diametro finale.
Esempio; se utilizzerà una punta di Ø30 mm, realizzi un preforo di Ø10 mm.

PUNTA CON CODOLO CONICO PER FORARE MATERIALI DURI E RESISTENTI

Ref. BC22..FT

DIN 345 | HSSCo 5% | TiN | DIN 1412D | 130° | 30° "N" | 120 Kg/mm² | HARDOX 450

	D1 mm	L1 mm	L2 mm	CM	BC22...FT €
BC221600FT	16,00	218	120	2	**106,00**
BC221800FT	18,00	228	130	2	**115,31**
BC222000FT	20,00	238	140	2	**138,24**
BC222200FT	22,00	248	150	2	**163,58**
BC222400FT	24,00	281	160	3	**205,08**
BC222500FT	25,00	281	160	3	**214,86**
BC222600FT	26,00	286	165	3	**253,97**
BC222800FT	28,00	291	170	3	**312,30**
BC223000FT	30,00	296	175	3	**308,59**
BC223200FT	32,00	334	185	4	**349,18**
BC223400FT	34,00	339	190	4	**449,80**
BC223600FT	36,00	344	195	4	**507,80**



- La migliore soluzione per eseguire fori di grande diametro in materiali ad alta durezza.
- Affilatura speciale di materiali molto duri, con taglio corretto e abbattimento del taglio laterale del bordo.



Punta speciale per HARDOX 450

Questa punta fu utilizzata storicamente per trapanare le rotaie delle ferrovie.

PUNTE ELICOIDALI CON CODOLO CONICO SERIE LUNGA

DIN 341

Ref. BC12



Ref. BC56



			BC12	BC56
MATERIALE			HSS	HSSCo 5%
TIPO DI AFFILATURA				
ANGOLO DI TAGLIO			118°	135°
ELICA			30° "N"	38° "S"
FINITURA			OX	OX
APPLICAZIONE			70 Kg/mm²	120 Kg/mm²
Ø mm	L1 x L2	CM	€	€
5,00	155x74	1	24,22	
5,50	161x80	1	32,46	
6,00	161x80	1	25,75	
6,50	167x86	1	26,29	
7,00	174x93	1	27,90	
7,50	174x93	1	29,34	
8,00	181x100	1	29,87	
8,50	181x100	1	29,87	
9,00	188x107	1	32,95	
9,50	188x107	1	36,04	
10,00	197x116	1	37,11	78,24
10,25	197x116	1	44,41	
10,50	197x116	1	38,60	
10,75	206x125	1	56,59	
11,00	206x125	1	37,11	85,68
11,25	206x125	1	56,59	
11,50	206x125	1	35,82	
11,75	206x125	1	51,08	
12,00	215x134	1	38,10	96,36
12,25	215x134	1	51,08	
12,50	215x134	1	39,29	
12,75	215x134	1	54,80	
13,00	215x134	1	39,29	100,79
13,25	223x142	1	57,12	
13,50	223x142	1	42,82	
13,75	223x142	1	61,72	
14,00	223x142	1	45,87	115,89
14,25	245x147	2	77,01	
14,50	245x147	2	57,71	
14,75	245x147	2	77,01	
15,00	245x147	2	57,71	134,57
15,25	251x153	2	76,26	
15,50	251x153	2	54,64	140,03
15,75	251x153	2	79,08	
16,00	251x153	2	58,74	140,03
16,25	257x159	2	86,02	
16,50	257x159	2	63,86	148,30
16,75	257x159	2	86,02	
17,00	257x159	2	63,86	148,30
17,25	263x165	2	84,19	
17,50	263x165	2	67,86	156,52
17,75	263x165	2	95,71	
18,00	263x165	2	71,06	167,51
18,25	269x171	2	96,09	
18,50	269x171	2	77,13	174,35
18,75	269x171	2	99,19	
19,00	269x171	2	74,98	174,35
19,25	275x177	2	104,09	
19,50	275x177	2	84,28	181,75
19,75	275x177	2	105,36	
20,00	275x177	2	80,40	181,75
20,50	282x184	2	97,50	211,43
21,00	282x184	2	92,25	211,43
21,50	289x191	2	111,28	230,65
22,00	289x191	2	105,01	230,65
22,50	296x198	2	114,75	244,38
23,00	296x198	2	100,87	263,62
23,50	319x198	3	133,60	271,84
24,00	327x206	3	134,87	296,56
24,50	327x206	3	143,23	307,54
25,00	327x206	3	129,44	288,33
25,50	335x214	3	162,61	
26,00	335x214	3	142,16	340,49
26,50	335x214	3	167,74	
27,00	343x222	3	147,31	373,43
27,50	343x222	3	197,75	
28,00	343x222	3	175,13	384,41
28,50	351x230	3	234,70	
29,00	351x230	3	191,79	417,39
29,50	351x230	3	234,90	
30,00	351x230	3	196,69	439,33
30,50	360x239	3	268,58	
31,00	360x239	3	248,42	494,25
31,50	360x239	3	288,10	
32,00	397x248	4	249,38	549,18
32,50	397x248	4	315,73	
33,00	397x248	4	265,75	
33,50	397x248	4	311,73	
34,00	406x257	4	323,48	
34,50	406x257	4	342,51	
35,00	406x257	4	325,43	
35,50	406x257	4	342,51	
36,00	416x267	4	374,45	
36,50	416x267	4	473,87	
37,00	416x267	4	403,32	
37,50	416x267	4	469,60	
38,00	426x277	4	422,25	
38,50	426x277	4	535,26	
39,00	426x277	4	438,68	
39,50	426x277	4	535,26	
40,00	426x277	4	474,46	
41,00	436x287	4	606,66	
42,00	436x287	4	632,76	
43,00	447x298	4	673,42	
44,00	447x298	4	683,68	
45,00	447x298	4	720,58	
46,00	459x310	4	758,20	
47,00	459x310	4	797,97	
48,00	470x321	4	834,09	
49,00	470x321	4	861,35	
50,00	470x321	4	891,76	
55,00	505x310	5	1.166,05	

Altre dimensioni disponibili su richiesta

PUNTE ELICOIDALI CON CODOLO CONICO SERIE EXTRA LUNGA

DIN 1870 I/II

Ref. BC14



Ref. BC41



			BC14	BC41
MATERIALE			HSS	HSSCo 5%
TIPO DI AFFILATURA				
ANGOLO DI TAGLIO			118°	135°
ELICA			30° "N"	38° "S"
FINITURA			OX	BRILLANTE
APPLICAZIONE			70 Kg/mm²	120 Kg/mm²
Ø mm	L1 x L2	CM	€	€
8,00	265x165	1	73,70	
8,00	330x210	1	91,86	
8,50	265x165	1	80,94	
8,50	330x210	1	93,91	
9,00	275x175	1	83,32	
9,00	345x220	1	105,89	
9,50	275x175	1	89,16	
9,50	345x220	1	107,03	
10,00	285x185	1	91,59	
10,00	360x235	1	112,97	
10,50	285x185	1	90,35	
10,50	360x235	1	116,42	
11,00	300x195	1	101,55	
11,00	375x250	1	120,77	
11,50	300x195	1	111,20	
11,50	375x250	1	137,39	
12,00	310x205	1	113,80	232,94
12,00	395x260	1	141,81	
12,50	310x205	1	121,11	
12,50	395x260	1	158,27	
13,00	310x205	1	121,11	244,12
13,00	395x260	1	158,27	
13,50	325x220	1	132,59	
13,50	410x275	1	162,53	
14,00	325x220	1	131,21	233,01
14,00	410x275	1	162,53	326,45
14,50	340x220	2	145,25	254,90
14,50	425x275	2	177,02	357,94
15,00	340x220	2	145,25	244,86
15,00	425x275	2	177,02	347,66
15,50	355x230	2	162,82	284,77
15,50	445x295	2	195,25	383,70
16,00	355x230	2	162,82	270,45
16,00	445x295	2	195,25	373,95
16,50	355x230	2	162,61	284,77
16,50	445x295	2	210,97	388,09

Ø mm	L1 x L2	CM	BC14 €	BC41 €
17,00	355x230	2	175,48	278,14
17,00	445x295	2	210,97	388,78
17,50	370x245	2	193,09	312,84
17,50	465x310	2	232,33	423,06
18,00	370x245	2	193,09	304,44
18,00	465x310	2	232,33	401,21
18,50	370x245	2	196,70	351,78
18,50	465x310	2	251,08	480,03
19,00	370x245	2	198,84	350,96
19,00	465x310	2	251,08	448,10
19,50	385x260	2	221,21	392,49
19,50	490x325	2	271,70	502,61
20,00	385x260	2	215,73	385,61
20,00	490x325	2	271,70	502,34
20,50	385x260	2	253,17	513,25
20,50	490x325	2	304,03	590,98
21,00	385x260	2	243,05	471,39
21,00	490x325	2	304,03	585,62
21,50	405x270	2	269,99	555,18
21,50	515x345	2	326,27	693,50
22,00	405x270	2	259,19	503,43
22,00	515x345	2	326,27	676,04
22,50	405x270	2	307,67	590,98
22,50	515x345	2	368,31	733,98
23,00	405x270	2	295,36	576,36
23,00	515x345	2	368,31	693,50
23,50	425x270	3	338,05	722,26
23,50	535x345	3	409,92	880,94
24,00	440x290	3	338,05	659,53
24,00	555x365	3	409,92	807,03
24,50	440x290	3	350,33	779,25
24,50	555x365	3	431,99	926,22
25,00	440x290	3	350,33	695,02
25,00	555x365	3	431,99	828,40
25,50	440x290	3	362,10	829,20
25,50	555x365	3	477,21	1.079,83
26,00	440x290	3	362,10	751,46
26,00	555x365	3	477,21	971,65
26,50	440x290	3	370,81	842,00
26,50	555x365	3	492,37	1.159,35
27,00	460x305	3	370,81	781,04
27,00	580x385	3	492,37	1.028,49
27,50	460x305	3	395,56	916,05
27,50	580x385	3	532,63	1.227,64
28,00	460x305	3	395,56	827,41
28,00	580x385	3	532,63	1.117,67
28,50	460x305	3	409,92	971,93
28,50	580x385	3	587,72	1.278,55

Ø mm	L1 x L2	CM	BC14 €	BC41 €
29,00	460x305	3	409,92	863,74
29,00	580x385	3	587,72	1.172,45
29,50	460x305	3	424,38	988,85
29,50	580x385	3	592,58	1.364,56
30,00	460x305	3	424,38	903,66
30,00	580x385	3	592,58	1.218,85
31,00	480x320	4	475,71	1.143,67
31,00	610x410	4	631,77	
32,00	505x320	4	497,39	
32,00	635x410	4	662,88	
33,00	505x320	4	542,01	
33,00	635x410	4	733,82	
34,00	530x340	4	587,69	
34,00	665x430	4	781,27	
35,00	530x340	4	605,31	
35,00	665x430	4	827,47	
36,00	530x340	4	653,03	
36,00	665x430	4	868,89	
37,00	530x340	4	669,55	
37,00	665x430	4	965,43	
38,00	555x360	4	730,36	
38,00	695x460	4	1.022,32	
39,00	555x360	4	761,20	
39,00	695x460	4	1.071,10	
40,00	555x360	4	774,35	
40,00	695x460	4	1.021,67	
41,00	555x360	4	928,19	
41,00	695x460	4	1.161,24	
42,00	555x360	4	958,78	
42,00	695x460	4	1.239,88	
43,00	585x385	4	999,83	
43,00	735x490	4	1.265,11	
44,00	585x385	4	1.062,11	
44,00	735x490	4	1.309,56	
45,00	585x385	4	1.078,51	
45,00	735x490	4	1.370,57	
46,00	585x385	4	1.111,50	
46,00	735x490	4	1.431,82	
47,00	585x385	4	1.100,32	
47,00	735x490	4	1.502,13	
48,00	605x405	4	1.162,45	
48,00	765x510	4	1.589,50	
49,00	605x405	4	1.241,28	
49,00	765x510	4	1.650,01	
50,00	605x405	4	1.226,71	
50,00	765x510	4	1.693,12	

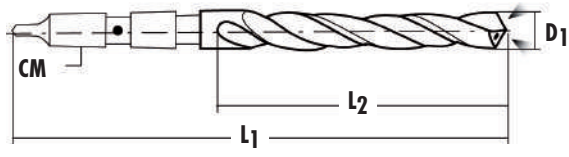
PUNTA CON CODOLO CONICO HSS CON REFRIGERAZIONE INTERNA

Ref. BC87

≤10xD | DIN 341 | HSS | 170° | 30° "N" | OX

AFFILATURA SPECIALE 170º
CON PUNTA PILOTA
CENTRATURA PRECISA







	D1 mm	L1 mm	L2 mm	CM	BC87 €
BC871000	10,0	268	116	3	438,98
BC871050	10,5	268	116	3	445,00
BC871100	11,0	278	125	3	445,00
BC871200	12,0	287	134	3	454,75
BC871300	13,0	287	134	3	454,75
BC871350	13,5	285	142	3	454,75
BC871400	14,0	285	142	3	454,75
BC871450	14,5	245	147	2	470,25*
BC871500	15,0	300	147	3	470,25
BC871550	15,5	251	153	2	486,05*
BC871600	16,0	306	153	3	486,05
BC871650	16,5	257	159	2	486,05*
BC871700	17,0	311	159	3	486,05
BC871750	17,5	318	165	3	517,02
BC871800	18,0	318	165	3	517,02
BC871900	19,0	324	171	3	532,91
BC872000	20,0	330	177	3	544,43
BC872100	21,0	343	184	3	571,90
BC872200	22,0	350	191	3	633,04

	D1 mm	L1 mm	L2 mm	CM	BC87 €
BC872300	23,0	357	198	3	626,98
BC872400	24,0	365	206	3	626,98
BC872500	25,0	365	206	3	639,96
BC872600	26,0	373	214	3	705,57
BC872700	27,0	375	222	4	736,85
BC872800	28,0	375	222	4	808,69
BC872900	29,0	375	230	4	862,46
BC873000	30,0	375	230	4	889,57
BC873100	31,0	375	239	4	1.097,36
BC873200	32,0	375	248	4	1.097,36
BC873300	33,0	375	248	4	1.282,23
BC873400	34,0	375	257	4	1.282,23
BC873500	35,0	375	257	4	1.442,01
BC873600	36,0	375	257	4	1.442,01
BC873700	37,0	375	257	4	1.630,13
BC873800	38,0	375	277	4	1.630,13
BC873900	39,0	375	277	4	1.818,41
BC874000	40,0	375	277	4	1.818,41

*Fino ad esaurimento scorte.

PUNTE IN SCATOLE DI METALLO E PLASTICA



Ref. PT6010

Plástica Blu

- Rigido, robusto e leggero
- Finestra trasparente
- Plastica rinforzata con gomma antiurto

P I riferimenti che iniziano con "P" vengono forniti in custodia plastica.



Ref. P6011

Ref. PP6010

Metallo "Classico"

- Scatola metallica alta resistenza

M



Ref. DC011



Ref. DC010

Ref. BC2



Ref. BC02



BC2	Ref.	Unità		CONTENUTO	€
DIN 338 HSS 118°	D0010	19	M	Ø 1-10 x 0,50 mm	65,47
	D0011	25	M	Ø 1-13 x 0,50 mm	136,22
	P6010	19	P	Ø 1-10 x 0,50 mm	65,47
	P6011	25	P	Ø 1-13 x 0,50 mm	136,22
Quarti	AD001	37	M	Ø 1-10 x 0,25 mm	178,38
	AD002	49	M	Ø 1-13 x 0,25 mm	320,14
Decimi	D0014	50	M	Ø 1-5,90 x 0,10 mm	125,09
	D0015	41	M	Ø 6-10 x 0,10 mm	325,11
	D0022	81	M	Ø 2-10 x 0,10 mm	557,56
Medi + Prefori	D0017	23	M	Ø 1-10 x 0,50 + Ø prefori*	124,81
	D0035	29	M	Ø 1-13 x 0,50 + Ø prefori*	206,28
Composizioni Aggiuntive	D0007	10	M	Ø 1-10 x 1 mm	53,28
	D0009	13	M	Ø 1,5-6,5x0,5 (+3,2 & 4,8) mm	25,30
	D0008	13	M	Ø 1-7 x 0,50 mm	26,32
	D0006	12	M	Ø 2-7 x 0,50 + 8 mm	48,31

BC02	Ref.	Unità		CONTENUTO	€
DIN 338 Plus 118°	DP010	19	M	Ø 1-10 x 0,50 mm	74,02
	DP011	25	M	Ø 1-13 x 0,50 mm	153,13
	PP6010	19	P	Ø 1-10 x 0,50 mm	74,02
	PP6011	25	P	Ø 1-13 x 0,50 mm	153,13
Quarti	ADP01	37	M	Ø 1-10 x 0,25 mm	213,65
	ADP02	49	M	Ø 1-13 x 0,25 mm	380,18
Decimi	Su richiesta	50	M	Ø 1-5,90 x 0,10 mm	
	Su richiesta	41	M	Ø 6-10 x 0,10 mm	
	Su richiesta	81	M	Ø 2-10 x 0,10 mm	
Medi + Prefori	DP017	23	M	Ø 1-10 x 0,50 + Ø prefori*	124,91
	DP035	29	M	Ø 1-13 x 0,50 + Ø prefori*	214,92
Composizioni Aggiuntive	DP007	10	M	Ø 1-10 x 1 mm	69,89
	DP009	13	M	Ø 1,5-6,5x0,5 (+3,2 & 4,8) mm	29,72
	DP008	13	M	Ø 1-7 x 0,50 mm	29,73
	DP006	12	M	Ø 2-7 x 0,50 + 8 mm	50,00

Ref. BC5



Ref. BC18



BC5	Ref.	Unità		CONTENUTO	€
DIN 338 HSSCo 5% 135°	DC010	19	M	Ø 1-10 x 0,50 mm	109,41
	DC011	25	M	Ø 1-13 x 0,50 mm	237,33
	PC6010	19	P	Ø 1-10 x 0,50 mm	109,41
	PC6011	25	P	Ø 1-13 x 0,50 mm	237,33
Quarti	ADC01	37	M	Ø 1-10 x 0,25 mm	257,95
	ADC02	49	M	Ø 1-13 x 0,25 mm	577,34
Decimi	DC014	50	M	Ø 1-5,90 x 0,10 mm	187,93
	DC015	41	M	Ø 6-10 x 0,10 mm	482,42
	DC022	81	M	Ø 2-10 x 0,10 mm	762,56
Medi + Prefori	DC017	23	M	Ø 1-10 x 0,50 + Ø prefori*	175,16
	DC035	29	M	Ø 1-13 x 0,50 + Ø prefori*	335,54
Composizioni Aggiuntive	DC007	10	M	Ø 1-10 x 1 mm	91,04
	DC009	13	M	Ø 1,5-6,5x0,5 (+3,2 & 4,8) mm	44,34
	DC008	13	M	Ø 1-7 x 0,50 mm	46,46
	DC006	12	M	Ø 2-7 x 0,50 + 8 mm	69,64

BC18	Ref.	Unità		CONTENUTO	€
HSS TiN 118°	DT010	19	M	Ø 1-10 x 0,50 mm	91,96
	DT011	25	M	Ø 1-13 x 0,50 mm	193,57
	PT6010	19	P	Ø 1-10 x 0,50 mm	91,96
	PT6011	25	P	Ø 1-13 x 0,50 mm	193,57
Quarti	ADT01	37	M	Ø 1-10 x 0,25 mm	213,00
	ADT02	49	M	Ø 1-13 x 0,25 mm	427,18
Decimi	Su richiesta	50	M	Ø 1-5,90 x 0,10 mm	
	Su richiesta	41	M	Ø 6-10 x 0,10 mm	
	Su richiesta	81	M	Ø 2-10 x 0,10 mm	
Medi + Prefori		23	M	Ø 1-10 x 0,50 + Ø prefori*	
		29	M	Ø 1-13 x 0,50 + Ø prefori*	
Composizioni Aggiuntive	DT007	10	M	Ø 1-10 x 1 mm	72,56
	DT009	13	M	Ø 1,5-6,5x0,5 (+3,2 & 4,8) mm	36,57
	DT008	13	M	Ø 1-7 x 0,50 mm	39,69
	DT006	12	M	Ø 2-7 x 0,50 + 8 mm	59,39

* Prefori: da M3 a M12 (Ø3,30 - Ø4,20 - Ø6,80 - Ø10,20)

PUNTE IN SCATOLE DI METALLO E PLASTICA



Metallo "Classico"

- Scatola metallica alta resistenza

M

Plástica Blu

- Rigido, robusto e leggero
- Finestra trasparente
- Plastica rinforzata con gomma antiurto

P I riferimenti che iniziano con "P" vengono forniti in custodia plastica.



Ref. PTTX011

Ref. BC95



BC95		Ref.	Unità		CONTENUTO	€
HSSCo 5%		DC9510	19	M	Ø 1-10 x 0,50 mm	122,14
		DC9511	25	M	Ø 1-13 x 0,50 mm	276,08
130°		PC9510	19	P	Ø 1-10 x 0,50 mm	122,14
		PC9511	25	P	Ø 1-13 x 0,50 mm	276,08

Ref. BC58



BC58		Ref.	Unità		CONTENUTO	€
DIN 338	HSSCo 8%	DC810	19	M	Ø 1-10 x 0,50 mm	158,30
135°		DC811	25	M	Ø 1-13 x 0,50 mm	373,48
Quarti		ADC81	37	M	Ø 1-10 x 0,25 mm	364,82
		ADC82	49	M	Ø 1-13 x 0,25 mm	856,03
Medi + Prefori		DC817	23	M	Ø 1-10 x 0,50 + Ø prefori*	234,92
		DC835	29	M	Ø 1-10 x 0,50 + Ø prefori*	454,71
Composizioni Aggiuntive		DC806	12	M	Ø 2-7 x 0,50 + 8 mm	91,75
		DC807	10	M	Ø 1-10 x 1 mm	115,30

Ref. BC82



BC82		Uds.		CONTENIDO	€
DIN 338	HSS	19	M	Ø 1-10 x 0,50 mm	65,47
118°		25	M	Ø 1-13 x 0,50 mm	136,22

Ref. BTX



BTX		Ref.	Unità		CONTENUTO	€
Ø≥3	HSSCo 5%	PTX010	19	P	Ø 1-10 x 0,50 mm	123,38
135°		PTX011	25	P	Ø 1-13 x 0,50 mm	294,77

Ref. TTX



TTX		Ref.	Unità		CONTENUTO	€
Ø≥3	HSS	PTTX010	19	P	Ø 1-10 x 0,50 mm	111,05
135°	TiAlSiN	PTTX011	25	P	Ø 1-13 x 0,50 mm	265,28

Ref. TK02



TK02		Ref.	Unità		CONTENUTO	€
DIN 338	HSS	TK02010	19	P	Ø 1-10 x 0,50 mm	198,38
Ø≥4	Ø≥2,5mm	TK02011	25	P	Ø 1-13 x 0,50 mm	353,91

Ref. TK05



TK05		Ref.	Unità		CONTENUTO	€
DIN 338	HSSCo 5%	TK05010	19	P	Ø 1-10 x 0,50 mm	247,97
Ø≥5	Ø≥3mm	TK05011	25	P	Ø 1-13 x 0,50 mm	442,39

PUNTE IN SCATOLE METALLICHE (Composizioni speciali)

PUNTE HSS PER ALLUMINIO

Ref. BC16



BC16		Ref.	Unità		CONTENUTO	€
DIN 338	HSS	D16010	19	M	Ø 1-10 x 0,50 mm	101,51
135°		D16011	25	M	Ø 1-13 x 0,50 mm	222,69

PUNTE HSSCo CON GEOMETRIA TIPO "S"

Ref. BC55



BC55		Ref.	Unità		CONTENUTO	€
DIN 338	HSSCo 5%	D55010	18	M	Ø 1,50-10 x 0,50 mm	198,41
135°		D55011	24	M	Ø 1,50-13 x 0,50 mm	402,09

PUNTE CON PUNTA IN METALLO DURO PER ACCIAI TRATTATI, GHISE, ECC.

Ref. BC7



BC7		Ref.	Unità		CONTENUTO	€
DIN 338	PMD	DPMD010	17	M	Ø 2-10 x 0,50 mm	379,47
118°		DPMD011	23	M	Ø 2-13 x 0,50 mm	665,42

PUNTE IN METALLO DURO INTEGRALE PER MATERIALI MOLTO DURI

Ref. BC42



BC42		Ref.	Unità		CONTENUTO	€
DIN 338	MD	D42010	17	M	Ø 2-10 x 0,50 mm	1.067,29
135°		D42011	23	M	Ø 2-13 x 0,50 mm	2.392,00

PUNTE SPECIALI PER ACCIAIO INOX

Ref. BC50



BC50		Ref.	Unità		CONTENUTO	€
DIN 338	HSSCo 5%	D50010	19	M	Ø 1-10 x 0,50 mm	315,51
118°		D50011	25	M	Ø 1-13 x 0,50 mm	476,81

PUNTE CON TAGLIO A SINISTRA

Ref. BC15



BC15		Ref.	Unità		CONTENUTO	€
DIN 338	HSS	D0010I	19	M	Ø 1-10 x 0,50 mm	162,17
118°		D0011I	25	M	Ø 1-13 x 0,50 mm	325,77
		DR9312I	10	P	Ø 1-10 x 1 mm	79,33

SCATOLE VUOTE

Ref.	Unità		CONTENUTO	€	
D0010V	19	M	Ø 1-10 x 0,50 mm	20,30	
D0011V	25	M	Ø 1-13 x 0,50 mm	28,30	
AD001V	37	M	Ø 1-10 x 0,25 mm	74,38	
AD002V	49	M	Ø 1-13 x 0,25 mm	86,39	
D0014V	50	M	Ø 1-5,9 x 0,10 mm	65,87	
D0015V	41	M	Ø 6-10 x 0,10 mm	131,62	
D0022V	81	M	Ø 2-10 x 0,10 mm	252,45	
D0006V	12	M	Ø 2-7 x 0,50 + 8 mm	27,53	
D0007V	10	M	Ø 1-10 x 1 mm	47,26	
D0017V	23	M	Ø 1-10 x 0,50 mm + prefori*	54,80	
D0035V	29	M	Ø 1-13 x 0,50 mm + prefori*	76,30	
DE10V	19	M	Ø 1-10 x 0,50 mm	46,94	DIN 1897
DE11V	25	M	Ø 1-13 x 0,50 mm	57,65	





* Prefori: da M3 a M12 (Ø3,30 - Ø4,20 - Ø6,80 - Ø10,20)

PUNTE IN SCATOLE DI METALLO

PUNTE SERIE LUNGA DIN 340

Ref. BC4



BC4		Ref.	Unità		CONTENUTO	€
DIN 340	HSS	D0004	19	M	Ø 1-10 x 0,50 mm	104,92
118°						

Ref. BC47



BC47		Ref.	Unità		CONTENUTO	€
DIN 340	HSSCo 5%	DC004	x17	M	Ø 2-10 x 0,50 mm	225,24
135°						

Ref. BC40



BC40		Ref.	Unità		CONTENUTO	€
HSS	TiN	DT004	19	M	Ø 1-10 x 0,50 mm	163,06
118°						



Ref. DC004



Ref. DT004

PUNTE SERIE EXTRACORTA DIN 1897

Ref. BC3



BC3		Ref.	Unità		CONTENUTO	€
DIN 1897	HSS	D3010	19	M	Ø 1-10 x 0,50 mm	74,48
135°		D3011	25	M	Ø 1-13 x 0,50 mm	119,66

Ref. BC31



BC31		Ref.	Unità		CONTENUTO	€
DIN 1897	HSSCo 5%	D3110	19	M	Ø 1-10 x 0,50 mm	107,56
135°		D3111	25	M	Ø 1-13 x 0,50 mm	225,14

Ref. BC33



BC33		Ref.	Unità		CONTENUTO	€
DIN 1897	HSSCo 5%	D3310	19	M	Ø 1-10 x 0,50 mm	161,34
135°		D3311	25	M	Ø 1-13 x 0,50 mm	270,07

Ref. BC77



BC77		Ref.	Unità		CONTENUTO	€
DIN 1897	PMD	D7710	17	M	Ø 2-10 x 0,50 mm	402,60
118°		D7711	23	M	Ø 2-13 x 0,50 mm	634,84

Ref. BC43



BC43		Ref.	Unità		CONTENUTO	€
DIN 1897	MD	D4310	17	M	Ø 2-10 x 0,50 mm	691,77
135°		D4311	23	M	Ø 2-13 x 0,50 mm	1.457,10



Ref. D7710



Ref. D3110

PUNTE IN SCATOLE DI PLASTICA



Ref. DP9314



Ref. DP9312



Ref. DP9313



Ref. DP9311

Ref. BC2



BC2		Ref.	Unità	CONTENUTO	€
DIN 338	HSS	DR9314	6	Ø 2 - 3 - 4 - 5 - 6 - 8 mm	19,04
		DR9312	10	Ø 1-10 x 1 mm	40,56
118°		DR9313	13	Ø 2-8 x 0,50 mm	40,25
		DR9311	19	Ø 1-10 x 0,50 mm	70,87

Ref. BC02



BC02		Ref.	Unità	CONTENUTO	€
DIN 338	Plus	DP9314	6	Ø 2 - 3 - 4 - 5 - 6 - 8 mm	20,09
		DP9312	10	Ø 1-10 x 1 mm	43,89
118°		DP9313	13	Ø 2-8 x 0,50 mm	42,92
		DP9311	19	Ø 1-10 x 0,50 mm	77,39

Ref. BC5



BC5		Ref.	Unità	CONTENUTO	€
DIN 338	HSSCo 5%	DC9314	6	Ø 2 - 3 - 4 - 5 - 6 - 8 mm	30,27
		DC9312	10	Ø 1-10 x 1 mm	64,95
135°		DC9313	13	Ø 2-8 x 0,50 mm	65,43
		DC9311	19	Ø 1-10 x 0,50 mm	116,09

Ref. BC18



BC18		Ref.	Unità	CONTENUTO	€
HSS	TiN	DT9314	6	Ø 2 - 3 - 4 - 5 - 6 - 8 mm	19,79
		DT9312	10	Ø 1-10 x 1 mm	42,03
118°		DT9313	13	Ø 2-8 x 0,50 mm	40,61
		DT9311	19	Ø 1-10 x 0,50 mm	73,34

Ref. BC82



BC82		Ref.	Unità	CONTENUTO	€
DIN 338	HSS	D829314	6	Ø 2 - 3 - 4 - 5 - 6 - 8 mm	18,04
		D829312	10	Ø 1-10 x 1 mm	38,39
118°		D829313	13	Ø 2-8 x 0,50 mm	38,10
		D829311	19	Ø 1-10 x 0,50 mm	67,08

Ref. BC58



BC58		Ref.	Unità	CONTENUTO	€
DIN 338	HSSCo 8%	D89314	6	Ø 2 - 3 - 4 - 5 - 6 - 8 mm	38,64
		D89312	10	Ø 1-10 x 1 mm	82,64
135°		D89313	13	Ø 2-8 x 0,50 mm	84,70
		D89311	19	Ø 1-10 x 0,50 mm	148,59

				Ref.	Unità	CONTENUTO	€
BC95	HSSCo 5%	OX DORATO	130°	DC959314	6	Ø 2-3-4-5-6-8 mm	31,26
BTX	Ø≥3	HSSCo 5%	135° DORATO	PTX9314	6	Ø 2-3-4-5-6-8 mm	30,07
TTX	Ø≥3	HSS	135° TiAlSiN	PTTX9314	6	Ø 2-3-4-5-6-8 mm	27,97
TK02	DIN 338	HSS	Ø≥4 Ø≥2,5mm	PTK029314	6	Ø 2-3-4-5-6-8 mm	48,83
TK05	DIN 338	HSSCo 5%	Ø≥5 Ø≥3mm	PTK059314	6	Ø 2-3-4-5-6-8 mm	61,04

Ref. BC95



Ref. BTX



Ref. TTX



Ref. TK02



Ref. TK05



PUNTE IN SCATOLE DI PLASTICA



BARATTOLI CLASSIFICATORI DI PLASTICA DA 19 PEZZI

				Ref.	Unità	CONTENUTO	€
BC2	DIN 338	HSS	118°	DR9380	19	Ø 1-10 x 0,50 mm	66,46
BC02	DIN 338	Plus	118°	DP9380	19	Ø 1-10 x 0,50 mm	74,42
BC5	DIN 338	HSSCo 5%	135°	DC9380	19	Ø 1-10 x 0,50 mm	110,81
BC18	TiN	HSS	118°	DT9380	19	Ø 1-10 x 0,50 mm	93,77
BC58	DIN 338	HSSCo 8%	135°	D89380	19	Ø 1-10 x 0,50 mm	150,70

Ref. BC2



Ref. BC02



Ref. BC5



Ref. BC18



Ref. BC58



SET DI MICROPUNTE RETTIFICATE IN SCATOLE DI PLASTICA, AEROMODELLISMO E INTARSIO



Ref. DC9120



Ref. DR9102



			Ref.	Unità	CONTENUTO	€
DR9120	DIN 338	HSS	DR9120	10	Ø 1-1,90 x 0,10 mm	25,55
DC9120	DIN 338	HSSCo 5%	DC9120	10	Ø 1-1,90 x 0,10 mm	36,40
DR9102	DIN 338	HSS	DR9102	15	Ø 0,30 - 0,35 - 0,40 - 0,45 - 0,50 - 0,55 - 0,60 0,65 - 0,70 - 0,75 - 0,80 - 0,85 - 0,90 - 0,95 -1	49,30

ASTUCCI DI PLASTICA MISTI: HSS, WIDIA E LEGNO

SERIE STANDARD

HSS (Ref. BC2)
PMD (Ref. BW1)
CV (Ref. BM)







REFERENCIA	EC9330	EC9331	EC9332
Nº PUNTE	8	9	9
QUALITÀ			
CONTENUTO	Ø 4 - 5 - 6 - 8 mmx 2	Ø 4 - 6 - 8 mmx 3	Ø 5 - 6 - 8 mmx 3
P.V.P. €	22,04	25,12	25,61

*Fino ad esaurimento scorte.

SERIE PROFESSIONALE

HSSCo 5% (Ref. BC5)
PMD (Ref. BW6)
HSS (Ref. BMPR)









REFERENCIA	M9330	M9331	M9332	M9382
Nº PUNTE	8	9	9	18
QUALITÀ				
CONTENUTO	Ø 4 - 5 - 6 - 8 mmx 2	Ø 4 - 6 - 8 mmx 3	Ø 5 - 6 - 8 mmx 3	Ø 3 - 4 - 5 - 6 - 8 - 10 mmx 3
P.V.P. €	36,72	37,04	38,29	73,79*

*Fino ad esaurimento scorte.

SERIE EXTRA PROFESSIONALE

HSSCo 5% (Ref. BC5)
PMD (Ref. BW15)
HSS (Ref. BMPR)









REFERENCIA	P9330	P9331	P9332	P9382
Nº PUNTE	8	9	9	18
QUALITÀ				
CONTENUTO	Ø 4 - 5 - 6 - 8 mmx 2	Ø 4 - 6 - 8 mmx 3	Ø 5 - 6 - 8 mmx 3	Ø 3 - 4 - 5 - 6 - 8 - 10 mmx 3
P.V.P. €	60,46*	56,36*	56,55*	114,71*

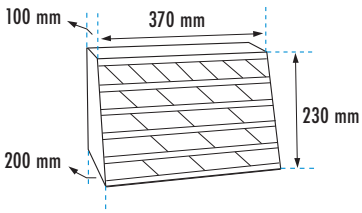
*Fino ad esaurimento scorte.

ARMADI ESPOSITORI PER LA PRESENTAZIONE DI PUNTE CILINDRICHI DIN 338











Ref. BC2

DIN 338 | HSS | 118° | 30° "N" | OX | 70 Kg/mm²



HSS

CONTENUTO 400 PUNTE

Punte BC2

1,00	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00
10	10	20	20	50	30	40	20	40	10	30	10	10

7,50	8,00	8,50	9,00	9,50	10,00	10,50	11,00	11,50	12,00	12,50	13,00
10	20	10	10	10	10	5	5	5	5	5	5

EXPBROCASBC2

1.295,80 €





Ref. BC02

DIN 338 | HSS-G Plus | 118° | 30° "N" | OX DORATO | 70 Kg/mm²

HSS-G Plus



CONTENUTO 316 PUNTE

Punte BC02

1,00	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00
10	10	20	10	20	10	30	10	30	10	30	10	10

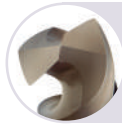
7,50	8,00	8,50	9,00	9,50	10,00	10,50	11,00	11,50	12,00	12,50	13,00
10	20	10	10	10	10	6	6	6	6	6	6

EXPBROCASBC02

1.390,74 €

ARMADI ESPOSITORI PER LA PRESENTAZIONE DI PUNTE CILINDRICHI DIN 338





Ref. BC5

DIN 338 | HSSCo 5% | 135° | 30° "N" | DORATO | 120 Kg/mm²



HSSCo 5%



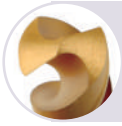
CONTENUTO 220 PUNTE

Punte BC5

1,00	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00
10	10	10	10	10	10	10	10	10	10	10	10	10
7,50	8,00	8,50	9,00	9,50	10,00	10,50	11,00	11,50	12,00	12,50	13,00	
10	10	10	10	10	10	5	5	5	5	5	5	

EXPBROCASBC5

1.801,30 €



Ref. BC18

DIN 338 | HSS | 118° | 30° "N" | TiN | PRODUZIONE



HSS | TiN



CONTENUTO 200 PUNTE

Punte BC18

1,00	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00
10	10	10	10	10	10	10	10	10	10	10	10	10
7,50	8,00	8,50	9,00	9,50	10,00	10,50	11,00	11,50	12,00	12,50	13,00	
10	10	5	5	5	5	5	5	5	5	5	5	



EXPBROCASBC18

1.230,60 €





Ref. BC95

DIN 338 | HSSCo 5% | 130° | Ø ≥ 3 | OX DORATO | INOX



HSSCo 5%



CONTENUTO 176 PUNTE

Punte BC95

1,00	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00
10	10	10	10	10	10	10	10	10	10	10	10	10
7,50	8,00	8,50	9,00	9,50	10,00	10,50	11,00	11,50	12,00	12,50	13,00	
10	10	5	5	5	5	1	1	1	1	1	1	

EXPBROCASBC95

1.128,09 €

ARMADI ESPOSITORI PER LA PRESENTAZIONE DI PUNTE CILINDRICHI DIN 338



Ref. BTX

DIN 338 | HSSCo 5% | Ø ≥3 | 135° | 38° "S" | DORATO | 120 Kg/mm²



HSSCo 5%



CONTENUTO 176 PUNTE

Punte BC5 (Ø1-2,5mm) Punte (BTX Ø3-13mm)

1,00	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00
10	10	10	10	10	10	10	10	10	10	10	10	10
7,50	8,00	8,50	9,00	9,50	10,00	10,50	11,00	11,50	12,00	12,50	13,00	
10	10	5	5	5	5	1	1	1	1	1	1	

EXPBROCASBTX	EXPBROCASBTX
96,20 €	1.031,06 €



Ref. TK02

DIN 338 | HSS | Ø≥2,5mm | Ø≥4

Al | Cu-Ni-Zn | PVC | STEP CUT

HSS



CONTENUTO 176 PUNTE

Punte TK02

1,00	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00
10	10	10	10	10	10	10	10	10	10	10	10	10
7,50	8,00	8,50	9,00	9,50	10,00	10,50	11,00	11,50	12,00	12,50	13,00	
10	10	5	5	5	5	1	1	1	1	1	1	

EXPBROCASTK02
1.724,78 €



Ref. TK05

DIN 338 | HSSCo 5% | Ø≥3mm | Ø≥5

INOX | GHISA | Cu-Ni-Zn | PVC | STEP CUT

HSSCo 5%



CONTENUTO 176 PUNTE

Punte TK05

1,00	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00
10	10	10	10	10	10	10	10	10	10	10	10	10
7,50	8,00	8,50	9,00	9,50	10,00	10,50	11,00	11,50	12,00	12,50	13,00	
10	10	5	5	5	5	1	1	1	1	1	1	



EXPBROCASTK05
2.181,38 €

VALIGIE METALLICHE DI PUNTE RETTIFICATE



DIN 338

125 PUNTE Ø 1-10 mm x 0,50

Ø	1	1,50	2	2,50	3	3,50	4	4,50
Q.tà	10	5	10	5	10	5	10	5
	5	5,50	6	6,50	7	7,50	8	8,50
	10	5	10	5	5	5	5	5
	9	9,50	10	= 125 Punte				
	5	5	5					






REFERENZA	BC2880	BC02880	BC5880	BC18880	M0880V
Nº PUNTE	125	125	125	125	250
QUALITÀ	HSS	Plus	HSSCo 5%	HSS TiN	
CONTENUTO	Ø 1-10 x 0,50 S/DETTAGLIATO	Ø 1-10 x 0,50 S/DETTAGLIATO	Ø 1-10 x 0,50 S/DETTAGLIATO	Ø 1-10 x 0,50 S/DETTAGLIATO	ASTUCCIO VUOTO
P.V.P. €	417,31	467,19	690,77	563,93	161,79



DIN 338

155 Punte Ø 1-13 mm x 0,50

Ø	1	1,50	2	2,50	3	3,50	4	4,50	5
Q.tà	10	5	10	5	10	5	10	5	10
	5,50	6	6,50	7	7,50	8	8,50	9	9,50
	5	10	5	5	5	5	5	5	5
	10	10,50	11	11,50	12	12,50	13	=155 Punte	
	5	5	5	5	5	5	5		






REFERENZA	BC2881	BC02881	BC5881	BC18881	M0881V
Nº PUNTE	155	155	155	155	290
QUALITÀ	HSS	Plus	HSSCo 5%	HSS TiN	
CONTENUTO	Ø 1-13 x 0,50 S/DETTAGLIATO	Ø 1-13 x 0,50 S/DETTAGLIATO	Ø 1-13 x 0,50 S/DETTAGLIATO	Ø 1-13 x 0,50 S/DETTAGLIATO	ASTUCCIO VUOTO
P.V.P. €	838,20	931,03	1.487,45	1.071,92	374,64

VALIGETTE METALLICHE DI PUNTE CONICHE DIN 345

DIN 345

HSS

(Punte Ref. BC11)





REFERENZA	MBC11-1	MBC11-2
Nº PUNTE	10	10
QUALITÀ	HSS	HSS
CONTENUTO	Ø 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23	Ø 14 - 16 - 18 - 20 - 22 - 24 - 25 - 26 - 28 - 30
P.V.P. €	701,15	976,02

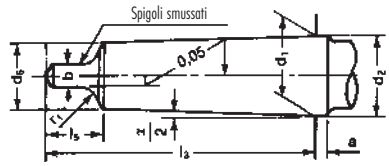
TABELLA DI CONSULTAZIONE DEI PARAMETRI DI TAGLIO E AVANZAMENTO PER PUNTE

			DIAMETRO Ø (mm)											
			2	3	5	7	10	12	15	18	20	22	25	30
ACCIAIO DOLCE 70 kg/mm² **BC2**	V/C 25 m/min	RPM	3979	2653	1592	1137	796	663	531	442	398	362	318	265
		mm / giro	0,04	0,06	0,08	0,15	0,20	0,26	0,30	0,33	0,34	0,35	0,35	0,39
		S (mm / min)	159	159	127	171	159	172	159	146	135	127	111	103
ACCIAIO TRATTATO 120 kg/mm² **BC5**	V/C 13 m/min	RPM	2069	1379	828	591	414	345	276	230	207	188	166	138
		mm / giro	0,03	0,045	0,06	0,10	0,15	0,18	0,20	0,22	0,23	0,25	0,25	0,28
		S (mm / min)	62	62	50	59	62	60	55	51	48	47	41	39
INOX **BC50**	V/C 11 m/min	RPM	1751	1167	700	500	350	292	233	195	175	159	140	117
		mm / giro	0,02	0,05	0,08	0,14	0,19	0,23	0,25	0,27	0,28	0,30	0,31	0,33
		S (mm / min)	35	58	56	70	67	67	58	53	49	48	43	39
ALLUMINIO **BC16**	V/C 50 m/min	RPM	7958	5305	3183	2274	1592	1326	1061	884	796	723	637	531
		mm / giro	0,03	0,06	0,08	0,16	0,20	0,23	0,25	0,28	0,29	0,30	0,30	0,36
		S (mm / min)	239	318	255	364	318	305	265	248	231	217	191	191
TITANIO **BC42**	V/C 18 m/min	RPM	5570	3714	2228	1592	1114	928	743	619	557	506	446	371
		mm / giro	0,02	0,03	0,03	0,05	0,08	0,08	0,12	0,15				
		S (mm / min)	111	111	67	80	84	74	89	93				
GHISA **BC7**	V/C 25 m/min	RPM	3979	2653	1592	1137	796	663	531	442	398	362	318	265
		mm / giro	0,05	0,08	0,10	0,20	0,27	0,31	0,37	0,41	0,42	0,42	0,42	0,45
		S (mm / min)	199	199	159	227	215	206	196	181	167	152	134	119
OTTONE **BC66**	V/C 50 m/min	RPM	7958	5305	3183	2274	1592	1326	1061	884	796	723	637	531
		mm / giro	0,04	0,07	0,08	0,17	0,21	0,25	0,28	0,28	0,30	0,30	0,33	0,40
		S (mm / min)	318	345	239	387	334	332	297	248	239	217	210	212
PLASTICA FIBRA DI CARBONIO **BC7**	V/C 12 m/min	RPM	1911	1274	764	546	382	318	255	212	191	174	153	127
		mm / giro	0,02	0,03	0,03	0,05	0,08	0,08	0,12	0,15				
		S (mm / min)	38	38	23	27	29	25	31	32				
LEGHE Ni **BC42**	V/C 30 m/min	RPM	4775	3183	1910	1364	955	796	637	531	477	434	382	318
		mm / giro	0,015	0,02	0,02	0,03	0,04	0,06	0,07	0,08	0,11	0,12	0,15	
		S (mm / min)	72	64	42	34	38	48	45	42	53	52	57	
CIRCUITI STAMPATI **BC79**	25	**RPM**	3979	-	-	-	-	-	-	-	-	-	-	-

OSSERVAZIONI:

- Conosciuti il diametro della punta e il materiale da lavorare, la velocità e l'avanzamento si identificano velocemente.
  esempio;
  Materiale: Alluminio — RPM=2274
  Ø Della punta: 7 mm → S=364 mm/min
- Prima di realizzare i primi fori è necessario regolare sia la velocità sia l'avanzamento.

INFORMAZIONI TECNICHE SULLE DIMENSIONI DEL CONO MORSE DIN 228D



CONO MORSE	Assottigliamento	∂/2	a	b h13	d_1	d_2 Ø maggiore	d_6 Ø minore	d_7 Dimen. Max.	l_3 -1	l_4 Dimen. Max.	l_5 Dimen. Max.	r_1	r_2
0	1:19,212=0,05205	1º29' 27"	3,0	3,9	9,045	9,2	6,1	6,0	56,5	59,5	10,5	4	1,0
1	1:20,047=0,04988	1º25' 43"	3,5	5,2	12,065	12,2	9,0	8,7	62,0	65,5	13,5	5	1,2
2	1:20,020=0,04995	1º25' 50"	5,0	6,3	17,780	18,0	14,0	13,5	75,0	80,0	16,0	6	1,6
3	1:19,922=0,05020	1º26' 16"	5,0	7,0	23,825	24,1	19,1	18,5	94,0	99,0	20,0	7	2,0
4	1:19,254=0,05194	1º29' 15"	6,5	11,9	31,267	31,6	25,2	24,5	117,5	124,0	24,0	8	2,5
5	1:19,002=0,05263	1º30' 26"	6,5	15,9	44,399	44,7	36,5	35,7	149,5	156,0	29,0	10	3,0
6	1:19,180=0,05214	1º29' 36"	8,0	19,0	63,348	63,8	52,4	51,0	210,0	218,0	40,0	10	4,0

BLUE-MASTER®
by celesa



FLUIDI DA TAGLIO

GARANTIA REACH BIODEGRADABILE

IL N°1 DEI FLUIDI DA TAGLIO DI INGEGNERIA

OLIO UNIVERSALE.
APPLICAZIONE MECCANICA PER TUTTI I TIPI DI MATERIALI
EXTRA

DISPONIBILE SCHEDA TECNICA E DI SICUREZZA E IGIENE SECONDO IL REGOLAMENTO REACH

USO GENERALE



Ref. AC00250



Ref. AC00300AERO



Ref. AC00500



Ref. AC01000

		UNITÀ DI IMBALLAGGIO	EXTRA €
AC00250	0,250 l.	1 Barattolo	**20,59**
AC00300AERO	0,300 l.	1 Spray	**35,12**
AC00500	0,500 l.	1 Barattolo	**35,75**
AC01000	1,000 l.	1 Barattolo	**55,43**
AC05000	5,000 l.	1 Tanica	**216,52**
AC10000	10,000 l.	1 Tanica	**385,94**
AC25000	25,000 l.	1 Tanica	**800,61**

CUT MAGIC EXTRA, è la soluzione perfetta per lubrificare la lavorazione meccanica di tutti i tipi di materiali. Le sue caratteristiche e la sua composizione sono progettate per proporzionare la massima durabilità agli utensili nelle lavorazioni meccaniche.





EXP-AC00250
8 U. x 250ml.
164,71 €

200 x 180 x 240mm



EXP-AC00300AERO
8 U.
280,92 €

200 x 205 x 300mm



Ref. AC05000

Ref. AC10000

OLIO ULTRA VISCOSO, SPECIALMENTE PROGETTATO
PER INOX, INCONEL, TITANIO, DUPLEX E ACCIAI TEMPRATI FINO A 44 HRC.
XTHICK

DISPONIBILE SCHEDA TECNICA E DI SICUREZZA E IGIENE SECONDO IL REGOLAMENTO REACH

		UNITÀ DI IMBALLAGGIO	XTHICK €
ACXT00250	0,250 l.	1 Barattolo	**23,62**
ACXT00500	0,500 l.	1 Barattolo	**41,18**
ACXT01000	1,000 l.	1 Barattolo	**71,49**
ACXT05000	5,000 l.	1 Tanica	**258,79**



EXP-ACXT00250
8 U. x 250ml.
188,97 €

200 x 180 x 240mm





Ref. ACXT00250



Ref. ACXT00500



Ref. ACXT01000



Ref. ACXT05000

* Tutta la gamma di fluidi da taglio è biodegradabile, secondo il regolamento (CE) n. 1907/2006. REACH.

IL N°1 DEI FLUIDI DA TAGLIO DI INGEGNERIA

ESCLUSIVO PER ALLUMINIO, MAGNESIO E LE RISPETTIVE GHISE:
EVAPORA SPONTANEAMENTE SENZA LASCIARE TRACCIA SUL PEZZO.

ALLUMINIO

DISPONIBILE SCHEDA TECNICA E DI SICUREZZA E IGIENE SECONDO IL REGOLAMENTO REACH

Al



Ref. ACAL00250



Ref. ACAL00500



Ref. ACAL01000



			ALU
	ℓ.	UNITÀ DI IMBALLAGGIO	€
ACAL00250	0,250 l.	1 Barattolo	**23,18**
ACAL00500	0,500 l.	1 Barattolo	**40,34**
ACAL01000	1,000 l.	1 Barattolo	**66,99**

OLIO UNIVERSALE IN SCHIUMA. MASSIMA ADERENZA AGLI UTENSILI!
PER TUTTI I TIPI DI MATERIALI

EXTRA FOAMY

DISPONIBILE SCHEDA TECNICA E DI SICUREZZA E IGIENE SECONDO IL REGOLAMENTO REACH



Ref. ACF00400



			FOAMY
		UNITÀ DI IMBALLAGGIO	€
ACF00400	0,400 l.	1 Spray	**53,47**

OLIO MINERALE SOLUBILE PER LA REFRIGERAZIONE OTTIMALE
IN TUTTI I TIPI DI PROCESSI MECCANICI
DISPONIBILE SCHEDA TECNICA E DI SICUREZZA E IGIENE
SECONDO IL REGOLAMENTO REACH

Mescolato con acqua forma un` emulsione ad alta stabilità e buona protezione anticorrosiva. La sua eccezionale resistenza ai microorganismi fa sì che richieda poca manutenzione e offre grande durabilità.

CONCENTRAZIONE: Processi meccanici e rettificazione: 4-7%



			AST5000
	ℓ.	UNITÀ DI IMBALLAGGIO	€
AST5000	5 l.	1 Tanica	**105,44**

* Tutta la gamma di fluidi da taglio è biodegradabile, secondo il regolamento (CE) n. 1907/2006. REACH.

IL Nº1 DEI FLUIDI DA TAGLIO DI INGEGNERIA

IN PASTA, APPLICABILE A QUALSIASI UTENSILE CON LA MASSIMA ADERENZA!
PER TUTTI I TIPI DI MATERIALI.

PASTY

DISPONIBILE SCHEDA TECNICA E DI SICUREZZA E IGIENE SECONDO IL REGOLAMENTO REACH





Ref. ACPU00250



Ref. ACPU00750

PASTY

		UNITÀ DI IMBALLAGGIO	€
ACPU00250	0,250 l.	1 Latta	**28,92**
ACPU00750	0,750 l.	1 Latta	**43,76**

APPROFITTA DELLA BARRA LUBRIFICANTE PER IL TAGLIO CON LAMA.
PER TUTTI I TIPI DI MATERIALI.

TWISTY

DISPONIBILE SCHEDA TECNICA E DI SICUREZZA E IGIENE SECONDO IL REGOLAMENTO REACH







Ref. ACPS00300

TWISTY

		UNITÀ DI IMBALLAGGIO	€
ACPS00300	0,300 l.	1 Barra	**45,06**

SPRAY ANTI-PROIEZIONI PER LA PROTEZIONE DELL`ATTREZZATURA INDUSTRIALE

Progettato per proteggere dalle proiezioni l'attrezzatura utilizzata durante il processo di saldatura. Indicato sia per saldatura manuale sia automatica. Non contiene silicone.

EPW0400

DISPONIBILE SCHEDA TECNICA E DI SICUREZZA E IGIENE SECONDO IL REGOLAMENTO REACH





Ref. EPW0400

SPATTER TOOL MAGIC

		UNITÀ DI IMBALLAGGIO	€
EPW0400	0,400 l.	1 Spray	**30,90**

SPRAY ANTI-PROIEZIONI

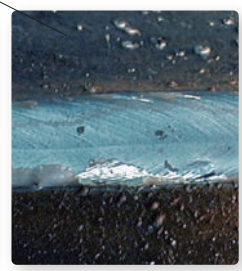
Progettato per proteggere dalle proiezioni e dagli schizzi i pezzi in lavorazione durante il processo di saldatura. Indicato sia per saldatura manuale sia automatica. Non contiene silicone.

PW0400

DISPONIBILE SCHEDA TECNICA E DI SICUREZZA E IGIENE SECONDO IL REGOLAMENTO REACH

* Proiezioni di saldatura







Ref. PW0400

SPATTER MAGIC

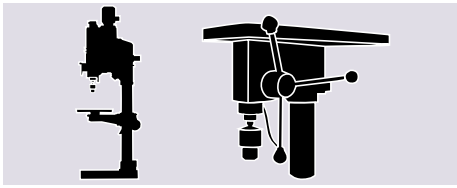
		UNITÀ DI IMBALLAGGIO	€
PW0400	0,400 l.	1 Spray	**16,23**

BLUE-MASTER®
by celesa



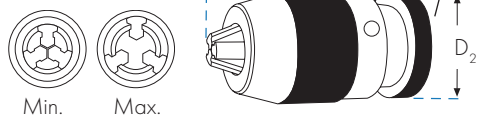
MANDRINI

MANDRINI INDUSTRIALI PER TRAPANI A COLONNA O CNC



PREC. <0,05

Ref. DC1 ALTA PRECISIONE





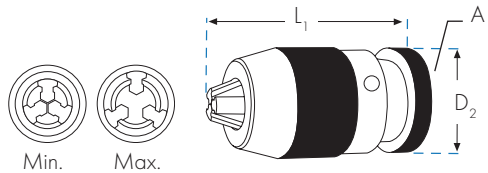


DC1

	PRECISIONE mm	Mín.-Max. mm	A	D2 mm	L1 mm	€
DC1-20-B22	<0,05	5-20	B22	58	130	**206,12**

PREC. <0,20

Ref. DC3 INDUSTRIALE LEGGERO

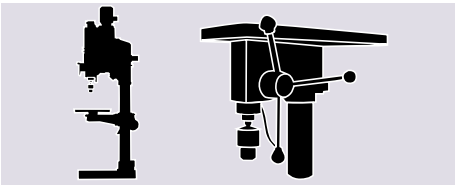




DC3

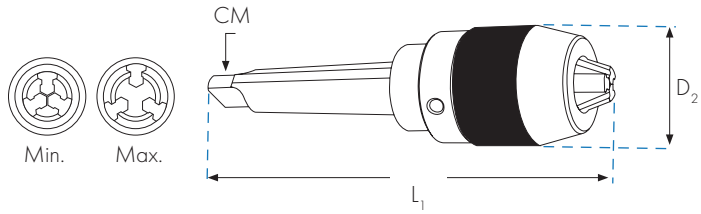
	PRECISIONE mm	Mín.-Max. mm	A	D2 mm	L1 mm	€
DC3-13-B16	<0,20	1-13	B16	43	94	**77,62**
DC3-13-3/8	<0,20	1-13	3/8-24 UNF	43	94	**77,62**
DC3-13-1/2	<0,20	1-13	1/2-20 UNF	43	94	**77,62**
DC3-16-B16	<0,20	1-16	B16	48	119	**120,48**
DC3-16-B18	<0,20	1-16	B18	48	119	**120,48**

MANDRINI INDUSTRIALI CON CODOLO CONICO PER TRAPANI A COLONNA O CNC



PREC. <0,05

Ref. DC10 ALTA PRECISIONE

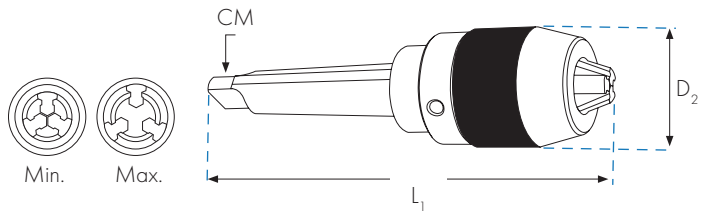




	PRECISIONE mm	Mín.-Max. mm	CM	D2 mm	L1 mm	DC10 €
DC10-13-CM3	<0,05	1-13	CM3	51	192	264,23
DC10-13-CM4	<0,05	1-13	CM4	51	218	266,79
DC10-16-CM3	<0,05	1-16	CM3	56	207	270,16

PREC. <0,12

Ref. DC11 INDUSTRIALE





	PRECISIONE mm	Mín.-Max. mm	CM	D2 mm	L1 mm	DC11 €
DC11-13-CM2	<0,12	1-13	CM2	51	174	159,55
DC11-13-CM3	<0,12	1-13	CM3	51	192	159,55
DC11-13-CM4	<0,12	1-13	CM4	51	218	159,55
DC11-16-CM3	<0,12	1-16	CM3	56	207	187,07

CHIAVE PERNO PER MANDRINO DC11



Ref. DC20-1

Ref. DC20-2

NEW

	Mín.-Max. mm	D2 mm	L1 mm	DC20 €
DC20-1	1-13	4-5	180	11,59
DC20-2	1-16	4-5	190	13,65

MANDRINI AUTOMATICI PROFESSIONALI

<950W

Ref. DC4

LOCK

- Bloccaggio automatico.
- Corpo in plastica.
- Per trapano sia in modalità a rotazione sia a percussione.

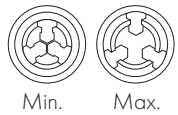


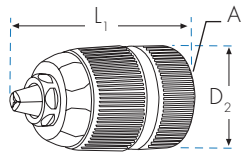






Ref. DC4-13-1/2-SDS





DC4

	W	Min.-Max. mm	A	D2 mm	L1 mm	€
DC4-13-1/2	<950	1,5-13	1/2-20 UNF	43	75	47,46
DC4-13-1/2-SDS	<950	1,5-13	1/2-20 UNF	43	75	54,75

<1050W

Ref. DC5

LOCK

- Bloccaggio automatico.
- Corpo in metallo.
- Alta potenza.
- Ganasce speciali per alto rendimento.
- Per trapano sia in modalità a rotazione sia a percussione.

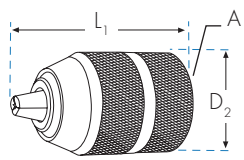






Ref. DC5-13-SDS





DC5

	W	Min.-Max. mm	A	D2 mm	L1 mm	€
DC5-13-1/2	<1050	1,5-13	1/2-20 UNF	43	75	55,42
DC5-13-SDS	<1050	1,5-13	1/2-20 UNF	43	75	63,64

<950W

Ref. DC13

LOCK

- Si blocca ruotando il trapano ed esercitando una leggera pressione sul mandrino con la mano.
- Pensato per trapani leggeri a batteria.
- Corpo in plastica.



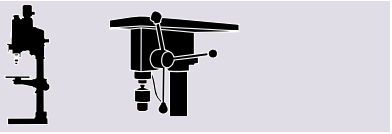


Ref. DC13-10-1/2

DC13

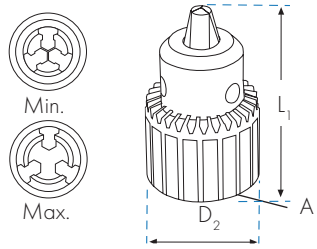
	W	Min.-Max. mm	A	D2 mm	L1 mm	€
DC13-10-1/2	<950W	0,8-10	1/2-20 UNF	40	65	12,75

MANDRINI CON CHIAVE PROFESSIONALI



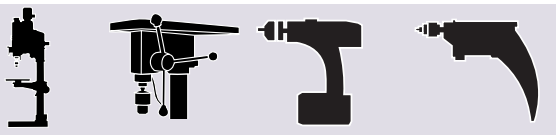
Ref. DC6

- Supporta la percussione, si consiglia l'uso in modalità a rotazione.
- Chiave inclusa





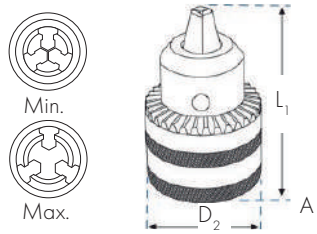
	Min.-Max. mm	A	D2 mm	L1 mm	DC6 €
DC6-06-B10	0,5-6,5	B10	31	50	38,09
DC6-06-3/8	0,5-6,5	3/8-24 UNF	31	50	38,09
DC6-10-1/2	1-10	1/2-20 UNF	37	60	29,83
DC6-13-B12	1-13	B12	46	78	38,09
DC6-13-3/8	1-13	3/8-24 UNF	46	78	55,07
DC6-16-B16	1-16	B16	57	95	46,15
DC6-19-B22	5-20	B22	68	115	63,17



LEGGERO

Ref. DC7

- Per trapano sia in modalità a rotazione sia a percussione.
- Chiave inclusa





Ref. DC7-13-SDS

	Min.-Max. mm	A	D2 mm	L1 mm	DC7 €
DC7-06-B10	0,6-6,5	B10	30	50	16,36
DC7-06-3/8	0,6-6,5	3/8-24 UNF	30	50	16,36
DC7-10-1/2	1,5-10	1/2-20 UNF	33	59	16,01
DC7-13-B12	1,5-13	B12	42	70	19,00
DC7-13-B16	1,5-13	B16	42	70	17,82
DC7-13-3/8	1,5-13	3/8-24 UNF	42	70	16,62
DC7-13-1/2	1,5-13	1/2-20 UNF	42	70	16,62
DC7-13-SDS	1,5-13	1/2-20 UNF	42	70	19,50
DC7-16-1/2	3-16	1/2-20 UNF	51	87	24,00

• Per le chiavi di ricambio per punte consultare la pagina 124

MANDRINO CON PROLUNGA FLESSIBILE

Ref. DC15-001

- Prolunga flessibile di 1050 mm.
- Mandrino automatico da Ø1 a 6 mm mm di capacità.
- Velocità massima di lavoro 6000 rpm.









	DC15-001			
	Min.-Max. mm	D2 mm	L1 mm	€
DC15-001	1-6	30	1050	35,15

MANDRINO AD ANGOLO

Ref. DC15-002

- Indicato per lavorare in luoghi di difficile accesso.
- Uso esclusivo in modalità a rotazione.
- Mandrino automatico da Ø 1 a 10 mm di capacità.
- Design leggero. Include impugnatura per mancini e destri.







	DC15-002			
	Min.-Max. mm	D2 mm	α	€
DC15-002	1-10	41	90º	20,58

MINI MANDRINO CODOLO ESAGONALE



P29
- Codolo 1/4 Esagonale - Da 0,6 a 6,0 mm
18,48

SUPPORTO A COLONNA PROFESSIONALE PER TRAPANO

Ref. STE99

- Maniglia con molla di richiamo integrata (recupera la posizione in modo rapido, semplice e senza alcuno sforzo).
- Regola di controllo di forazione, 60 mm di profondità.
- Supporto a colonna professionale per trapano con Ø 43/38 mm.
- Base in ghisa grigia con guide per morsa di stringimento e fori per ancoraggio al banco da lavoro.
- Forazione precisa di superficie, pezzi da lavorare rotondi o listelli.

43/38 mm

60 mm

510 mm

	Ø Attacco mm	Profondità forazione mm	Altezza mm	STE99 €
STE99	43/38	60	510	**66,74**















ACCESSORI PER PUNTE E MANDRINI

CHIAVI PER MANDRINI



	Min.-Max. mm	Ø mm	DC €
DC-10	1 - 10	6	4,55
DC-13	1 - 13	6	5,41
DC-16	1 - 16	8	6,73
DC-20	5 - 20	9	11,94



ADATTATORI SDS PLUS



	Filettatura (A)	DC €
DC -3/8	3/8 - 24 UNF	15,01
DC -1/2	1/2 - 20 UNF	15,01



ADATTATORE ¼" ESAGONALE



	Codolo	Filettatura	DC-01 €
DC-01	1/4" Esag.	3/8 - 24 UNF	8,68

CONI RIDUTTORI

DIN 2185



CONO MORSE EST.	CONO MORSE INT.	L1 mm	CR €
1	0	80	17,72
2	1	92	17,72
3	1	99	23,83
3	2	112	24,31
4	1	124	36,23
4	2	124	34,03
4	3	140	34,03

CONO MORSE EST.	CONO MORSE INT.	L1 mm	CR €
5	1	156	62,33
5	2	156	56,89
5	3	156	56,89
5	4	171	61,18
6	3	218	122,79
6	4	218	139,32
6	5	218	139,32

CONI AUMENTATORI

DIN 2187



CONO MORSE EST.	CONO MORSE INT.	L1 mm	D1 mm	CA €
1	2	160	30	39,22
2	3	196	36	53,33
3	4	240	48	89,95
4	5	300	63	150,97
5	6	415	80	445,46

CONI RIDUTTORI ESTENSIVI

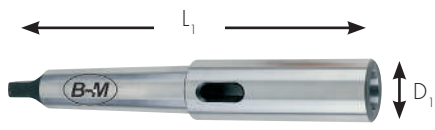
DIN 2187



CONO MORSE EST.	CONO MORSE INT.	L1 mm	CA €
2	1	160	26,98
3	1	175	37,51
3	2	194	40,50
4	1	200	56,79
4	2	215	55,51
4	3	240	58,09
5	1	232	140,58

CONO MORSE EST.	CONO MORSE INT.	L1 mm	CA €
5	2	247	127,81
5	3	268	110,52
5	4	300	124,93
6	3	330	270,07
6	4	355	270,07
6	5	390	272,04

CONI ESTENSIVI

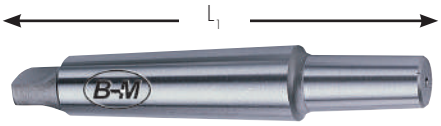


CONO MORSE EST.	CONO MORSE INT.	L1 mm	D1 mm	CA €
1	1	145	20	26,98
2	2	175	30	39,22
3	3	215	36	59,40
4	4	265	48	95,80
5	5	335	63	206,71
6	6	470	85	474,42

ACCESSORI PER PUNTE E MANDRINI

ELEMENTI DI FISSAGGIO CONICI PER MANDRINI

DIN 228 CONO MORSE — DIN 238 MANDRINI



CM	MANDRINI	L1 mm	CM €
1	B10	86	13,45
1	B12	89	10,11
1	B16	99	10,11
1	B18	107	10,11
2	B10	105	16,08
2	B12	106	11,55
2	B16	112	11,55
2	B18	119	11,55
2	B22	130	21,13
3	B12	127	19,78
3	B16	134	14,97
3	B18	140	14,97

CM	MANDRINI	L1 mm	CM €
3	B22	147	25,18
3	B24	157	32,42
4	B16	158	22,50
4	B18	166	23,10
4	B22	176	41,53
4	B24	186	42,01
5	B16	193	85,07
5	B18	200	85,07
5	B22	208	85,00
5	B24	221	92,32
6	B22	240	173,61

ESTRATTORE PER ELEMENTI DI FISSAGGIO DI MANDRINI CON CONO STANDARDIZZATO B16 E B18



CMEXT
48,16 €

ESTRATTORE CONO MORSE

DIN 317



Nº	VALIDI CM	L1 mm	CE €
0	0	90	14,32
1	1 / 2	140	16,92
3	3	190	22,35
4	4	225	30,40
5	5 / 6	265	49,36

ELEMENTI DI FISSAGGIO CONICI PER MANDRINI FILETTATI

DIN 228



	CM	A	CMR €
CMR1-3/8	1	3/8-24h	21,14
CMR1-1/2	1	1/2-20h	21,14
CMR2-3/8	2	3/8-24h	21,14
CMR2-1/2	2	1/2-20h	21,14

	CM	A	CMR €
CMR2-5/8	2	5/8-16h	21,14
CMR3-3/8	3	3/8-24h	28,60
CMR3-1/2	3	1/2-20h	28,60
CMR3-5/8	3	5/8-16h	28,60

ACCESSORI PER PUNTE

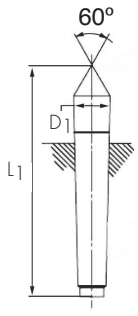
CONTROPUNTE FISSE PER TORNI





	D1 mm	L1 mm	CM INT.	CPC €
CPCM1	12	80	1	15,50
CPCM2	18	100	2	20,63
CPCM3	24	125	3	32,06
CPCM4	31	160	4	50,07
CPCM5	44	200	5	70,76
CPCM6	63	270	6	272,83

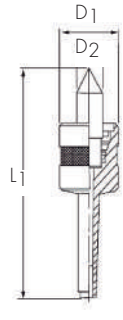
MD	CPC..MD €
CPCM2-MD	59,30
CPCM3-MD	80,94
CPCM4-MD	98,72
CPCM5-MD	167,82



CONTROPUNTE ROTANTI PER TORNI



	D1 mm	D2 mm	L1 mm	CM	PGC €
PGCM1	34	18	120	1	148,56
PGCM2	50	21	148	2	165,69
PGCM3	60	24	185	3	222,75
PGCM4	63	30	220	4	264,00
PGCM5	75	44	260	5	381,56



PORTAMASCHI E TESTINE

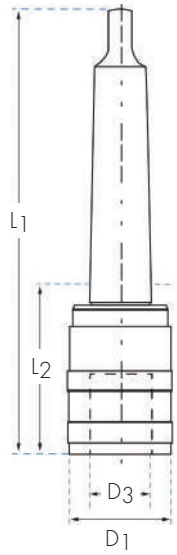
Ref. TC10

DIN 228B





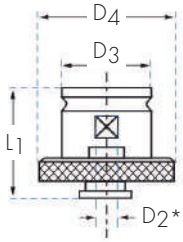
- Con compensazione longitudinale di compressione e trazione.
- Codolo Cono Morse





	D1 mm	D3 mm	L1 mm	L2 mm	CM	TC10 €
TC10-19-CM2	36	19	122	47	2	316,35
TC10-19-CM3	36	19	141	47	3	404,19
TC10-31-CM3	53	31	165	71	3	520,11
TC10-31-CM4	53	31	189	72	4	579,55
TC10-48-CM4	78	48	222	105	4	876,75
TC10-48-CM5	78	48	255	106	5	936,20

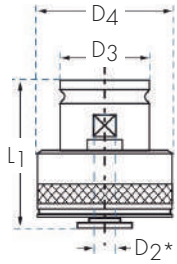
PORTAMASCHI SENZA FRIZIONE





	D2 mm	D3 mm	L1 mm	D4 mm	TC15 €
TC15-19-035	3,5	19	28	30	42,36
TC15-19-040	4,0	19	28	30	42,36
TC15-19-045	4,5	19	28	30	42,36
TC15-19-060	6,0	19	28	30	42,36
TC15-19-070	7,0	19	28	30	42,36
TC15-19-080	8,0	19	28	30	42,36
TC15-19-090	9,0	19	28	30	42,36
TC15-19-100	10,0	19	28	30	42,36
TC15-31-070	7,0	31	46	48	59,48
TC15-31-080	8,0	31	46	48	59,48
TC15-31-090	9,0	31	46	48	59,48
TC15-31-100	10,0	31	46	48	59,48
TC15-31-110	11,0	31	46	48	59,48
TC15-31-120	12,0	31	46	48	59,48
TC15-31-140	14,0	31	46	48	59,48
TC15-31-160	16,0	31	46	48	59,48
TC15-48-110	11,0	48	69	70	157,58
TC15-48-120	12,0	48	69	70	157,58
TC15-48-140	14,0	48	69	70	157,58
TC15-48-160	16,0	48	69	70	157,58
TC15-48-180	18,0	48	69	70	157,58
TC15-48-200	20,0	48	69	70	157,58
TC15-48-220	22,0	48	69	70	157,58
TC15-48-250	25,0	48	69	70	157,58
TC15-48-280	28,0	48	69	70	157,58

PORTAMASCHI CON FRIZIONE





	D2 mm	D3 mm	L1 mm	D4 mm	TC16
TC16-19-035	3,5	19	46	32	101,66
TC16-19-040	4,0	19	46	32	101,66
TC16-19-045	4,5	19	46	32	101,66
TC16-19-060	6,0	19	46	32	101,66
TC16-19-070	7,0	19	46	32	101,66
TC16-19-080	8,0	19	46	32	101,66
TC16-19-090	9,0	19	46	32	101,66
TC16-19-100	10,0	19	46	32	101,66
TC16-31-070	7,0	31	69	50	128,77
TC16-31-080	8,0	31	69	50	128,77
TC16-31-090	9,0	31	69	50	128,77
TC16-31-100	10,0	31	69	50	128,77
TC16-31-110	11,0	31	69	50	128,77
TC16-31-120	12,0	31	69	50	128,77
TC16-31-140	14,0	31	69	50	128,77
TC16-31-160	16,0	31	69	50	128,77
TC16-48-110	11,0	48	100	70	285,10
TC16-48-120	12,0	48	100	70	285,10
TC16-48-140	14,0	48	100	70	285,10
TC16-48-160	16,0	48	100	70	285,10
TC16-48-180	18,0	48	100	70	285,10
TC16-48-200	20,0	48	100	70	285,10
TC16-48-220	22,0	48	100	70	285,10
TC16-48-250	25,0	48	100	70	285,10
TC16-48-280	28,0	48	100	70	285,10

* D2: Ø Codolo del maschio

* Per informazioni sul Ø codolo del maschio (D2) consultare la pagina 127.

MASCHI M/MF COMPATIBILI PER PORTAMASCHI CON / SENZA FRIZIONE

D2 mm.								
3,5	4	4,5	6	7	8	9	10	11
M3x0,50R	M3,5x0,60R	M4x0,50R	M4,5x0,50R	M9x1,00D	M8x1,25R	M9x1,25R	M10x1,50R	M13x0,75D
M3x0,60R	M3,5x0,75R	M4x0,70R	M4,5x0,75R	M9x1,25D	M11x0,75D	M12x0,75D		M13x1,00D
M5x0,50D		M4x0,75R	M5x0,50R	M10x0,50D	M11x1,00D	M12x1,00D		M13x1,25D
M5x0,75D		M4x0,80R	M5x0,75R	M10x0,75D	M11x1,25D	M12x1,25D		M13x1,50D
M5x0,80D		M6x0,50D	M5x0,80R	M10x1,00D	M11x1,50D	M12x1,50D		M13x1,75D
M5x0,90D		M6x0,75D	M5x0,90R	M10x1,25D		M12x1,75D		M14x0,75D
		M6x1,00D	M5x1,00R	M10x1,50D				M14x1,00D
			M5,5x0,90R					M14x1,25D
			M6x0,50R					M14x1,50D
			M6x0,75R					M14x2,00D
			M6x1,00R					
			M6x1,25R					
			M8x0,50D					
			M8x0,75D					
			M8x1,00D					
			M8x1,25D					
			M8x1,50D					

D2 mm.							
12	14	16	18	20	22	25	28
M15x1,00D	M18x1,00D	M20x1,00D	M22x1,00D	M27x1,00D	M30x1,00D	M33x1,00D	M34x1,50D
M15x1,25D	M18x1,25D	M20x1,25D	M22x1,25D	M27x1,50D	M30x1,50D	M33x1,50D	M34x2,00D
M15x1,50D	M18x1,50D	M20x1,50D	M22x1,50D	M27x2,00D	M30x2,00D	M33x2,00D	M35x1,50D
M15x2,00D	M18x2,00D	M20x2,00D	M22x2,00D	M27x3,00D	M30x3,00D	M33x3,50D	M35x2,00D
M16x1,00D	M18x2,50D	M20x2,50D	M22x2,50D	M28x1,00D	M30x3,50D		M36x1,50D
M16x1,25D	M19x1,00D	M21x1,00D	M23x1,00D	M28x1,50D	M32x1,00D		M36x2,00D
M16x1,50D	M19x1,25D	M21x1,25D	M23x1,50D	M28x2,00D	M32x1,50D		M36x3,00D
M16x2,00D	M19x1,50D	M21x1,50D	M24x1,00D		M32x2,00D		M36x4,00D
M17x1,00D	M19x2,00D		M24x1,25D				M38x1,50D
M17x1,25D			M24x1,50D				M38x2,00D
M17x1,50D			M24x2,00D				
			M24x3,00D				
			M25x1,00D				
			M25x1,25D				
			M25x1,50D				
			M25x2,00D				
			M26x1,00D				
			M26x1,50D				
			M26x2,00D				

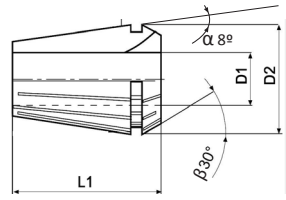
* D2: Codolo del maschio
* La tabella si riferisce a codoli a norma DIN:
* R = Rinforzato = DIN371
* D = Ridotto = DIN374 / DIN376

PINZE DI PRECISIONE

TIPO ER **DIN 6499-B**

α: 8° β: 30°

- Pinze adatte ad utensili a codolo cilindrico liscio.



D2: 8,5 L1: 13,5




ER8

EXC 0,01	INDUSTRIALE		EXC 0,005	ALTA PRECISIONE	
	Capacità D1	€		Capacità D1	€
ER8-1	0,5-1,0	**51,97**	ER8-1MICRO	0,5-1,0	-
ER8-1,5	1,0-1,5	**51,97**	ER8-1,5MICRO	1,0-1,5	-
ER8-2	1,5-2,0	**44,55**	ER8-2MICRO	1,5-2,0	-
ER8-2,5	2,0-2,5	**44,55**	ER8-2,5MICRO	2,0-2,5	-
ER8-3	2,5-3,0	**39,11**	ER8-3MICRO	2,5-3,0	-
ER8-3,5	3,0-3,5	**39,11**	ER8-3,5MICRO	3,0-3,5	-
ER8-4	3,5-4,0	**39,11**	ER8-4MICRO	3,5-4,0	-
ER8-4,5	4,0-4,5	**39,11**	ER8-4,5MICRO	4,0-4,5	-
ER8-5	4,5-5,0	**39,11**	ER8-5MICRO	4,5-5,0	-

D2: 11,5 L1: 18




ER11

EXC 0,01	INDUSTRIALE		EXC 0,005	ALTA PRECISIONE	
	Capacità D1	€		Capacità D1	€
ER11-1	0,5-1,0	**49,50**	ER11-1MICRO	0,5-1,0	-
ER11-1,5	1,0-1,5	**49,50**	ER11-1,5MICRO	1,0-1,5	-
ER11-2	1,5-2,0	**42,44**	ER11-2MICRO	1,5-2,0	-
ER11-2,5	2,0-2,5	**42,44**	ER11-2,5MICRO	2,0-2,5	-
ER11-3	2,5-3,0	**37,26**	ER11-3MICRO	2,5-3,0	-
ER11-3,5	3,0-3,5	**37,26**	ER11-3,5MICRO	3,0-3,5	**53,33**
ER11-4	3,5-4,0	**37,26**	ER11-4MICRO	3,5-4,0	**53,33**
ER11-4,5	4,0-4,5	**37,26**	ER11-4,5MICRO	4,0-4,5	**53,33**
ER11-5	4,5-5,0	**37,26**	ER11-5MICRO	4,5-5,0	**53,33**
ER11-5,5	5,0-5,5	**37,26**	ER11-5,5MICRO	5,0-5,5	**53,33**
ER11-6	5,5-6,0	**37,26**	ER11-6MICRO	5,5-6,0	**53,33**
ER11-6,5	6,0-6,6	**37,26**	ER11-6,5MICRO	6,0-6,6	**53,33**
ER11-7	6,5-7,0	**37,26**	ER11-7MICRO	6,5-7,0	**53,33**

D2: 17 L1: 27,5




ER16

EXC 0,01	INDUSTRIALE		EXC 0,005	ALTA PRECISIONE	
	Capacità D1	€		Capacità D1	€
ER16-1	0,5-1,0	**44,36**	ER16-1MICRO	0,5-1,0	-
ER16-2	1,0-2,0	**39,93**	ER16-2MICRO	1,0-2,0	-
ER16-3	2,0-3,0	**35,93**	ER16-3MICRO	2,0-3,0	-
ER16-4	3,0-4,0	**35,93**	ER16-4MICRO	3,0-4,0	**47,49**
ER16-5	4,0-5,0	**35,93**	ER16-5MICRO	4,0-5,0	**47,49**
ER16-6	5,0-6,0	**35,93**	ER16-6MICRO	5,0-6,0	**47,49**
ER16-7	6,0-7,0	**35,93**	ER16-7MICRO	6,0-7,0	**47,49**
ER16-8	7,0-8,0	**35,93**	ER16-8MICRO	7,0-8,0	**47,49**
ER16-9	8,0-9,0	**35,93**	ER16-9MICRO	8,0-9,0	**47,49**
ER16-10	9,0-10,0	**35,93**	ER16-10MICRO	9,0-10,0	**47,49**

D2: 26 L1: 34




ER25

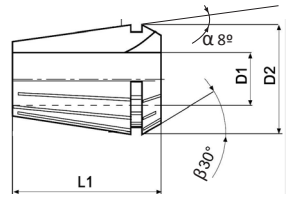
EXC 0,01	INDUSTRIALE		EXC 0,005	ALTA PRECISIONE	
	Capacità D1	€		Capacità D1	€
ER25-2	1,0-2,0	**41,14**	ER25-2MICRO	1,0-2,0	-
ER25-3	2,0-3,0	**41,14**	ER25-3MICRO	2,0-3,0	-
ER25-4	3,0-4,0	**41,14**	ER25-4MICRO	3,0-4,0	**51,14**
ER25-5	4,0-5,0	**41,14**	ER25-5MICRO	4,0-5,0	**51,14**
ER25-6	5,0-6,0	**41,14**	ER25-6MICRO	5,0-6,0	**51,14**
ER25-7	6,0-7,0	**41,14**	ER25-7MICRO	6,0-7,0	**51,14**
ER25-8	7,0-8,0	**41,14**	ER25-8MICRO	7,0-8,0	**51,14**
ER25-9	8,0-9,0	**41,14**	ER25-9MICRO	8,0-9,0	**51,14**
ER25-10	9,0-10,0	**41,14**	ER25-10MICRO	9,0-10,0	**51,14**
ER25-11	10,0-11,0	**41,14**	ER25-11MICRO	10,0-11,0	**51,14**
ER25-12	11,0-12,0	**41,14**	ER25-12MICRO	11,0-12,0	**51,14**
ER25-13	12,0-13,0	**41,14**	ER25-13MICRO	12,0-13,0	**51,14**
ER25-14	13,0-14,0	**41,14**	ER25-14MICRO	13,0-14,0	**51,14**
ER25-15	14,0-15,0	**41,14**	ER25-15MICRO	14,0-15,0	**51,14**
ER25-16	15,0-16,0	**41,14**	ER25-16MICRO	15,0-16,0	**51,14**

PINZE DI PRECISIONE

TIPO ER **DIN 6499-B**

α: 8° β: 30°

- Pinze adatte ad utensili a codolo cilindrico liscio.



D2: 33 L1: 40





D2: 41 L1: 46





ER32

EXC 0,01	INDUSTRIALE		EXC 0,005	ALTA PRECISIONE	
	Capacità D1	€		Capacità D1	€
ER32-3	2,0-3,0	**39,10**	ER32-3MICRO	2,0-3,0	-
ER32-4	3,0-4,0	**39,10**	ER32-4MICRO	3,0-4,0	**53,41**
ER32-5	4,0-5,0	**39,10**	ER32-5MICRO	4,0-5,0	**53,41**
ER32-6	5,0-6,0	**39,10**	ER32-6MICRO	5,0-6,0	**53,41**
ER32-7	6,0-7,0	**39,10**	ER32-7MICRO	6,0-7,0	**53,41**
ER32-8	7,0-8,0	**39,10**	ER32-8MICRO	7,0-8,0	**53,41**
ER32-9	8,0-9,0	**39,10**	ER32-9MICRO	8,0-9,0	**53,41**
ER32-10	9,0-10,0	**39,10**	ER32-10MICRO	9,0-10,0	**53,41**
ER32-11	10,0-11,0	**39,10**	ER32-11MICRO	10,0-11,0	**53,41**
ER32-12	11,0-12,0	**39,10**	ER32-12MICRO	11,0-12,0	**53,41**
ER32-13	12,0-13,0	**39,10**	ER32-13MICRO	12,0-13,0	**53,41**
ER32-14	13,0-14,0	**39,10**	ER32-14MICRO	13,0-14,0	**53,41**
ER32-15	14,0-15,0	**39,10**	ER32-15MICRO	14,0-15,0	**53,41**
ER32-16	15,0-16,0	**39,10**	ER32-16MICRO	15,0-16,0	**53,41**
ER32-17	16,0-17,0	**39,10**	ER32-17MICRO	16,0-17,0	**53,41**
ER32-18	17,0-18,0	**39,10**	ER32-18MICRO	17,0-18,0	**53,41**
ER32-19	18,0-19,0	**39,10**	ER32-19MICRO	18,0-19,0	**53,41**
ER32-20	19,0-20,0	**39,10**	ER32-20MICRO	19,0-20,0	**53,41**

ER40

EXC 0,01	INDUSTRIALE		EXC 0,005	ALTA PRECISIONE	
	Capacità D1	€		Capacità D1	€
ER40-3	2,0-3,0	**49,69**	ER40-3MICRO	2,0-3,0	-
ER40-4	3,0-4,0	**49,69**	ER40-4MICRO	3,0-4,0	**63,55**
ER40-5	4,0-5,0	**49,69**	ER40-5MICRO	4,0-5,0	**63,55**
ER40-6	5,0-6,0	**49,69**	ER40-6MICRO	5,0-6,0	**63,55**
ER40-7	6,0-7,0	**49,69**	ER40-7MICRO	6,0-7,0	**63,55**
ER40-8	7,0-8,0	**49,69**	ER40-8MICRO	7,0-8,0	**63,55**
ER40-9	8,0-9,0	**49,69**	ER40-9MICRO	8,0-9,0	**63,55**
ER40-10	9,0-10,0	**49,69**	ER40-10MICRO	9,0-10,0	**63,55**
ER40-11	10,0-11,0	**49,69**	ER40-11MICRO	10,0-11,0	**63,55**
ER40-12	11,0-12,0	**49,69**	ER40-12MICRO	11,0-12,0	**63,55**
ER40-13	12,0-13,0	**49,69**	ER40-13MICRO	12,0-13,0	**63,55**
ER40-14	13,0-14,0	**49,69**	ER40-14MICRO	13,0-14,0	**63,55**
ER40-15	14,0-15,0	**49,69**	ER40-15MICRO	14,0-15,0	**63,55**
ER40-16	15,0-16,0	**49,69**	ER40-16MICRO	15,0-16,0	**63,55**
ER40-17	16,0-17,0	**49,69**	ER40-17MICRO	16,0-17,0	**63,55**
ER40-18	17,0-18,0	**49,69**	ER40-18MICRO	17,0-18,0	**63,55**
ER40-19	18,0-19,0	**49,69**	ER40-19MICRO	18,0-19,0	**63,55**
ER40-20	19,0-20,0	**49,69**	ER40-20MICRO	19,0-20,0	**63,55**
ER40-21	20,0-21,0	**49,69**	ER40-21MICRO	20,0-21,0	**63,55**
ER40-22	21,0-22,0	**49,69**	ER40-22MICRO	21,0-22,0	**63,55**
ER40-23	22,0-23,0	**49,69**	ER40-23MICRO	22,0-23,0	**63,55**
ER40-24	23,0-24,0	**49,69**	ER40-24MICRO	23,0-24,0	**63,55**
ER40-25	24,0-25,0	**49,69**	ER40-25MICRO	24,0-25,0	**63,55**
ER40-26	25,0-26,0	**49,69**	ER40-26MICRO	25,0-26,0	**63,55**

AFFILATRICE PROFESSIONALE CERTIFICATA BLUE-MASTER



*Include valigetta e mola di scorta



Ref. AFB10



"Dimentica i problemi elettrici delle altre affilatrici"
Include dispositivo anti-cortocircuiti

AFB10					
CAPACITÀ AFFILATURA:	Ø 3-13				
ANGOLO DI TAGLIO:	118°				
TIPI DI AFFILATURE:					
RIAFFILA PUNTE:	HSS	HSSCo	MD	TiN	PMD

283,04 €

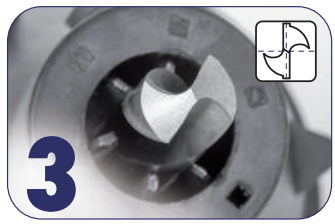
AFFILA PUNTE IN 4 SEMPLICI PASSI:



Posiziona e regola la punta nel mandrino



Affila la punta



Controlla l'affilatura convenzionale



Affilatura secondaria a croce (Split Point)

MANDRINO DI RICAMBIO



PAFB10
33,25 €

MOLA IN DIAMANTE GRANA STANDARD



MAFB10
34,82 €

SUPPORTO PER AFB10



SOPAFB10
31,16 €

AFFILATRICI PER PUNTE DRILL DOCTOR

750X
Alta precisione



	AFB1
CAPACITÀ AFFILATURA:	Ø 2,5-19
ANGOLO DI TAGLIO:	118° / 135°
TIPI DI AFFILATURE:	
RIAFFILA PUNTE:	HSS / HSSCo / MD / TiN / PMD
	520,19 €

*Include valigetta

500X
Affilatura professionale



	AFB2
CAPACITÀ AFFILATURA:	Ø 2,5-13
ANGOLO DI TAGLIO:	118° / 135°
TIPI DI AFFILATURE:	
RIAFFILA PUNTE:	HSS / HSSCo / MD / TiN / PMD
	436,95 €

XP
Pratico ed economico



	AFB3
CAPACITÀ AFFILATURA:	Ø 2,5-13
ANGOLO DI TAGLIO:	118°
TIPI DI AFFILATURE:	
RIAFFILA PUNTE:	HSS / HSSCo / MD / TiN / PMD
	210,58 €

ACCESSORI PER AFFILATRICI

MANDRINI PER AFFILATRICI



Per 750X

AFB1PB
78,71 €



Per punte a sinistra

AFB2PBI
78,74 €

MOLA GRANA GROSSA PER AFFILATRICI 750X, 500X



AFBT
75,33 €

MOLA GRANA STANDARD PER AFFILATRICI 750X, 500X



AFBR
75,33 €

VITI PER AFFILATRICI 750X Y 500X



AFBTLL
8,64 €

SUPPORTO PER AFB10



SOPAFB10
31,16 €

BLUE-MASTER®
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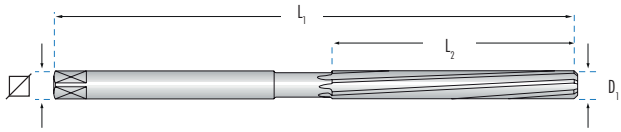
ALESATORI

ALESATORE A MANO HSS DIN 206B

Ref. EM1

DIN 206B | HSS | TOL H7 | 8°





D1 mm	L1 mm	L2 mm	⌀	EM1 €
1,00	34	13	-	49,03
1,50	41	20	1,12	35,65
1,60	44	21	1,25	35,65
1,70	44	21	1,25	35,65
2,00	50	25	1,60	25,62
2,10	50	25	1,60	34,00
2,20	54	27	1,80	34,00
2,25	54	27	1,80	34,00
2,30	54	27	1,80	34,00
2,40	58	29	2,00	34,00
2,50	58	29	2,00	25,62
2,60	58	29	2,00	34,00
2,70	62	31	2,25	34,00
2,75	62	31	2,25	32,42
2,80	62	31	2,25	34,00
2,90	62	31	2,25	34,00
3,00	62	31	2,25	25,62
1/8	66	33	2,50	38,32
3,25	66	33	2,50	36,01
3,50	71	35	2,80	26,85
3,75	71	35	2,80	36,01
5/32"	76	38	3,15	40,12
4,00	76	38	3,15	21,47
4,25	76	38	3,15	37,68
4,50	81	41	3,55	21,45
4,75	81	41	3,55	37,68
3/16"	87	44	4,00	37,68
5,00	87	44	4,00	21,45
5,25	87	44	4,00	37,68
5,50	93	47	4,50	24,10
5,75	93	47	4,50	37,68
6,00	93	47	4,50	24,10
6,25	100	50	5,00	37,68
1/4"	100	50	5,00	37,68
6,50	100	50	5,00	25,30
6,75	107	54	5,60	37,68

D1 mm	L1 mm	L2 mm	⌀	EM1 €
7,00	107	54	5,60	25,30
9/32"	107	54	5,60	47,29
7,25	107	54	5,60	44,77
7,50	107	54	5,60	26,75
7,75	115	58	6,30	44,77
5/16"	115	58	6,30	44,77
8,00	115	58	6,30	28,27
8,25	115	58	6,30	47,00
8,50	115	58	6,30	29,71
8,75	124	62	7,10	47,00
9,00	124	62	7,10	32,62
9,25	124	62	7,10	49,04
9,50	124	62	7,10	39,95
3/8"	133	66	8,00	52,60
9,75	133	66	8,00	49,04
10,00	133	66	8,00	33,72
10,25	133	66	8,00	63,85
10,50	133	66	8,00	44,69
10,75	142	71	9,00	63,85
11,00	142	71	9,00	38,03
7/16"	142	71	9,00	71,60
11,25	142	71	9,00	68,70
11,50	142	71	9,00	50,20
11,75	142	71	9,00	68,70
12,00	152	76	10,00	44,95
12,50	152	76	10,00	66,58
1/2"	152	76	10,00	108,60
13,00	152	76	10,00	47,67
13,50	163	81	11,20	68,28
14,00	163	81	11,20	52,64
9/16"	163	81	11,20	114,59
14,50	163	81	11,20	87,53
15,00	163	81	11,20	56,87
15,50	175	87	12,50	95,30
5/8"	175	87	12,50	130,15
16,00	175	87	12,50	61,85

D1 mm	L1 mm	L2 mm	⌀	EM1 €
16,50	175	87	12,50	114,80
17,00	175	87	12,50	68,68
17,50	188	93	14,00	128,15
18,00	188	93	14,00	77,36
18,50	188	93	14,00	137,62
19,00	188	93	14,00	82,15
3/4"	201	100	16,00	157,41
19,50	201	100	16,00	140,45
20,00	201	100	16,00	98,08
20,50	201	100	16,00	181,75
13/16"	201	100	16,00	167,08
21,00	201	100	16,00	105,84
21,50	215	107	18,00	183,52
22,00	215	107	18,00	109,86
7/8"	215	107	18,00	238,24
22,50	215	107	18,00	227,85
23,00	215	107	18,00	128,80
23,50	215	107	18,00	242,35
24,00	231	115	20,00	120,33
24,50	231	115	20,00	267,03
25,00	231	115	20,00	129,20
1"	231	115	20,00	249,61
25,50	231	155	20,00	291,72
26,00	231	115	20,00	145,01
26,50	231	115	20,00	314,74
27,00	247	124	22,40	205,45
27,50	247	124	22,40	322,29
28,00	247	124	22,40	166,15
28,50	247	124	22,40	338,89
29,00	247	124	22,40	342,39
29,50	247	124	22,40	376,27
30,00	247	124	22,40	187,51
30,50	265	133	25,00	419,29
31,00	265	133	25,00	348,03
31,50	265	133	25,00	453,34
32,00	265	133	25,00	284,15

D1 mm	L1 mm	L2 mm	⌀	EM1 €
32,50	265	133	25,00	407,40
33,00	265	133	25,00	310,86
33,50	265	133	25,00	427,22
34,00	284	142	28,00	302,94
34,50	284	142	28,00	440,92
35,00	284	142	28,00	270,62
35,50	284	142	28,00	481,85
36,00	284	142	28,00	283,41
36,50	284	142	28,00	521,04
37,00	284	142	28,00	463,70
37,50	284	142	28,00	558,70
38,00	305	152	31,50	379,54
38,50	305	152	31,50	558,70
39,00	305	152	31,50	486,95
39,50	305	152	31,50	586,63
40,00	305	152	31,50	447,99
40,50	305	152	31,50	676,26
41,00	305	152	31,50	586,82
41,50	305	152	31,50	737,71
42,00	305	152	31,50	586,82
42,50	305	152	31,50	764,39
43,00	326	163	35,50	701,63
43,50	326	163	35,50	932,60
44,00	326	163	35,50	701,63
44,50	326	163	35,50	932,92
45,00	326	163	35,50	742,10
45,50	326	163	35,50	998,80
46,00	326	163	35,50	833,40
46,50	326	163	35,50	1.097,18
47,00	326	163	35,50	910,72
47,50	326	163	35,50	1.343,07
48,00	347	174	40,00	995,21
48,50	347	174	40,00	1.176,04
49,00	347	174	40,00	1.015,10
49,50	347	174	40,00	1.222,93
50,00	347	174	40,00	977,86

ALESATORE IN DECIMI

D1 mm	EM1 €
3,10 - 3,90	36,01
4,10 - 6,90	37,68
7,10 - 7,90	44,77
8,10 - 8,90	47,00
9,10 - 9,90	49,04
10,10 - 10,90	63,85
11,10 - 11,90	68,70
12,10 - 12,90	108,60

TOLLERANZA H7 (e μ m)

1-3	3-6	6-10	10-18	18-30	30-50	50-80	80-120	120-180
+8	+10	+12	+15	+17	+21	+25	+29	+34
+4	+5	+6	+8	+9	+12	+14	+16	+20

TOLLERANZA RISTRETTA O FINE (en μ m)

1,00-6	6,01-12
+4	+5
+0	+0

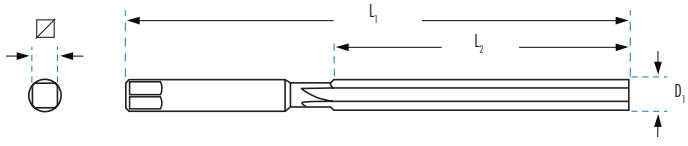
Disponibili alesatori di precisione centesimale su richiesta.

ALESATORE A MANO FAÇON PARIS CON GUIDA

Ref. **EMA**

NFE 74112 | **HSS** | **TOL K7** | **0°**

1.- Dentatura dritta
2.- Faccia di appoggio







	D1 mm	L1 mm	L2 mm	⊠	EMA €
EMA0300	3,00	85	50	2,24	42,01 *
EMA0400	4,00	100	60	3,15	42,01 *
EMA0500	5,00	112	67	4,00	43,22 *
EMA0600	6,00	118	71	4,50	43,22 *
EMA0700	7,00	132	80	5,60	43,22 *
EMA0800	8,00	140	85	6,30	47,53 *
EMA0900	9,00	150	90	7,10	54,14 *
EMA1000	10,00	160	95	8,00	54,14 *
EMA1100	11,00	170	100	9,00	62,73 *
EMA1200	12,00	180	106	10,00	62,73 *
EMA1300	13,00	180	106	10,00	69,99 *
EMA1400	14,00	190	112	11,20	69,99 *
EMA1500	15,00	190	112	11,20	84,51 *
EMA1600	16,00	200	118	12,50	84,51 *
EMA1700	17,00	200	118	12,50	96,40 *

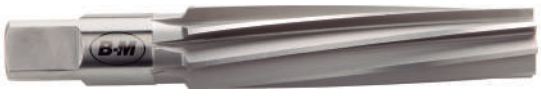
	D1 mm	L1 mm	L2 mm	⊠	EMA €
EMA1800	18,00	212	125	14,00	96,40 *
EMA1900	19,00	212	125	14,00	112,24 *
EMA2000	20,00	224	132	16,00	112,24 *
EMA2100	21,00	224	132	16,00	135,17 *
EMA2200	22,00	236	140	18,00	135,17 *
EMA2300	23,00	236	140	18,00	157,98 *
EMA2400	24,00	250	150	20,00	173,77 *
EMA2500	25,00	250	150	20,00	173,77 *
EMA2600	26,00	250	150	20,00	194,35 *
EMA2700	27,00	265	160	22,40	194,35 *
EMA2800	28,00	265	160	22,40	213,78 *
EMA2900	29,00	265	160	22,40	241,36 *
EMA3000	30,00	265	160	22,40	241,36 *
EMA3200	32,00	280	170	25,00	274,46 *
EMA3400	34,00	300	180	28,00	329,79 *

*Fino ad esaurimento scorte.

ALESATORE A MANO PER CONO MORSE

Ref. **ECM**

DIN 204D | **HSS**



	CM	Ø mm min. x max.	L1 mm	L2 mm	ECM €
ECM0	0	6,547 - 9,722	93	61	90,73
ECM1	1	9,571 - 12,863	102	66	99,67
ECM2	2	14,733 - 18,679	121	79	128,03
ECM3	3	20,010 - 24,829	146	96	201,78
ECM4	4	26,229 - 32,410	179	119	346,76
ECM5	5	37,873 - 45,767	222	150	733,37

ALESATORE A MANO PRECEDENTE A MASCHIO NPT

Ref. **EMNPT**

1:16 | **HSS** | **NPT**



	Filetto NPT	Ø	Ø mm min. x max.	L1 mm	L2 mm	EMNPT €
EMNPT1/16	NPT1/16	6,20	5,915 - 6,978	70	17	152,09
EMNPT1/8	NPT1/8	8,50	8,022 - 9,085	70	17	155,25
EMNPT1/4	NPT1/4	11,00	10,283 - 11,971	80	27	167,79
EMNPT3/8	NPT3/8	14,50	13,703 - 15,391	85	27	188,31
EMNPT1/2	NPT1/2	17,80	16,913 - 19,101	95	35	221,44

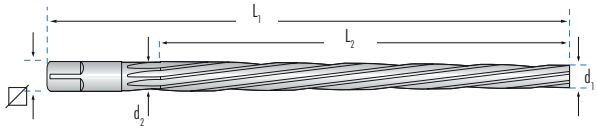
ALESATORE A MANO HSS DIN9B

Ref. EM2

TOL H9 | DIN 9B | HSS | 2% 1:50

SPINE CONICHE DIN 1





Le misure Ø1-1,20-1,50-2 e 2,50 mm si fabbricano a canali dritti.

	D mm	Ø mm d1 x d2	L1 mm	L2 mm	⊠	EM2 €
EM20100	1,00	0,95 x 1,46	46	28	2,50	69,96
EM20120	1,20	1,15 x 1,74	50	32	2,50	69,96
EM20150	1,50	1,40 x 2,14	57	37	2,50	53,04
EM20200	2,00	1,90 x 2,86	68	48	2,50	43,49
EM20250	2,50	2,40 x 3,36	68	48	2,50	43,49
EM20300	3,00	2,90 x 4,06	80	58	3,15	41,46
EM20350	3,50	3,40 x 4,66	87	63	3,15	53,66
EM20400	4,00	3,90 x 5,26	93	68	4,00	42,28
EM20450	4,50	4,40 x 5,80	95	70	4,00	49,99
EM20500	5,00	4,90 x 6,36	100	73	5,00	40,26
EM20550	5,50	5,40 x 7,20	118	90	5,00	50,94
EM20600	6,00	5,90 x 8,00	135	105	6,30	51,46
EM20650	6,50	6,40 x 8,60	140	110	6,30	62,58
EM20700	7,00	6,90 x 9,40	160	125	6,30	62,58
EM20800	8,00	7,90 x 10,80	180	145	8,00	82,74
EM21000	10,00	9,90 x 13,40	215	175	10,00	95,47
EM21200	12,00	11,80 x 16,00	255	210	11,20	123,01
EM21300	13,00	12,80 x 17,00	255	210	11,20	134,11
EM21400	14,00	13,80 x 18,00	255	210	11,20	183,14
EM21600	16,00	15,80 x 20,40	280	230	14,00	185,53
EM22000	20,00	19,80 x 24,80	310	250	18,00	246,99
EM22500	25,00	24,70 x 30,70	370	300	22,40	415,08
EM23000	30,00	29,70 x 36,10	400	320	25,00	903,97
EM24000	40,00	39,70 x 46,50	430	340	31,50	1.489,95
EM25000	50,00	49,70 x 56,90	460	360	40,00	2.328,57

ALESATORE A MACCHINA HSSCo DIN 2179E

Ref. EM29

TOL H9 | DIN 2179E | HSSCo | 2% 1:50

SPINE CONICHE DIN 1



	D1 mm	D2 mm	Ø mm min. x max.	L1 mm	L2 mm	EM29 €
EM290150	1,50	2,00	1,40 - 2,14	70	37	74,92
EM290200	2,00	3,00	1,90 - 2,86	68	48	76,43
EM290250	2,50	3,00	2,40 - 3,35	86	48	85,05
EM290300	3,00	4,00	2,90 - 4,06	100	58	68,41
EM290400	4,00	5,00	3,90 - 5,26	112	68	65,85
EM290500	5,00	6,50	4,90 - 6,36	122	73	61,60
EM290600	6,00	8,00	5,90 - 8,00	160	105	59,11
EM290700	7,00	9,00	6,90 - 9,40	160	125	94,43
EM290800	8,00	10,00	7,90 - 10,80	207	145	108,91
EM291000	10,00	12,50	9,90 - 13,40	245	175	148,07
EM291200	12,00	16,00	11,80 - 16,00	290	210	224,55

ALESATORE CILINDRICI A MACCHINA HSSCo DIN 212

Ref. EM3

DIN 212B | **HSSCo**



MATERIALE				HSSCo
NORMA				DIN 212B
TOLLERANZA				TOL H7
ELICA				8°
D_1 mm	L_1 mm	L_2 mm	D_2 mm	EM3 €
1,00	34	7	1,00	66,08
1,20	34	7	1,20	58,73
1,40	40	8	1,40	54,61
1,50	40	8	1,50	35,71
1,60	43	9	1,60	35,98
1,70	43	9	1,70	35,70
1,80	46	10	1,80	33,69
1,90	46	10	1,90	33,69
2,00	49	11	2,00	25,48
2,10	49	11	2,10	28,48
2,20	53	12	2,20	28,48
2,30	53	12	2,30	28,48
2,40	57	14	2,40	28,48
2,50	57	14	2,50	25,93
2,60	57	14	2,60	28,48
2,70	61	15	2,70	28,48
2,80	61	15	2,80	28,48
2,90	61	15	2,90	28,48
3,00	61	15	3,00	25,48
3,10	65	16	3,10	34,41
3,20	65	16	3,20	34,41
3,30	65	16	3,30	34,41
3,40	70	18	3,40	34,41
3,50	70	18	3,50	25,88
3,60	70	18	3,60	34,41
3,70	70	18	3,70	34,41
3,80	75	19	4,00	34,41
3,90	75	19	4,00	34,41
4,00	75	19	4,00	25,88
4,10	75	19	4,00	34,41

D_1 mm	L_1 mm	L_2 mm	D_2 mm	EM3 €
4,20	75	19	4,00	34,41
4,30	80	21	4,50	34,41
4,40	80	21	4,50	34,41
4,50	80	21	4,50	25,88
4,60	80	21	4,50	34,41
4,70	80	21	4,50	34,41
4,80	86	23	5,00	34,41
4,90	86	23	5,00	34,41
5,00	86	23	5,00	25,88
5,10	86	23	5,00	36,97
5,20	86	23	5,00	36,97
5,30	86	23	5,00	36,97
5,40	93	26	5,60	36,97
5,50	93	26	5,60	25,88
5,60	93	26	5,60	39,76
5,70	93	26	5,60	39,76
5,80	93	26	5,60	39,76
5,90	93	26	5,60	39,76
6,00	93	26	5,60	25,90
6,10	101	28	6,30	40,52
6,20	101	28	6,30	40,52
6,30	101	28	6,30	40,52
6,40	101	28	6,30	40,52
6,50	101	28	6,30	33,30
6,60	101	28	6,30	40,52
6,70	101	28	6,30	40,52
6,80	109	31	7,10	40,52
6,90	109	31	7,10	40,52
7,00	109	31	7,10	29,52
7,10	109	31	7,10	43,55
7,20	109	31	7,10	43,55
7,30	109	31	7,10	43,55
7,40	109	31	7,10	43,55
7,50	109	31	7,10	34,33
7,60	117	33	8,00	43,84
7,70	117	33	8,00	43,84
7,80	117	33	8,00	43,84
7,90	117	33	8,00	43,84
8,00	117	33	8,00	33,28

D_1 mm	L_1 mm	L_2 mm	D_2 mm	EM3 €
8,10	117	33	8,00	48,89
8,20	117	33	8,00	48,89
8,30	117	33	8,00	48,89
8,40	117	33	8,00	48,89
8,50	117	33	8,00	35,78
8,60	117	33	9,00	53,89
8,70	125	36	9,00	53,89
8,80	125	36	9,00	53,89
8,90	125	36	9,00	53,89
9,00	125	36	9,00	37,88
9,10	125	36	9,00	53,89
9,20	125	36	9,00	53,89
9,30	125	36	9,00	53,89
9,40	125	36	9,00	53,89
9,50	125	36	9,00	44,98
9,60	125	36	10,00	54,21
9,70	133	38	10,00	54,21
9,80	133	38	10,00	54,21
9,90	133	38	10,00	54,21
10,00	133	38	10,00	38,32
10,50	133	38	10,00	66,54
11,00	142	41	10,00	45,30
11,50	142	41	10,00	88,28
12,00	151	44	10,00	46,31
12,50	151	44	10,00	90,43
13,00	151	44	10,00	66,17
13,50	151	44	12,50	122,93
14,00	160	47	12,50	67,74
15,00	160	47	12,50	69,08
16,00	162	50	12,50	73,98
17,00	170	52	14,00	85,30
18,00	175	54	14,00	97,85
19,00	182	56	16,00	103,95
20,00	189	58	16,00	104,70
21,00	195	60	18,00	159,59
22,00	225	60	18,00	161,08
23,00	230	60	18,00	175,19
24,00	240	60	20,00	197,72
25,00	245	60	20,00	224,05

CENTESIMALI

D1 mm	EM3 €
2,37 - 2,65	58,38
2,66 - 3,35	54,04
3,36 - 4,25	60,68
4,26 - 5,30	60,68
5,31 - 5,95	60,78
5,96 - 6,70	61,36
6,71 - 7,29	67,58
7,30 - 8,50	75,98
8,51 - 9,25	85,76
9,26 - 10,60	97,90
10,61 - 11,25	110,58
11,26 - 12,02	113,51
12,03 - 13,02	156,12
13,03 - 14,02	189,86
14,03 - 15,02	231,47
15,03 - 16,02	247,80

TOLLERANZA STRETTA PER ALESATORI CENTESIMALI (in µ m)

1,00-6	6,01-12
+4	+5
+0	+0

ALESATORI CILINDRICI A MACCHINA

SERIE LUNGA HSSCO

Ref. EM44 | DIN 212L | HSSCo | TOL H7 | 8°



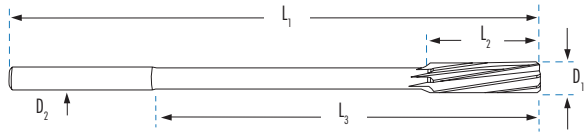
EM44

	D_1 mm	D_2 mm	L_1 mm	L_2 mm	L_3 mm	€
EM440150	1,50	1,50	55	12	35	**149,23**
EM440200	2,00	2,00	65	14	45	**118,05**
EM440250	2,50	2,50	75	14	55	**134,79**
EM440300	3,00	3,00	90	14	70	**103,02**
EM440350	3,50	3,50	90	14	70	**153,09**
EM440400	4,00	4,00	105	16	80	**103,02**
EM440450	4,50	4,50	105	16	80	**158,85**
EM440500	5,00	5,00	115	16	90	**108,79**
EM440550	5,50	5,50	115	16	90	**168,49**
EM440600	6,00	6,00	130	16	100	**112,63**
EM440650	6,50	6,00	130	16	100	**174,26**
EM440700	7,00	7,00	140	18	110	**121,29**
EM440750	7,50	7,00	140	18	110	**178,10**
EM440800	8,00	8,00	160	18	130	**117,44**
EM440850	8,50	8,00	160	18	130	**180,03**
EM440900	9,00	9,00	175	18	140	**132,85**
EM440950	9,50	9,00	175	18	140	**188,70**
EM441000	10,00	10,00	190	20	150	**134,79**
EM441100	11,00	11,00	200	20	160	**157,90**
EM441200	12,00	12,00	210	20	160	**149,23**

SERIE EXTRA LUNGA HSSCO

Ref. EM33 | DIN 212XL | HSSCo | TOL H7 | 8°





EM33

	D_1 mm	D_2 mm	L_1 mm	L_2 mm	L_3 mm	HSSCo €
EM330200	2,0	2,0	90	11	70	**142,76**
EM330300	3,0	3,0	120	15	100	**142,76**
EM330400	4,0	4,0	140	19	115	**150,53**
EM330500	5,0	5,0	170	23	140	**153,60**
EM330600	6,0	5,6	200	26	175	**156,48**
EM330700	7,0	7,0	250	35	220	**189,94**
EM330800	8,0	8,0	250	33	220	**222,72**
EM330900	9,0	9,0	250	35	220	**212,45**
EM331000	10,0	10,0	250	38	220	**244,65**
EM331200	12,0	10,0	250	44	220	**294,10**

METALLO DURO INTEGRALE DIN 8093

Ref. EM35 | DIN 8093B | MDI | TOL H7 | 8°



EM35

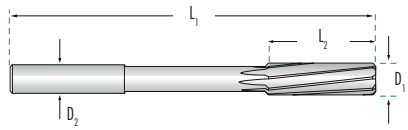
	D_1 mm	D_2 mm	L_1 mm	L_2 mm	€
EM350200	2,00	2,00	49	11	**67,10**
EM350250	2,50	2,50	57	14	**77,17**
EM350300	3,00	3,00	61	15	**73,25**
EM350350	3,50	3,50	70	18	**90,16**
EM350400	4,00	4,00	75	19	**85,50**
EM350450	4,50	4,50	80	21	**98,28**
EM350500	5,00	5,00	86	23	**90,55**
EM350550	5,50	5,50	93	26	**110,05**
EM350600	6,00	6,00	93	26	**108,92**
EM350650	6,50	6,00	101	28	**133,58**
EM350700	7,00	7,00	109	31	**140,79**
EM350750	7,50	7,00	109	31	**154,87**
EM350800	8,00	8,00	117	33	**160,89**
EM350850	8,50	8,00	117	33	**185,03**
EM350900	9,00	9,00	125	36	**184,37**
EM350950	9,50	9,00	125	36	**206,50**
EM351000	10,00	10,00	133	38	**204,46**
EM351050	10,50	10,00	133	38	**228,98**
EM351100	11,00	10,00	142	41	**305,04**
EM351150	11,50	12,00	142	41	**335,53**
EM351200	12,00	12,00	151	44	**321,88**

Misure speciali su richiesta.

HSSCo DIN 212

Ref. EM10 | DIN 212E | HSSCo | GAMMON





EM10

	D_1 mm	D_2 mm	L_1 mm	L_2 mm	€
EM100300	3,00	3,00	61	15	**29,52**
EM100400	4,00	4,00	75	19	**35,72**
EM100500	5,00	5,00	86	23	**36,38**
EM100600	6,00	5,60	93	26	**36,38**
EM100700	7,00	7,10	109	31	**37,03**
EM100800	8,00	8,00	117	33	**40,69**
EM100900	9,00	9,00	125	36	**48,49**
EM101000	10,00	10,00	133	38	**50,00**
EM101100	11,00	10,00	142	41	**58,21**
EM101200	12,00	10,00	151	44	**62,07**
EM101300	13,00	10,00	151	44	**85,58**
EM101400	14,00	12,50	160	47	**98,17**
EM101500	15,00	12,50	160	47	**102,13**
EM101600	16,00	12,50	162	50	**119,52**
EM101700	17,00	14,00	170	52	**143,53**
EM101800	18,00	14,00	175	54	**157,51**

ALESATORI CONICI A MACCHINA HSSCo DIN 208

DIN 208

GAMMON

Ref. EM7

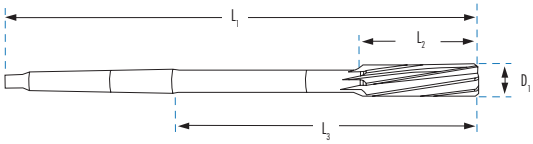


DIN 208B

Ref. EM9



DIN 208C

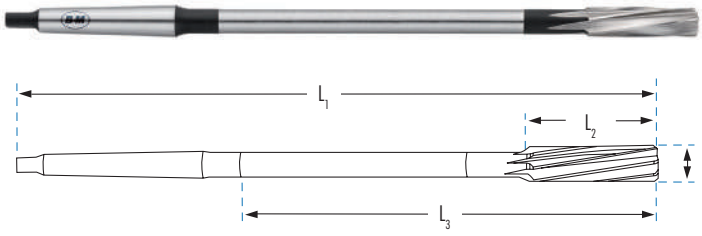


					EM7	EM9
				MATERIALE	HSSCo	HSSCo
				NORMA	DIN 208B	DIN 208C
				TOLLERANZA	TOL H7	TOL H7
				ELICA	10°	38°
D1 mm	L2 mm	L3 mm	L1 mm	CM	€	€
4,00	19	58	129	1	61,52	
5,00	23	62	133	1	42,02	85,37
5,50	26	67	138	1	62,61	
6,00	26	67	138	1	39,51	85,37
6,50	28	73	144	1	63,84	
7,00	31	79	150	1	40,42	85,37
7,50	31	79	150	1	65,30	
8,00	33	85	156	1	41,76	85,37
8,50	33	85	156	1	69,25	
9,00	36	91	162	1	43,20	82,29
9,50	36	91	162	1	75,08	
10,00	38	97	168	1	43,62	82,29
10,50	38	97	168	1	76,04	
11,00	41	104	175	1	44,43	85,92
11,50	41	104	175	1	80,14	
12,00	44	111	182	1	44,43	85,92
12,50	44	111	182	1	87,51	
13,00	44	111	182	1	49,44	127,79
13,50	47	118	189	1	90,10	
14,00	47	118	189	1	50,22	131,78
14,50	50	118	204	2	94,86	
15,00	50	118	204	2	60,22	144,28
15,50	52	124	210	2	99,71	
16,00	52	124	210	2	65,55	151,20
16,50	54	128	214	2	110,77	
17,00	54	128	214	2	69,08	163,71
17,50	56	133	219	2	124,02	

D1 mm	L2 mm	L3 mm	L1 mm	CM	EM7 €	EM9 €
18,00	56	133	219	2	76,52	173,88
18,50	58	137	223	2	132,33	
19,00	58	137	223	2	78,60	184,45
19,50	60	142	228	2	141,15	
20,00	60	142	228	2	87,65	193,99
20,50	62	146	232	2	146,82	
21,00	62	146	232	2	90,03	209,58
21,50	64	151	237	2	190,30	
22,00	64	151	237	2	95,06	223,74
22,50	66	155	241	2	190,30	
23,00	66	155	241	2	96,47	239,84
23,50	66	163	241	3	221,09	
24,00	68	163	268	3	121,91	252,98
24,50	68	163	268	3	228,47	
25,00	68	163	268	3	123,33	268,58
25,50	70	168	273	3	266,43	
26,00	70	168	273	3	133,68	283,47
26,50	70	168	273	3	282,23	
27,00	71	172	277	3	160,39	382,15
28,00	71	172	277	3	158,07	313,35
29,00	73	176	281	3	186,29	377,16
30,00	73	176	281	3	168,35	285,28
31,00	75	180	285	3	230,18	
32,00	77	187	317	4	200,80	439,38
33,00	77	187	317	4	397,44	
34,00	78	191	321	4	271,97	661,18
35,00	78	191	321	4	288,00	
36,00	79	195	325	4	324,47	759,03
37,00	79	195	325	4	547,33	
38,00	81	199	329	4	345,49	863,34
39,00	81	199	329	4	732,66	
40,00	81	199	329	4	394,46	912,70
41,00	82	203	333	4	439,59	
42,00	82	203	333	4	464,86	
44,00	83	206	336	4	505,43	
45,00	83	206	336	4	505,79	
48,00	86	214	344	4	535,86	
50,00	86	214	344	4	569,48	

ALESATORE CONICO ELICOIDALE SERIE LUNGA HSSCo

Ref. EM41 | DIN 208B/L | HSSCo | TOL H7

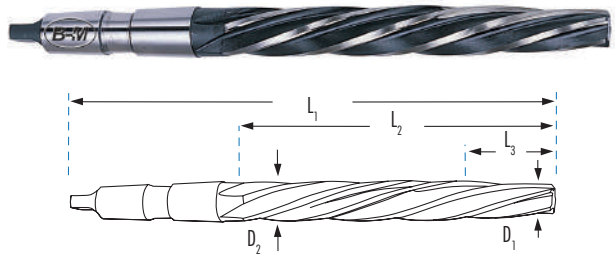


EM41

	D1 mm	L2 mm	L3 mm	L1 mm	CM	€
EM411300	13	22	180	245	1	195,30
EM411400	14	22	180	245	1	195,30
EM411500	15	25	180	260	2	206,28
EM411600	16	25	180	260	2	230,41
EM411800	18	28	180	260	2	239,20
EM412000	20	28	190	270	2	258,94
EM412200	22	32	200	280	2	291,86
EM412400	24	32	200	300	3	381,83
EM412500	25	32	220	320	3	463,03
EM412600	26	32	230	330	3	544,22
EM412800	28	36	240	340	3	548,61
EM413000	30	36	250	350	3	559,59
EM413200	32	36	250	375	4	647,37
EM413400	34	40	250	375	4	752,69
EM413600	36	40	250	375	4	800,96
EM413800	38	40	270	395	4	860,20
EM414000	40	40	270	395	4	908,49
EM414200	42	40	280	405	4	958,96
EM414500	45	45	280	405	4	1.125,76
EM415000	50	45	290	415	4	1.353,96

ALESATORE CONICO DA CALDARERIA HSS DIN 311

Ref. EM8 | DIN 311 | HSS | TOL H7 | PER CALDARERIA | Conicità di 1:10 in L3



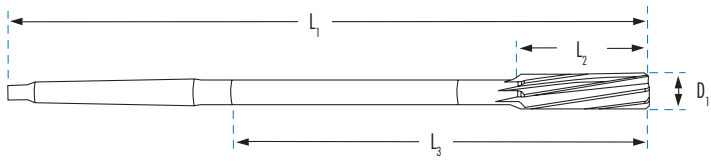
EM8

	D2 mm	D1 mm	L1 mm	L2 mm	L3 mm	CM	€
EM81000	10,00	6,6	171	95	38	1	60,09
EM81100	11,00	7,0	176	100	40	1	61,73
EM81200	12,00	7,8	199	105	42	2	65,87
EM81300	13,00	8,8	199	105	42	2	71,70
EM81400	14,00	9,4	209	115	46	2	78,97
EM81500	15,00	10,0	219	125	50	2	83,00
EM81600	16,00	10,6	229	135	54	2	87,12
EM81700	17,00	11,6	251	135	54	3	109,23
EM81800	18,00	12,2	261	145	58	3	116,42
EM81900	19,00	13,2	261	145	58	3	129,04
EM82000	20,00	13,8	271	155	62	3	131,40
EM82100	21,00	14,8	271	155	62	3	144,56
EM82200	22,00	15,4	281	165	66	3	150,88
EM82300	23,00	16,4	281	165	66	3	161,78
EM82400	24,00	16,8	296	180	72	3	173,07
EM82500	25,00	17,8	296	180	72	3	184,47
EM82600	26,00	18,8	296	180	72	3	201,46
EM82700	27,00	19,2	311	195	78	3	216,24
EM82800	28,00	20,2	311	195	78	3	236,21
EM82900	29,00	21,2	311	195	78	3	253,56
EM83000	30,00	22,2	311	195	78	3	254,03
EM83100	31,00	23,2	326	210	78	3	258,28
EM83200	32,00	23,6	354	210	84	4	281,17
EM83300	33,00	24,6	354	210	84	4	375,30
EM83400	34,00	25,6	364	220	88	4	436,58
EM83600	36,00	27,2	364	220	88	4	484,62

ALESATORE CONICO ELICOIDALE SERIE EXTRA LUNGA

Ref. EM42 | DIN 208B/XL | HSSCo | TOL H7





EM42

	D1 mm	L2 mm	L3 mm	L1 mm	CM	€
EM421200	12	40	250	315	1	325,79
EM421400	14	40	250	315	1	355,95
EM421600	16	45	270	350	2	372,04
EM421800	18	45	270	350	2	402,70
EM422000	20	45	270	350	2	426,34
EM422200	22	45	270	350	2	573,14
EM422400	24	70	350	450	3	653,60
EM422500	25	70	350	450	3	693,80
EM422600	26	70	350	450	3	804,42
EM422800	28	70	350	450	3	884,85
EM423000	30	70	350	450	3	955,24
EM423500	35	70	350	475	4	1.206,62
EM424000	40	70	350	475	4	1.407,73

PUNTA ALESATRICE IN METALLO DURO A 3 TAGLIENTI

Ref. BC45

3Z

DIN 1897

MD

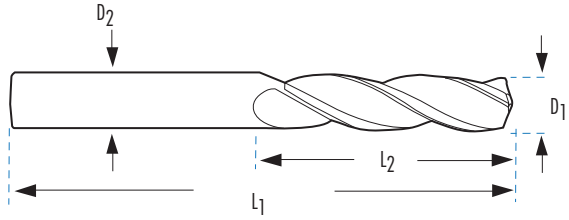
150°

30° "N"

TOL H8

ALTA PRODUZIONE







	D1 mm	D2 mm	L1 mm	L2 mm	BC45 €
BC450350	3,5	3,5	52	20	30,56 *
BC450400	4,0	4,0	55	22	36,33 *
BC450500	5,0	5,0	62	26	32,19 *
BC450550	5,5	5,5	66	28	44,83 *
BC450600	6,0	6,0	66	28	35,51 *
BC450650	6,5	6,5	70	31	62,07 *
BC450700	7,0	7,0	74	34	50,08 *
BC450800	8,0	8,0	79	37	58,81 *
BC450850	8,5	8,5	79	37	62,32 *
BC450900	9,0	9,0	84	40	91,94 *
BC451050	10,5	10,5	89	43	95,48 *
BC451100	11,0	11,0	95	47	109,80 *
BC451150	11,5	11,5	95	47	113,85 *
BC451350	13,5	13,5	104	54	234,84 *
BC451400	14,0	14,0	107	54	176,13 *
BC451450	14,5	14,5	111	56	266,73 *
BC451500	15,0	15,0	111	56	208,45 *
BC451550	15,5	15,5	115	58	376,89 *
BC451600	16,0	16,0	115	58	257,16 *
BC451650	16,5	16,5	119	60	353,51 *
BC451700	17,0	17,0	119	60	363,74 *
BC451750	17,5	17,5	123	62	372,17 *
BC451800	18,0	18,0	123	62	405,82 *
BC451850	18,5	18,5	127	64	442,28 *
BC451900	19,0	19,0	127	64	450,55 *
BC451950	19,5	19,5	131	66	484,28 *
BC452000	20,0	20,0	131	66	518,01 *

*Fino ad esaurimento scorte.

PUNTE ALESATRICI

CODOLO CILINDRICO

3Z

DIN 344

HSS

TOL H8

Ref. EM22

CODOLO CONICO

3Z

DIN 343

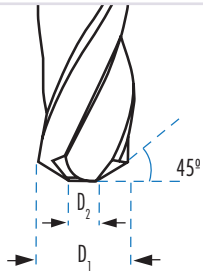
HSS

TOL H8

Ref. EM23

APPLICAZIONI: Particolarmente indicate per allargare fori e compensare i fori non concentrici.

Si ottiene una precisione superiore a quella delle punte convenzionali, le quali non sono raccomandate per allargare fori, siccome si spuntano a causa degli spigoli da taglio.









EM22

	D1 mm	D2 mm	L1 mm	L2 mm	€
EM220500	5,00	3,00	108	74	39,54
EM220600	6,00	4,00	116	80	39,54
EM220700	7,00	5,00	133	93	39,54
EM220800	8,00	5,60	142	100	41,70
EM220900	9,00	6,30	151	107	48,75
EM221000	10,00	7,00	162	116	50,92
EM221100	11,00	7,70	173	125	56,15
EM221200	12,00	8,40	184	134	60,27
EM221300	13,00	9,10	184	134	76,85
EM221400	14,00	9,80	194	142	82,14
EM221500	15,00	10,50	202	147	89,68
EM221600	16,00	11,20	211	153	96,31

EM23

	D_1 mm	D_2 mm	L_1 mm	L_2 mm	CM	€
EM230900	9,00	6,30	162	81	1	92,51
EM231000	10,00	7,00	168	87	1	83,59
EM231100	11,00	7,70	175	94	1	86,46
EM231200	12,00	8,40	182	101	1	90,35
EM231300	13,00	9,10	182	101	1	94,35
EM231400	14,00	9,80	189	108	1	99,03
EM231500	15,00	10,50	212	114	2	99,98
EM231600	16,00	11,20	218	120	2	113,64
EM231700	17,00	11,90	223	125	2	121,35
EM231800	18,00	12,60	228	130	2	131,73
EM231900	19,00	13,30	233	135	2	155,00
EM232000	20,00	14,00	238	140	2	158,75
EM232100	21,00	15,00	243	145	2	174,27
EM232200	22,00	15,50	248	150	2	184,89
EM232300	23,00	16,00	253	155	2	190,78
EM232400	24,00	17,00	281	160	3	201,59
EM232500	25,00	17,50	281	160	3	216,65
EM232600	26,00	18,00	286	165	3	232,79
EM232700	27,00	19,00	291	170	3	261,85
EM232800	28,00	19,50	291	170	3	296,93
EM233000	30,00	21,00	296	175	3	328,66
EM233200	32,00	22,00	334	185	4	413,23
EM233400	34,00	24,00	339	190	4	457,35
EM233500	35,00	25,00	339	190	4	476,56
EM233600	36,00	25,50	344	195	4	505,24
EM233800	38,00	26,50	349	200	4	565,85
EM234000	40,00	28,00	349	200	4	610,58
EM234500	45,00	31,00	359	210	4	730,50
EM235000	50,00	34,50	369	220	4	995,94

ALESATORI A MACCHINA, MANICOTTO HSSCo

DIN 219



Ref. EM17



Ref. EM18

GAMMON

					EM17		EM18
				MATERIALE	HSSCo		HSSCo
				NORMA	DIN 219B		DIN 219C
				TOLLERANZA	TOL H7		TOL H7
				ELICA	10°		38°
D_1 mm	D_2 mm	L_1 mm	L_2 mm		€		€
25,00	**13,00**	**45**	**32**	EM172500	**122,32**	EM182500	**232,89**
26,00	13,00	45	32	EM172600	**123,36**	EM182600	**235,47**
27,00	13,00	45	32	EM172700	**126,37**	EM182700	**241,80**
28,00	13,00	45	32	EM172800	**134,77**	EM182800	**246,77**
30,00	**13,00**	**45**	**32**	EM173000	**107,91**	EM183000	**253,69**
32,00	16,00	50	36	EM173200	**114,10**	EM183200	**262,00**
34,00	16,00	50	36	EM173400	**127,75**	EM183400	**270,62**
35,00	**16,00**	**50**	**36**	EM173500	**130,73**	EM183500	**296,83**
36,00	19,00	56	40	EM173600	**133,22**	EM183600	**310,03**
38,00	19,00	56	40	EM173800	**141,26**	EM183800	**327,08**
40,00	**19,00**	**56**	**40**	EM174000	**149,67**	EM184000	**387,02**
42,00	19,00	56	40	EM174200	**157,90**		
45,00	**22,00**	**63**	**45**	EM174500	**167,64**	EM184500	**425,68**
47,00	22,00	63	45	EM174700	**240,75**	EM184700	**497,07**
48,00	22,00	63	45	EM174800	**204,64**		
50,00	**22,00**	**63**	**45**	EM175000	**212,05**		
52,00	27,00	71	50	EM175200	**223,26**	EM185200	**557,85**
55,00	**27,00**	**71**	**50**	EM175500	**242,23**	EM185500	**621,19**
58,00	27,00	71	50	EM175800	**273,61**		
60,00	**27,00**	**71**	**50**	EM176000	**353,90**	EM186000	**691,96**
62,00	32,00	80	56	EM176200	**429,45**	EM186200	**743,52**
65,00	32,00	80	56	EM176500	**465,94**	EM186500	**755,54**
70,00	**32,00**	**80**	**56**	EM177000	**555,85**	EM187000	**774,19**
72,00	40,00	90	63	EM177200	**587,35**	EM187200	**821,07**
75,00	40,00	90	63	EM177500	**643,13**		
80,00	**40,00**	**90**	**63**	EM178000	**700,43**	EM188000	**972,42**
85,00	40,00	90	63	EM178500	**771,02**		
90,00	**50,00**	**100**	**71**	EM179000	**840,29**		
95,00	50,00	100	71	EM179500	**964,11**		
100,00	**50,00**	**100**	**71**	EM1710000	**1.099,47**		

CODOLO PER ALESATORI A MANICOTTO A MACCHINA

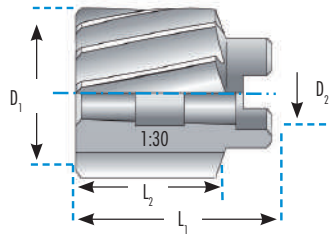
DIN 217



Ref. EM19

				EM19
	D_2 mm	L_1 mm	CM	€
EM19CM313X300	**13,00**	**300**	**3**	**207,08**
EM19CM316X300	16,00	300	3	**230,41**
EM19CM419X300	19,00	300	4	**273,38**
EM19CM419X400	19,00	400	4	**386,32** *
EM19CM419X500	**19,00**	**500**	**4**	**432,45** *
EM19CM422X300	22,00	300	4	**342,35**
EM19CM422X400	22,00	400	4	**428,34** *
EM19CM422X500	22,00	500	4	**480,77** *
EM19CM422X600	22,00	600	4	**509,15** *
EM19CM527X350	27,00	350	5	**488,24**
EM19CM527X450	27,00	450	5	**570,12** *
EM19CM527X550	27,00	550	5	**658,76** *
EM19CM527X650	27,00	650	5	**705,22** *
EM19CM532X350	**32,00**	**350**	**5**	**600,27**
EM19CM532X400	32,00	400	5	**723,06** *
EM19CM532X500	32,00	500	5	**768,36** *
EM19CM532X600	32,00	600	5	**844,78** *
EM19CM540X450	40,00	450	5	**851,81**
EM19CM540X550	40,00	550	5	**907,52** *
EM19CM540X650	40,00	650	5	**947,41** *
EM19CM540X750	40,00	750	5	**1.020,42** *
EM19CM540X850	40,00	850	5	**1.075,28** *
EM19CM540X950	40,00	950	5	**1.152,48** *
EM19CM550X450	50,00	450	5	**1.100,78**
EM19CM550X550	50,00	550	5	**1.088,56** *
EM19CM550X650	50,00	650	5	**1.136,63** *
EM19CM550X750	50,00	750	5	**1.191,02** *
EM19CM550X850	50,00	850	5	**1.271,18** *
EM19CM550X950	50,00	950	5	**1.309,89**

*Fino ad esaurimento scorte.



ALESATORE A 5 CANALI HSS

Ref. EM14

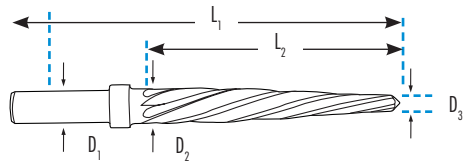
5Z

HSS

10% 1:10

25°





	D2 mm	Ø mm min. x max.	D1 mm	D3 mm	L1 mm	L2 mm	EM14 €
EM141000	**10,00**	6,00 - 10,00	9,50	5,20	127	76	**164,58**
EM141200	**12,00**	7,00 - 12,00	12,70	5,60	152	102	**180,98**
EM141400	**14,00**	9,00 - 14,00	12,70	7,80	152	102	**191,94**
EM141800	**18,00**	10,00 - 18,00	12,70	9,20	178	125	**235,84**
EM142200	**22,00**	14,00 - 22,00	12,70	13,00	184	132	**279,70**
EM142600	**26,00**	18,00 - 26,00	12,70	17,20	184	132	**301,68**

ALESATORI CONICI PER STAMPI HSSCO ELICA 45º

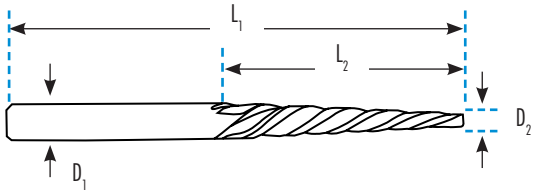
Ref. EM30
Ref. EM31
Ref. EM32

HSSCo

45°

D2 TOL ±0,05 | D1 TOL h8 | L1 TOL ±1 | L2 TOL ±2

PER STAMPI





5% 1:20

D1 mm	D2 mm	L1 mm	L2 mm	EM30 €
6,00	3,00	110	60	**140,30**
8,00	4,00	130	80	**193,38**
10,00	5,00	155	100	**229,59**
12,00	6,00	180	120	**280,61**
14,00	7,00	200	140	**357,67**

8% 2:25

D1 mm	D2 mm	L1 mm	L2 mm	EM31 €
8,00	3,00	110	62	**140,30**
10,00	4,00	130	75	**183,70**
12,00	5,00	150	90	**212,77**
14,00	6,00	160	100	**309,66**

10% 1:10

D1 mm	D2 mm	L1 mm	L2 mm	EM32 €
8,00	3,00	100	50	**133,12**
10,00	4,00	115	60	**140,30**
12,00	5,00	130	70	**171,91**
14,00	6,00	140	80	**297,45**

ALESATORI REGOLABILI

CON GUIDA HSS



TOL H11	Ø mm	Ø mm min. x max.	EM4G ALESATORE €	EM4-6C LAME €	EM4-6T BULLONI €
EM4G0800	8,00	8,00 - 9,00	135,35*	77,40*	3,98*
EM4G0900	9,00	9,00 - 10,00	138,38*	87,50*	3,98*
EM4G1000	10,00	10,00 - 11,00	138,38*	88,35*	3,98*
EM4G1200	12,00	12,00 - 13,50	145,78*	88,42*	4,19*

*Fino ad esaurimento scorte.

TIPO RINFORZATO HSS



TOL H11	Ø mm	Ø mm min. x max.	EM6 ALESATORE €	EM4-6C LAME €	EM4-6T BULLONI €
EM60640	6,40	6,40 - 7,20	136,02*		
EM60720	7,20	7,20 - 8,00	136,02*		
EM60800	8,00	8,00 - 9,00	136,02*	77,40*	3,98*
EM60900	9,00	9,00 - 10,00	136,02*	87,50*	3,98*
EM61000	10,00	10,00 - 11,00	136,02*	88,35*	3,98*
EM61100	11,00	11,00 - 12,00	136,02*	88,35*	3,60*
EM61200	12,00	12,00 - 13,50	136,02*	88,42*	4,19*
EM61350	13,50	13,50 - 15,50	136,02*	88,42*	4,19*
EM61550	15,50	15,50 - 18,00	144,75*	92,63*	4,65*
EM61800	18,00	18,00 - 21,00	149,85*	95,84*	4,21*
EM62100	21,00	21,00 - 24,00	174,35*	110,30*	4,65*
EM62400	24,00	24,00 - 27,50	189,82*	116,13*	4,87*
EM62750	27,50	27,50 - 31,50	207,56*	127,73*	5,09*
EM63150	31,50	31,50 - 37,00	270,57*	157,13*	5,09*
EM63700	37,00	37,00 - 45,00	403,45*	243,17*	5,09*
EM64500	45,00	45,00 - 55,00	580,53*	374,00*	5,40*
EM65500	55,00	55,00 - 67,00	1.065,45*	578,72*	5,40*
EM66700	67,00	67,00 - 80,00	1.635,07*	879,30*	5,40*

*Fino ad esaurimento scorte.

TABELLA DI FACILE CONSULTAZIONE DEI PARAMETRI DI TAGLIO E AVANZAMENTO PER ALESATORI

	V/C m/min		DIAMETRO Ø (mm) 2	3	5	7	10	12	15	18	20	22	25	30
ACCIAIO DOLCE EM3	V/C 12 m / min	RPM	1911	1274	764	546	382	318	255	212	191	174	153	127
		mm / giro	0,10	0,10	0,11	0,12	0,15	0,18	0,20	0,22	0,23	0,24	0,25	0,29
		S (mm / min)	191	127	84	66	57	56	51	47	44	42	38	37
ACCIAIO TRATTATO EM3+TiAlN	V/C 7 m / min	RPM	1115	743	446	318	223	186	149	124	111	101	89	74
		mm / giro	0,08	0,080	0,08	0,09	0,10	0,11	0,12	0,15	0,20	0,21	0,22	0,26
		S (mm / min)	89	59	36	29	22	20	18	19	22	21	20	19
INOX EM3+TiN	V/C 5 m / min	RPM	796	531	318	227	159	133	106	88	80	72	64	53
		mm / giro	0,08	0,08	0,09	0,10	0,10	0,12	0,14	0,16	0,18	0,20	0,21	0,24
		S (mm / min)	64	42	29	23	16	16	15	14	14	14	13	13
ALLUMINIO EM3	V/C 37 m / min	RPM	5892	3928	2357	1683	1178	982	786	655	589	536	471	393
		mm / giro	0,15	0,16	0,18	0,20	0,21	0,23	0,25	0,28	0,29	0,30	0,35	0,38
		S (mm / min)	884	628	424	337	247	226	196	183	171	161	165	149
GHISA EM3+TiCN	V/C 9 m / min	RPM	1433	955	573	409	287	239	191	159	143	130	115	96
		mm / giro	0,15	0,16	0,18	0,18	0,20	0,22	0,24	0,26	0,28	0,29	0,30	0,33
		S (mm / min)	215	153	103	74	57	53	46	41	40	38	34	32
OTTONE EM3	V/C 17 m / min	RPM	2707	1805	1083	773	541	451	361	301	271	246	217	180
		mm / giro	0,10	0,12	0,14	0,18	0,20	0,25	0,28	0,28	0,30	0,30	0,35	0,41
		S (mm / min)	271	217	152	139	108	113	101	84	81	74	76	74

OSSERVAZIONI:

- Conosciuti il diametro dell'alesatore e il materiale da alesare, la velocità e l'avanzamento si identificano velocemente.
  esempio:
  Materiale: Acciaio dolce → RPM=382 RPM
  Ø dell'alesatore 10 mm → S=57 mm/min
- Prima di realizzare i primi fori è necessario regolare sia la velocità sia l'avanzamento.

TABELLA DI FACILE CONSULTAZIONE DELLA PERFORAZIONE PRECEDENTE ALL'ALESATURA

	Ø DELLA PUNTA		
Ø DELL'ALESATURA	ACCIAI	ACCIAIO INOX	ALLUMINIO
1<Ø<10 mm	Ø finale - 0,2 mm	Ø finale - 0,2 mm	Ø finale - 0,3 mm
11<Ø<20 mm	Ø finale - 0,3 mm	Ø finale - 0,3 mm	Ø finale - 0,4 mm
21<Ø<30 mm	Ø finale - 0,4 mm	Ø finale - 0,4 mm	Ø finale - 0,45 mm
Ø>30 mm	Ø finale - 0,5 mm	Ø finale - 0,5 mm	Ø finale - 0,6 mm

- Per altri materiali, utilizzare come riferimento i diametri corrispondenti all'acciaio.

BLUE-MASTER® by celesa



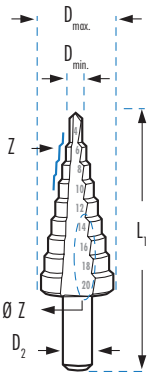
SVASATORI

PUNTE A GRADINO A CANALI DRITTI HSS

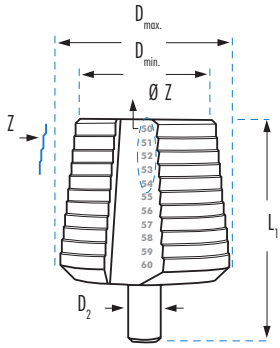
HSS Ø ≥ 3 Ref. AV40













BM1 **BM2** **BM3** **BM4** **BM5** Ref. AV40BM25 / 26 / 27 / 28 / 29

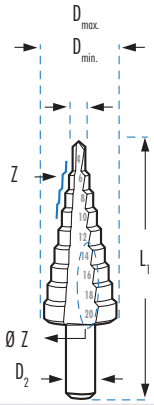
	D min. mm	D max. mm	D2 mm	L1 mm	Z	Ø Z mm minore-maggiore	AV40 HSS €	AV40 TiN €
AV40BM1B	4,0	12,0	6,0	65	5	4-6-8-10-12	24,14	60,88
AV40BM2B	4,0	12,0	6,0	65	9	4-5-6-7-8-9-10-11-12	25,74	65,52
AV40BM3B	4,0	20,0	8,0	69	9	4-6-8-10-12-14-16-18-20	35,01	83,65
AV40BM4B	4,0	30,0	10,0	96	14	4-6-8-10-12-14-16-18-20-22-24-26-28-30	74,03	126,27
AV40BM14	4,0	39,0	10,0	107	13	4-6-9-12-15-18-21-24-27-30-33-36-39	212,75	334,76
AV40BM16B	5,0	28,0	10,0	69	7	5-8,8-11,8-15,3-19-24,5-28	98,68	155,29
AV40BM35B	5,0	35,0	13,0	80	13	5-7-10-12-15-17-20-22-25-27-30-32-35	102,88	148,90
AV40BM11B	6,0	25,0	10,0	65	7	6-9-12-16-20-22,50-25	80,59	115,39
AV40BM10B	6,0	26,7	10,0	75	8	6-9-11,40-14-17,25-19-21,25-26,75	156,89	246,89
AV40BM17B	6,0	30,5	10,0	80	9	6-9-12,5-15,2-18,6-20,4-22,5-28,3-30,5	150,72	249,02
AV40BM12B	6,0	32,0	10,0	75	9	6-9-12-16-20-22,5-25-28,5-32	113,72	155,49
AV40BM18B	6,0	37,0	10,0	100	12	6-9-12,5-15,2-18,6-20,4-22,5-26-28,3-30,5-34-37	160,21	286,93
AV40BM5B	6,0	38,0	10,0	96	12	6-9-13-16-19-21-23-26-29-32-35-38	129,75	191,69
AV40BM13	6,0	40,0	13,0	105	16	6-11-17-23-29-30-31-32-33-34-35-36-37-38-39-40	222,46	273,33
AV40BM15B	6,5	32,5	10,0	79	9	6,50-8,50-10,50-12,50-16,50-20,50-25,50-29-32,50	131,68	184,53
AV40BM20	6,5	40,5	10,0	96	11	6,50-8,50-10,50-12,50-16,50-20,50-25,50-29 32,50-36,50-40,50	206,44	324,86
AV40BM21B	7,0	20,0	10,0	80	12	7-10-11-12-13-14-15-16-17-18-19-20	82,60	129,99
AV40BM22B	10,0	30,0	13,0	83	12	10-20-21-22-23-24-25-26-27-28-29-30	129,30	202,84
AV40BM25B	12,0	20,0	8,0	66	9	12-13-14-15-16-17-18-19-20	81,95	109,67
AV40BM26B	20,0	30,0	10,0	78	11	20-21-22-23-24-25-26-27-28-29-30	108,15	168,38
AV40BM27	30,0	40,0	10,0	78	11	30-31-32-33-34-35-36-37-38-39-40	151,39	215,42
AV40BM28	40,0	50,0	13,0	85	11	40-41-42-43-44-45-46-47-48-49-50	216,41	333,40
AV40BM29	50,0	60,0	13,0	85	11	50-51-52-53-54-55-56-57-58-59-60	301,40	374,38
PER PASSARE TUBATURE FILETTATURA GAS								
AV40BM6B	6,0	32,0	10,0	75	8	6-9-11,20(1/8)-14,50 (1/4)-18,20 (3/8)-22,30 (1/2)-27,90 (3/4)-32	118,01	161,73
PER RIVETTI CIECHI M3 - M4 - M5 - M6 E M7								
AV40BM7B	4,8	10,6	6,0	54	5	4,80-6,40-7,20-9,60-10,65	38,46	54,85
PER CONDUZIONI ELETTRICHE (VECCHIA E NUOVA NORMA)								
AV40PG21B	PG7	PG21	13,0	70	11	6,5-8,5-10,5-12,5(PG7)-15,2(PG9)-18,6(PG11) 20,4(PG13,5)-22,5(PG16)-25,5-18,3(PG21)-30,5	129,92	183,69
AV40PG29B	PG7	PG29	13,0	81	14	6,5-9-11-12,5(PG7)-15,2(PG9)-18,6(PG11)-20,4(PG13,5) 22,5(PG16)-26-28,3(PG21)-30,5-33-35-37(PG29)	167,84	235,46
AV40BM8B	8,5	32,5	10,0	70	12	8,5-10,5-12,5-14,5-16,5-18,5-20,5-23,5-25,5 28-30,5-32,5	98,50	151,44
AV40BM9B	8,5	40,5	12,0	84	16	8,5-10,5-12,5-14,5-16,5-18,5-20,5-23,5-25,5 28-30,5-32,5-34,5-36,5-38,5-40,5	140,26	226,14

PUNTE A GRADINO A CANALI DRITTI HSSCO

HSSCo INOX

Ref. AVC40







BM1 BM2 BM3 BM4 BM18

AVC40

	D min. mm	D max. mm	D2 mm	L1 mm	Z	Ø Z mm minore-maggiore	HSSCo €	TiN €
AVC40BM1B	4,0	12,0	6,0	65	5	4-6-8-10-12	37,61	65,04
AVC40BM2B	4,0	12,0	6,0	65	9	4-5-6-7-8-9-10-11-12	40,09	70,54
AVC40BM3B	4,0	20,0	8,0	69	9	4-6-8-10-12-14-16-18-20	44,53	94,40
AVC40BM4B	4,0	30,0	10,0	96	14	4-6-8-10-12-14-16-18-20-22-24-26-28-30	87,33	171,93
AVC40BM18B	6,0	37,0	10,0	100	12	6-9-12,5-15,2-18,6-20,4-22,5-26-28,3-30,5-34-37	181,46	294,21

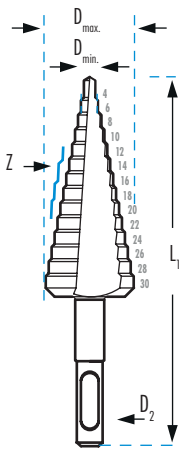
PUNTE A GRADINO A CANALI DRITTI HSS SDS-PLUS

NEW HSS SDS Plus

Ref. AV40BMSDS









BMSDS1 BMSDS2 BMSDS3 BMSDS4

AV40BMSDS

	D min. mm	D max. mm	D2 mm	L1 mm	Z	Ø Z mm minore-maggiore	HSS €	TiN €
AV40BMSDS1B	4,0	12,0	8,8	95,5	5	4-6-8-10-12	25,59	64,53
AV40BMSDS2B	4,0	12,0	8,8	95,5	9	4-5-6-7-8-9-10-11-12	27,28	69,45
AV40BMSDS3B	4,0	20,0	8,8	104,0	9	4-6-8-10-12-14-16-18-20	37,11	88,67
AV40BMSDS4B	4,0	30,0	8,8	126,0	14	4-6-8-10-12-14-16-18-20-22-24-26-28-30	78,47	133,85

PUNTE A GRADINO A CANALI ELICOIDALI HSS

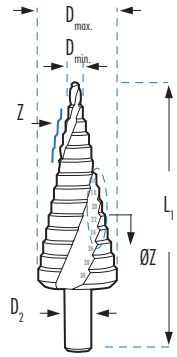
HSS

Ref. AV42





BM2 BM3 BM4



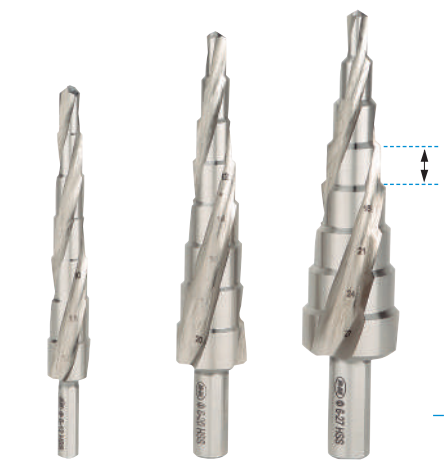
	D min. mm	D max. mm	D2 mm	L1 mm	Z	Ø Z mm minore-maggiore	AV42 HSS €	AV42 TiN €
AV42BM1B	4,0	12,0	6,0	65	5	4-6-8-10-12	34,66	53,73
AV42BM2B	4,0	12,0	6,0	68	9	4-5-6-7-8-9-10-11-12	34,28	58,96
AV42BM3B	4,0	20,0	8,0	69	9	4-6-8-10-12-14-16-18-20	45,32	75,25
AV42BM4B	4,0	30,0	10,0	96	14	4-6-8-10-12-14-16-18-20-22-24-26-28-30	80,13	122,15
AV42BM5B	6,0	38,0	10,0	96	12	6-9-13-16-19-21-23-26-29-32-35-38	167,54	230,09
AV42BM11B	6,0	25,0	10,0	65	7	6-9-12-16-20-22,50-25	84,48	122,47
AV42BM12B	6,0	32,0	10,0	75	9	6-9-12-16-20-22,5-25-28,5-32	132,49	172,85
AV42BM13	6,0	40,0	13,0	105	16	6-11-17-23-29-30-31-32-33-34-35-36-37-38-39-40	272,15	53,73
AV42BM8B	8,5	32,5	10,0	70	12	8,5-10,5-12,5-14,5-16,5-18,5-20,5-23,5 25,5-28-30,5-32,5	103,28	149,72
AV42BM9B	8,5	40,5	12,0	84	16	8,5-10,5-12,5-14,5-16,5-18,5-20,5-23,5 25,5-28-30,5-32,5-34,5-36,5-38,5-40,5	163,59	237,14

PUNTE A GRADINO A CANALI ELICOIDALI HSS MEGA SCALINATA

NEW

HSS

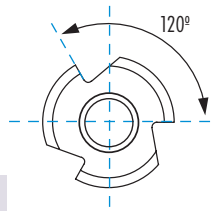
Ref. AV42BM7

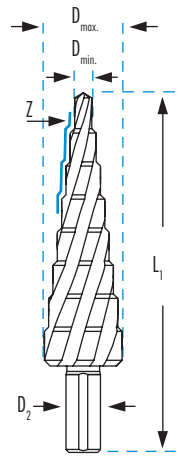


AV42BM702B AV42BM703B AV42BM704B



SCALINO 10 mm



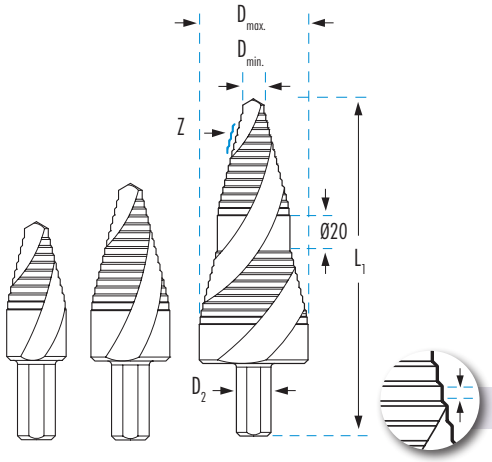


	D min. mm	D max. mm	D2 mm	L1 mm	Z	Ø Z mm minore-maggiore	AV42 HSS €	AV42 TiAlN €
AV42BM702B	6,0	12,0	6,0	105	7	6-7-8-9-10-11-12	45,95	51,05
AV42BM703B	6,0	20,0	10,0	120	8	6-8-10-12-14-16-18-20	72,11	80,12
AV42BM704B	6,0	27,0	12,0	125	8	6-9-12-15-18-21-24-27	94,88	105,42

PUNTE A GRADINO HSS

NEW
HSS

STEPCUT



SCALINO 2 mm



AV40BM37 AV40BM38 AV40BM36

	D min. mm	D max. mm	D2 mm	L1 mm	Z	Ø Z mm minore-maggiore	AV40BM HSS €	AV40BM TiN €
AV40BM37B	6,0	15,0	9,5	55	11	6-7-8-9-10-11-12-13-14-14,5-15	27,75	36,42
AV40BM38B	6,0	20,0	9,5	65	16	6-7-8-9-10-11-12-13-14-15-16-17-18-19-19,5-20	41,49	57,02
AV40BM36B	6,0	30,0	9,5	93	27	6-7-8-9-10-11-12-13-14-15-16-17-18-19-19,5-20-21-22-23-24-25-26-27-28-29-29,5-30	102,31	147,33

CODOLO ESAGONALE 1/4¨



Ref. AV41BM2B

	D min. mm	D max. mm	⬡	L1 mm	Z	Ø Z mm minore-maggiore	AV41 HSS €	AV41 TiN €
AV41BM2B	4,0	12,0	1/4"	72	9	4-5-6-7-8-9-10-11-12	34,28	58,96
AV41BM3B	4,0	20,0	1/4"	81	9	4-6-8-10-12-14-16-18-20	45,32	75,25
AV41BM4B	4,0	30,0	1/4"	105	14	4-6-8-10-12-14-16-18-20-22-24-26-28-30	80,13	122,15

SERIE CORTA Massimo 2 mm di spessore



Ref. AV41CBM3B

	D min. mm	D max. mm	D2 mm	L1 mm	Z	Ø Z mm minore-maggiore	AV41C HSS €	AV41C TiN €
AV41CBM2B	4,0	12,0	6,0	48	9	4-5-6-7-8-9-10-11-12	33,24	53,56
AV41CBM3B	4,0	20,0	8,0	58	9	4-6-8-10-12-14-16-18-20	41,28	69,22
AV41CBM4B	4,0	30,0	10,0	72	14	4-6-8-10-12-14-16-18-20-22-24-26-28-30	80,75	134,71

PUNTE A GRADINO HSS CARATTERISTICHE SPECIALI

HSS

AVVITAMENTI METRICI PER CAVI

	DIN	D min. mm	D max. mm	D2 mm	L1 mm	Z	Ø Z mm minore-maggiore	AV45 HSS €	AV45 TiN €
AV45BM0B	60423	5,3	30,5	10,0	79	9	5,3-7-9-10,5-14,5-18,5-23,5-27-30,5	188,98	243,70
AV45BM2B	60423	5,3	38,5	10,0	96	11	5,3-7-9-10,5-14,5-18,5-23,5-27 30,5-34,5-38,5	227,25	287,13



Ref. AV45BM2B3

A GRADINO DRITTA A 3 TAGLIENTI

	D min. mm	D max. mm	D2 mm	L1 mm	Z	Ø Z mm minore-maggiore	AV43 HSS €	AV43 TiN €
AV43BM1B	4,0	12,0	6,0	65	9	4-5-6-7-8-9-10-11-12	32,06	41,95
AV43BM2B	4,0	20,0	8,0	75	9	4-6-8-10-12-14-16-18-20	43,96	68,10
AV43BM3B	4,0	30,0	10,0	100	14	4-6-8-10-12-14-16-18-20-22-24-26-28-30	88,86	145,33





Ref. AV43BM3B

PUNTA A GRADINO CON PUNTA PILOTA INTERCAMBIABILE

	D min. mm	D max. mm	D2 mm	L1 mm	Z	Ø Z mm minore-maggiore	AV4 HSS €
AV4BM3040	30,0	40,0	13,0	76	11	30-31-32-33-34-35-36-37-38-39-40	173,19
AV4BM4050	40,0	50,0	13,0	76	11	40-41-42-43-44-45-46-47-48-49-50	250,17
AV4BM5060	50,0	60,0	13,0	76	11	50-51-52-53-54-55-56-57-58-59-60	317,55





Ref. AV4BM3040

PUNTA PILOTA



	DESCRIZIONE	BAV4BM €
BAV4BM	10X35mm	11,22

PUNTE A SVASARE PER TUBI E LAMIERE HSS E HSSCO

HSS **HSSCo**

Ref. AV30
Ref. AVC30

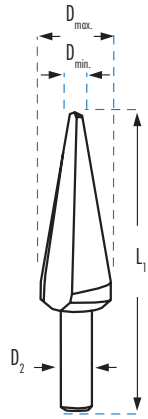






BM0 BM1 BM5 BM3 BM4 BM6

					AV30			AVC30	
D min. mm	D max. mm	D2 mm	L1 mm		HSS €	TiN €		HSSCo €	TiN €
3,0	14,0	6,0	58	AV30BM0B	**18,03**	**42,01**	AVC30BM0B	**38,91**	**50,82**
3,0	22,5	8,0	85	AV30BM8B	**54,84**	**99,37**			
3,0	31,0	10,0	102	AV30BM5B	**78,80**	**133,66**			
5,0	25,4	10,0	87	AV30BM9B	**66,08**	**126,27**			
6,0	20,0	8,0	63	AV30BM1B	**29,66**	**61,32**	AVC30BM1B	**51,60**	**78,36**
16,0	30,0	10,0	79	AV30BM2B	**52,46**	**101,46**	AVC30BM2B	**85,13**	**113,52**
26,0	40,0	13,0	86	AV30BM3B	**108,52**	**185,89**	AVC30BM3B	**172,05**	**239,05**
36,0	50,0	13,0	89	AV30BM4	**174,83**	**269,71**			
40,0	61,0	13,0	98	AV30BM6	**289,65**	**451,08**			



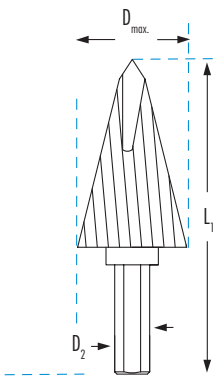
* Le referenze che terminano in B si somministrano in blister.

PUNTE A SVASARE PER LAMIERA HSS CARATTERISTICHE SPECIALI

HSS

Ref. AG

Punta a svasare per il taglio di tubi e lamiere in acciaio, leghe leggere e materie plastiche. Indicato fino a 5mm di profondità.







HSS

Ref. AV31





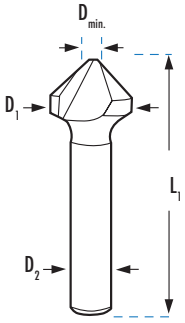
PER LAMIERE, SPECIALE PER MECCANICI, ELETTRAUTO, CARROZZIERI

					AG
	D max. mm	D2 mm	L1 mm	Nº denti	HSS €
AG2500	**25,0**	8,0	72	20	**28,42**
AG3200	**32,0**	10,0	81	30	**42,67**
AG4500	**45,0**	10,0	94	36	**70,48**

COLLARE DI ARRESTO PROFONDITÀ

					AV31	
	Dmin. mm	Dmax. mm	D2 mm	L1 mm	HSS €	TiN €
AV31BM0B	3,0	7,8	6,0	48	**33,69**	**51,00**
AV31BM1B	3,0	10,2	6,0	52	**44,24**	**69,37**
AV31BM2B	3,0	11,8	6,0	56	**49,24**	**87,00**

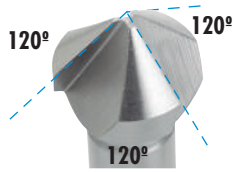
SVASATORI A 3 CANALI



DIN 335C



3Z















MATERIALE					HSS		HSS		HSS		HSSCo		HSSCo			HSS	
FINITURA							TiN		TiAlN				TiAlSiN				
APPLICAZIONE					USO GENERALE		USO GENERALE		USO GENERALE		USO GENERALE INOX		INOX Plus				
D1 mm-"	D min. mm	D2 mm	L1 mm	AV6	€	AV16	€	AV37	€	AV7	€	AV38	€	L1 mm	AV15	€
4,00	1,3	4,0	40	AV60400	11,18											
4,30	1,3	4,0	40	AV60430	11,42	AV160430	17,90	AV370430	25,78	AV70430	19,99	AV380430	24,09			
5,00	1,5	4,0	40	AV60500	11,42	AV160500	17,90	AV370500	25,78	AV70500	19,99	AV380500	24,09			
5,30	1,5	4,0	40	AV60530	11,42	AV160530	17,90	AV370530	25,78	AV70530	19,99	AV380530	24,09			
5,80	1,5	5,0	45	AV60580	10,71	AV160580	15,72	AV370580	24,19	AV70580	17,40	AV380580	20,44			
5,80	1,5	6,0	45	AV60580-6	11,22											
6,00	1,5	5,0	45	AV60600	11,22	AV160600	15,38	AV370600	24,19	AV70600	16,72	AV380600	20,19			
6,00	1,5	6,0	45	AV60600-6	11,85											
6,30	1,5	5,0	45	AV60630	11,28	AV160630	13,16	AV370630	24,19	AV70630	16,40	AV380630	20,08			
6,30	1,5	6,0	45	AV60630-6	12,25											
1/4"	1,5	6,0	45	AV6P1/4	12,62											
7,00	1,8	6,0	50	AV60700	14,09	AV160700	20,54	AV370700	32,27	AV70700	19,99	AV380700	27,15			
7,30	1,8	6,0	50	AV60730	12,90	AV160730	20,54	AV370730	32,27	AV70730	19,99	AV380730	27,15			
5/16"	2,0	6,0	50	AV6P5/16	13,34											
8,00	2,0	6,0	50	AV60800	13,15	AV160800	20,54	AV370800	32,27	AV70800	20,19	AV380800	27,23			
8,30	2,0	6,0	50	AV60830	13,23	AV160830	20,54	AV370830	32,27	AV70830	19,82	AV380830	27,93			
9,00	2,2	6,0	50	AV60900	13,65											
9,40	2,2	6,0	50	AV60940	14,38	AV160940	23,18	AV370940	36,17	AV70940	23,37	AV380940	31,80			
3/8"	2,5	6,0	50	AV6P3/8	15,71											
10,00	2,5	6,0	50	AV61000	15,34	AV161000	23,18	AV371000	36,17	AV71000	23,37	AV381000	31,80			
10,40	2,5	6,0	50	AV61040	15,83	AV161040	23,18	AV371040	36,17	AV71040	24,08	AV381040	31,71	112	AV151040	67,13
11,50	2,8	8,0	56	AV61150	16,20	AV161150	24,54	AV371150	38,89	AV71150	25,79	AV381150	34,47			
12,00	2,8	8,0	56	AV61200	17,06	AV161200	25,63	AV371200	40,83	AV71200	27,27	AV381200	34,47			
12,40	2,8	8,0	56	AV61240	16,23	AV161240	22,89	AV371240	38,89	AV71240	25,49	AV381240	34,78	112	AV151240	79,54
1/2"	2,9	8,0	56	AV6P1/2	17,36											
13,40	2,9	8,0	56	AV61340	18,98	AV161340	25,36	AV371340	40,17	AV71340	27,81	AV381340	34,99			
14,40	2,4	8,0	56	AV61440	19,31											
15,00	3,2	8,0	60	AV61500-8	20,27											
15,00	3,2	10,0	60	AV61500	19,44	AV161500	31,96	AV371500	52,93	AV71500	35,42	AV381500	40,87			
5/8"	3,2	8,0	60	AV6P5/8	20,86											
16,50	3,2	8,0	60	AV61650-8	21,74											
16,50	3,2	10,0	60	AV61650	19,88	AV161650	28,41	AV371650	54,99	AV71650	34,94	AV381650	46,61	120	AV151650	98,64
19,00	3,5	10,0	63	AV61900	28,00	AV161900	42,70	AV371900	66,74	AV71900	52,39	AV381900	56,91			
3/4"	3,5	8,0	63	AV6P3/4	30,24											
20,50	3,5	8,0	63	AV62050-8	31,16											
20,50	3,5	10,0	63	AV62050	29,41	AV162050	35,87	AV372050	68,74	AV72050	48,84	AV382050	57,64	124	AV152050	133,47
23,00	3,8	10,0	67	AV62300	40,48	AV162300	49,67	AV372300	76,92	AV72300	63,83	AV382300	66,95			
25,00	3,8	10,0	67	AV62500	38,68	AV162500	50,38	AV372500	77,73	AV72500	64,97	AV382500	67,83	128	AV152500	160,97
1"	3,8	10,0	67	AV6P1	40,54											
26,00	3,8	10,0	67	AV62600	45,58	AV162600	54,62									
28,00	4,0	12,0	71	AV62800	51,79	AV162800	64,04	AV372800	100,58	AV72800	92,79	AV382800	105,63			
30,00	4,2	12,0	71	AV63000	59,72	AV163000	66,45	AV373000	106,50	AV73000	98,14	AV383000	109,95			
31,00	4,2	12,0	71	AV63100	59,74	AV163100	70,59	AV373100	114,35	AV73100	98,14	AV383100	110,97	133	AV153100	188,56
40,00	4,5	13,0	112	AV64000	134,59	AV164000	155,05	AV374000	165,50	AV74000	143,62	AV384000	153,41			
45,00	4,5	13,0	116	AV64500	140,45											
50,00	5,0	13,0	125	AV65000	157,96											

SVASATORI
A ULTIMA GENERAZIONE

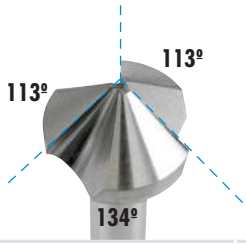
NEW

DIN 335C

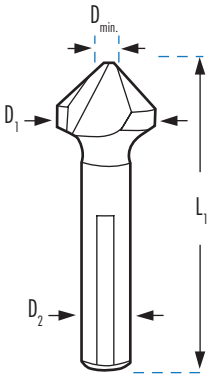








ANTIVIBRANTI



				AV66	AV67	AV99	AV55	AV6MD	AV66MD	AV55MD
			MATERIALE	HSSCo	HSSCo	HSSCo	HSSCo	MD	MD	MD
			FINITURA		TiAlN	TiAlN				
			APPLICAZIONE			INOX Superplus	HARDOX 500	ALTA PRODUZIONE		HARDOX 500
				3Z	3Z	3Z	5Z	3Z	3Z	5Z
D1 mm	D min. mm	D2 mm	L1 mm	€	€	€	€	€	€	€
4,30	1,3	4,0	40					67,74		
5,30	1,5	4,0	40					65,22		
6,00	1,5	5,0	45					67,39		
6,30	1,5	5,0	45	23,88	31,04	41,70	4Z 31,04	72,86	81,35	4Z 101,69
8,00	2,0	6,0	50			54,96		77,62		
8,30	2,0	6,0	50	24,05	31,27	56,25	4Z 31,27	82,78	92,43	4Z 115,53
10,00	2,5	6,0	50			60,36		85,56		
10,40	2,5	6,0	50	29,23	37,99	63,85	4Z 37,99	90,29	100,81	4Z 126,01
11,50	2,8	8,0	56			68,55				
12,40	2,8	8,0	56	30,94	40,22	69,41	40,22	94,15	105,12	131,40
14,40	2,4	8,0	56	37,36	48,57					
15,00	3,2	10,0	60	42,99	55,88	85,86		98,06		
16,50	3,2	10,0	60	43,42	56,44	96,83	56,44	103,11	115,13	143,91
19,00	3,5	10,0	63			109,80				
20,50	3,5	10,0	63	54,53	70,89	119,75	70,89	142,97	159,63	199,54
23,00	3,8	10,0	67			130,15				
25,00	3,8	10,0	67	78,85	102,51	140,91	102,51	233,30	260,48	325,59
31,00	4,2	12,0	71	109,57	142,44	170,32	142,44	263,25	293,92	367,40
40,00	6,5	13,0	80	216,13	280,97	324,82		457,06*		
50,00	5,0	16,0	125	355,36	461,97					

* Codolo di 16 mm

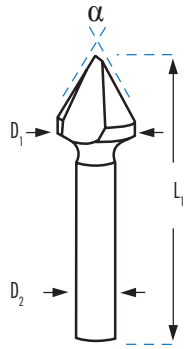
Svasatori a taglio variabile antivibranti.
Gli svasatori di nuova generazione migliorano la qualità della finitura in esercizio e ne prolungano la vita utile.
La leggera asimmetria nei tagli della svasatura aumenta le prestazioni e riduce notevolmente le vibrazioni durante il funzionamento.
La disposizione dei tagli nella svasatura contribuisce ad un'operazione di taglio progressiva, aumenta le prestazioni dell'utensile, migliorando la finitura finale, minimizzando le irregolarità.
I tre piani di trascinamento impediscono lo scivolamento, garantendo una presa salda della svasatura nel mandrino del trapano, evitando possibili slittamenti e scivolamenti durante l'uso.

HARDOX 500

Svasatura di HARDOX500 e materiali con durezza estrema.
Per gli svasatori in materiali ad alta durezza e HARDOX500, sono consigliati gli svasatori 5Z AV55 e AV55MD.
Modalità d'azione: È molto importante, in questa tipologia di materiali, che prima di iniziare a ruotare la svasatrice per iniziare il taglio, l'utensile sia già a contatto con il materiale. Successivamente inizia a ruotare ed aumenta progressivamente la velocità man mano che inizia a penetrare nel materiale. In questo modo si evita qualsiasi shock iniziale, dove è elevata la possibilità di smussamento del tagliente all'avvicinarsi dell'utensile.

SVASATORI HSS COLODO CILINDRICO 60º, 75º E 120º

3Z





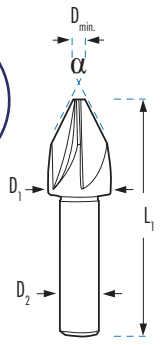




					AV8		AV9		AV10
MATERIALE					HSS		HSS		HSS
NORMA					DIN 334C		NORMA CELESA		NORMA CELESA
ANGOLO DI TAGLIO					60°		75°		120°
D1 mm	D min mm	D2 mm	L1 mm		€		€		€
6,30	1,5	5,0	45	AV80630	**21,58**	AV90630	**16,62**	AV100630	**17,69**
8,00	2,0	6,0	50	AV80800	**23,73**				
8,30	2,0	6,0	50			AV90830	**22,65**	AV100830	**24,36**
10,00	2,5	6,0	50	AV81000	**25,87**				
10,40	2,5	6,0	50			AV91040	**26,75**	AV101040	**28,48**
12,40	2,8	8,0	56	AV81250	**28,68**	AV91240	**29,56**	AV101240	**34,08**
16,50	3,2	10,0	60	AV81600	**32,49**	AV91650	**37,09**	AV101650	**43,13**
20,50	3,5	10,0	63	AV82000	**43,39**	AV92050	**54,57**	AV102050	**58,21**
25,00	3,8	10,0	67	AV82500	**57,81**	AV92500	**68,80**	AV102500	**76,45**
40,00	6,5	13,0	67	AV84000	**166,04**	AV94000	**149,70**	AV104000	**176,42**

SVASATORI MULTITAGLIO CODOLO CILINDRICO 60º, 90º E 120º

5Z





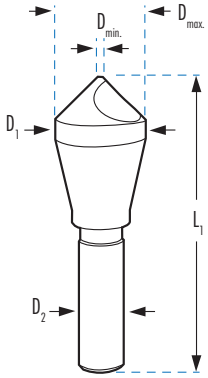




						AV12			AV11			AV13
MATERIALE						HSS			HSS			HSS
DIN						DIN 334A			DIN 335A			DIN 347A
ANGOLO DI TAGLIO						60°			90°			120°
D1 mm	D min mm	D2 mm	Nº Z		L1 mm	€		L1 mm	€		L1 mm	€
8,00	2,5	8,0	5	AV120800	48	**18,86**	AV110800	44	**14,17**	AV130800	44	**18,80**
12,50	2,8	8,0	5	AV121250	52	**26,40**	AV111250	48	**20,76**	AV131250	48	**27,58**
16,00	3,0	10,0	5	AV121600	60	**44,28**	AV111600	56	**34,88**	AV131600	56	**46,29**
20,00	3,5	10,0	5	AV122000	64	**57,11**	AV112000	60	**44,92**	AV132000	60	**59,68**
25,00	3,5	10,0	5	AV122500	69	**79,95**	AV112500	65	**62,89**	AV132500*	65	**81,19**

* D2: 12,00 mm

SVASATORI HSS E HSSCO PER SBAVARE CON FORO





					AV1		AV1T		AV2		AV2T		AV1-60	
MATERIALE					HSS		HSS		HSSCo		HSSCo		HSS	
FINITURA							TiN				TiN			
ANGOLO DI TAGLIO					90°		90°		90°		90°		60°	
D1 mm	Dmin mm	Dmax mm	D2 mm	L1 mm		€		€		€		€		€
6,35	2,0	5,0	6,35	45	AV100	**14,65**	AV100T	**26,48**	AV200	**24,92**	AV200T	**41,91**	AV100-60	**26,27**
10,00	2,0	5,0	6,00	45	AV101	**17,08**	AV101T	**26,48**	AV201	**25,73**	AV201T	**41,91**	AV101-60	**32,81**
14,00	6,0	13,0	8,00	50	AV102	**20,56**	AV102T	**35,43**	AV202	**29,97**	AV202T	**52,26**	AV102-60	**39,82**
20,00	8,0	18,0	10,00	65	AV103	**34,77**	AV103T	**59,87**	AV203	**53,58**	AV203T	**88,47**	AV103-60	**45,44**
27,00	11,0	25,0	12,00	85	AV104	**68,65**	AV104T	**108,75**	AV204	**87,30**	AV204T	**139,35**	AV104-60	**79,16**
30,00	12,0	28,0	15,00	95	AV105	**104,85**	AV105T	**186,80**	AV205	**138,71**	AV205T	**239,45**	AV105-60	**129,72**
35,00	14,0	33,0	15,00	100	AV106	**168,56**	AV106T	**267,69**	AV206	**232,37**	AV206T	**402,70**	AV106-60	**205,56**
40,00	16,0	38,0	15,00	110	AV107	**230,15**	AV107T	**376,21**	AV207	**267,37**	AV207T	**431,46**	AV107-60	**278,59**
45,00	18,0	42,0	15,00	120	AV108	**320,21**	AV108T	**479,80**	AV208	**401,81**	AV208T	**572,36**	AV108-60	**360,06**
50,00	20,0	48,0	15,00	130	AV109	**413,39**	AV109T	**596,89**	AV209	**535,53**	AV209T	**718,60**	AV109-60	**438,70**

SVASATORE CONICO 90º MULTITAGLIO

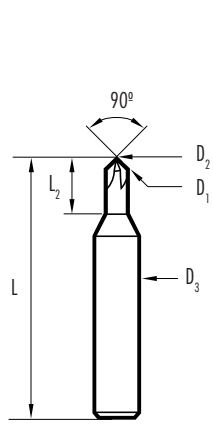
Ref. **FC**

TiAlN | **MD** | 90°





							FC
D1 mm	D2 mm	L mm	L2 mm	D3 mm	Z		€
0,5	0,1	39,0	3,0	3,0	3	FC0050	**68,80**
0,6	0,1	39,0	3,0	3,0	3	FC0060	**68,80**
0,7	0,1	39,0	3,0	3,0	3	FC0070	**68,80**
0,8	0,1	39,0	3,0	3,0	3	FC0080	**68,80**
0,9	0,1	39,0	3,0	3,0	3	FC0090	**68,80**
1,0	0,1	39,0	3,0	3,0	3	FC0100	**66,41**
1,5	0,1	39,0	4,5	3,0	3	FC0150	**66,41**
2,0	0,1	39,0	6,0	3,0	3	FC0200	**66,41**
2,5	0,1	39,0	7,5	3,0	3	FC0250	**66,41**
3,0	0,1	39,0	-	3,0	3	FC0300	**66,41**
4,0	0,8	54,0	-	4,0	4	FC0400	**68,80**
6,0	0,8	57,0	-	6,0*	4	FC0600	**72,35**
8,0	0,8	63,0	-	8,0*	5	FC0800	**79,45**
10,00	1,0	72,0	-	10,0*	6	FC1000	**94,87**
12,00	1,2	83,0	-	12,0*	6	FC1200	**139,95**
16,00	1,6	92,0	-	16,0*	6	FC1600	**250,26**
20,00	2,0	104,0	-	20,0*	6	FC2000	**457,81**



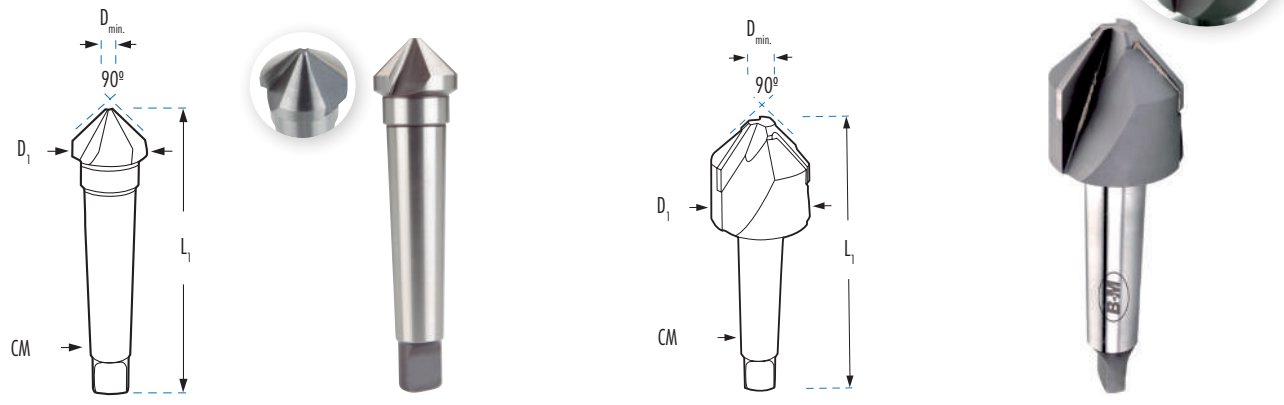
*Con piano di trascinamento

SVASATORI CODOLO CONICO

3Z

Ref. AV17 — DIN 335D — HSS — 90°

Ref. AV17MD — DIN 335D — MD — 90°



D1 mm	D min. mm	L1 mm	CM	AV17 €
16,50	4,0	90	1	**85,29**
20,50	3,5	100	2	**101,53**
25,00	3,8	106	2	**102,58**
31.00	4.2	112	2	**106,18**
40,00	10,0	140	3	**153,15**
50,00	14,0	150	3	**192,77**
63,00	16,0	180	4	**340,03**
80.00	22.0	190	4	**606,07**
100,00	25,0	210	4	**1.576,88**

D1 mm	D min. mm	L1 mm	CM	AV17MD €
63,00	16,0	190	4	**1.571,48***
80,00	22,0	190	4	**1.918,48***

*Fino ad esaurimento scorte

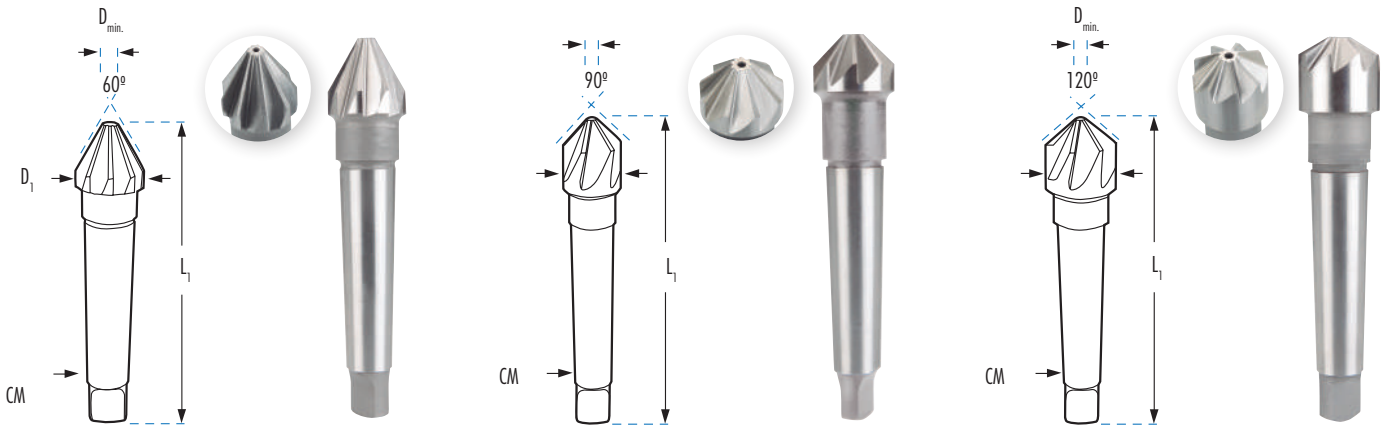
SVASATORI MULTITAGLIO CODOLO CONICO

MULTI TAGLIO

Ref. AV23 — DIN 334B — 60°

Ref. AV18 — DIN 335B — 90°

Ref. AV24 — DIN 347B — 120°



D1 mm	D min. mm	L1 mm	CM	Z	AV23 HSS €
16,00	3,2	93	1	7	**68,60**
20,00	4,0	116	2	7	**80,31**
25,00	7,0	121	2	9	**87,96**
31.50	9.0	124	2	9	**120,29**
40,00	12,5	150	3	11	**220,13**
50,00	16,0	153	3	13	**263,14**
63,00	20,0	185	4	15	**402,85**
80.00	25.0	196	4	17	**622,60**

D1 mm	D min. mm	L1 mm	CM	Z	AV18 HSS €
16,00	3,2	93	1	7	**69,96**
20,00	4,0	116	2	7	**81,82**
25,00	7,0	121	2	9	**89,71**
31.50	9.0	124	2	9	**122,72**
40,00	12,5	150	3	11	**224,60**
50,00	16,0	153	3	13	**268,35**
63,00	20,0	185	4	15	**385,26**
80,00	25.0	196	4	17	**635,10**
100,00	22,0	190	4	20	**1.711,98**

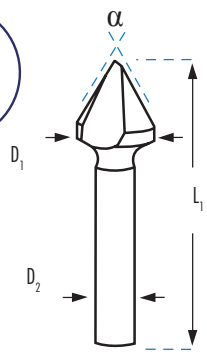
D1 mm	D min. mm	L1 mm	CM	Z	AV24 HSS €
16,00	3,2	93	1	7	**71,23**
20,00	4,0	116	2	7	**83,39**
25,00	7,0	121	2	9	**95,78**
31.50	9.0	124	2	9	**124,93**
40,00	12,5	150	3	11	**198,93**
50,00	16,0	153	3	13	**256,94**
63,00	20,0	185	4	15	**418,34**
80,00	25.0	196	4	17	**646,54**
100,00	27,0	210	4	3	**1.696,85**

SVASATORI A 1 CANALE

HSS — CODOLO CILINDRICO
Ref. AV27
Ref. AV29
90° 60°




1Z



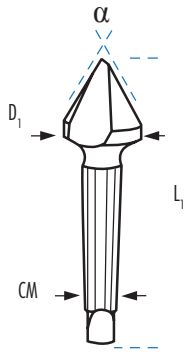



	D1 mm	D2 mm	L1 mm	AV27 90° €		AV29 60° €
AV270600	6,0	5,0	45	14,82	AV290600	27,32
AV270800	8,0	6,0	46	15,64	AV290800	28,62
AV271000	10,0	8,0	46	16,57	AV291000	29,97
AV271200	12,0	8,0	46	19,31	AV291200	33,66
AV271600	16,0	8,0	46,5	22,99	AV291600	40,99
AV272000	20,0	10,0	47	31,42	AV292000	52,67
AV272500	25,0	10,0	51	41,40	AV292500	82,96
AV273000	30,0	12,0	71	59,68	AV293000	108,33
AV274000	40,0	13,0	89	155,55	AV294000	188,30
AV275000	50,0	13,0	98	192,04	AV295000	281,31

HSS — CODOLO CONICO
Ref. AV34
Ref. AV28
90° 60°




1Z






	D1 mm	CM	L1 mm	AV34 90° €		AV28 60° €
AV341600	16,0	1	92	71,22	AV281600	68,14
AV342000	20,0	2	107	89,25	AV282000	74,65
AV342500	25,0	2	110	114,94	AV282500	110,67
AV343000	30,0	2	114	130,61	AV283000	145,85
AV344000	40,0	3	145	210,15	AV284000	192,03
AV345000	50,0	3	152	306,86	AV285000	291,62

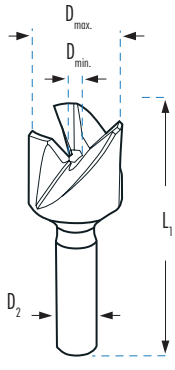
SVASATORI ESTERNI A 3 TAGLIENTI

3Z — HSS — 90° — Ref. AVX

HSS — 60° — Ref. AVX-60

					AVX
$D_{max.}$ mm	$D_{min.}$ mm	D2 mm	L1 mm		€
12,00	4,0	8,0	55	AVX1	**48,21**
20,00	8,0	10,0	60	AVX2	**83,63**
28,00	10,0	13,0	70	AVX3	**118,61**
40,00	12,0	CM2	125	AVX4	**248,58**
50,00	15,0	CM3	130	AVX5	**347,31**

					AVX-60
$D_{max.}$ mm	$D_{min.}$ mm	D2 mm	L1 mm		€
8,00	3,0	8,0	55	AVX1-60	**46,35**
15,00	6,0	10,0	60	AVX2-60	**92,02**
28,00	10,0	13,0	75	AVX3-60	**137,91**





SVASATORE ESTERNO PER RIPARAZIONE DEI FILETTI DI ATTACCO

Ref. AVEXT — HSS — 60°

Min.-Max.	⬡	L1 mm		€
M8-M18	1/4"	75	AVEXT	**28,11**











SVASATORE ESTERNO PER RIPARAZIONE DEI FILETTI DI ATTACCO DI METALLO DURO

NEW — Ref. AVMDEXT — MD — 60° — INOX

Min.-Max.	⬡		€
5-25 mm	1/4"	AVMDEXT	**32,36**









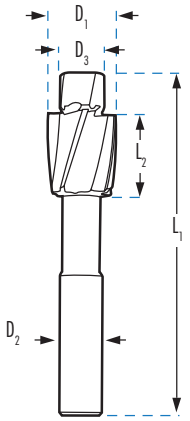
SVASATORI PER SEDI DI VITI "ALLEN"

CODOLO CILINDRICO

Ref. **AV2**

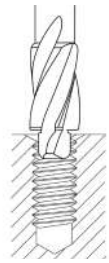
DIN 373 **HSS**

NOTA: La lunghezza di taglio si intende senza guida.
* La regolazione grossa si utilizza per svasare fori filettati.









PER SVASARE FORI FILETTATI



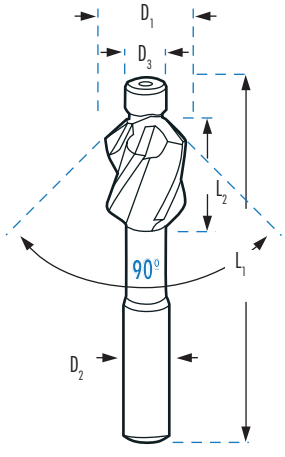
REGOLAZIONE					AV2M		FINE	AV2MM		MEDIA	AV2GM		FORO FILETTATO
	D1 mm	D2 mm	L1 mm	L2 mm		D3 mm	€		D3 mm	€		D3 mm	€
M3	6,0	5,0	71	14	AV2M3	3,2	**26,22**	AV2MM3	3,4	**27,70**	AV2GM3	2,5	**27,70**
M4	8,0	5,0	71	14	AV2M4	4,3	**26,22**	AV2MM4	4,5	**27,70**	AV2GM4	3,3	**27,70**
M5	10,0	8,0	80	18	AV2M5	5,3	**26,22**	AV2MM5	5,5	**27,70**	AV2GM5	4,2	**27,70**
M6	11,0	8,0	80	18	AV2M6	6,4	**29,56**	AV2MM6	6,6	**31,22**	AV2GM6	5,0	**31,22**
M7	20,0	12,7	90	20	AV2M7	7,4	**54,60**						
M8	15,0	12,5	100	22	AV2M8	8,4	**36,66**	AV2MM8	9,0	**38,70**	AV2GM8	6,8	**38,70**
M10	18,0	12,5	100	22	AV2M10	10,5	**43,63**	AV2MM10	11,0	**46,08**	AV2GM10	8,5	**46,08**
M11	22,0	18,8	100	22	AV2M11	11,5	**58,08**						
M12	20,0	12,5	100	22	AV2M12	13,0	**50,90**	AV2MM12	14,0	**53,76**	AV2GM12	10,2	**53,76**
M14	24,0	12,5	100	22	AV2M14	15,0	**79,62**	AV2MM14	15,5	**84,08**	AV2GM14	12,0	**84,08**
M16	26,0	12,5	100	22	AV2M16	17,0	**87,58**	AV2MM16	17,5	**92,48**	AV2GM16	14,0	**92,48**

TESTA CONICA CON GUIDA

Ref. **AV3**

DIN 1866 **HSS**

NOTA: La lunghezza di taglio si intende senza guida





REGOLAZIONE					AV3		FINE
	D1 mm	D2 mm	L1 mm	L2 mm		D3 mm	€
M3	6,3	6,0	71	14,0	AV3M3	3,2	**25,05**
M4	8,3	8,0	71	14,0	AV3M4	4,3	**34,10**
M5	10,4	10,0	80	18,0	AV3M5	5,3	**36,54**
M6	12,4	10,0	80	18,0	AV3M6	6,4	**41,55**
M8	16,5	12,0	100	22,0	AV3M8	8,4	**50,83**
M10	20,5	12,0	100	22,0	AV3M10	10,5	**55,00**
M12	24,5	13,0	110	25,0	AV3M12	13,0	**67,02**

SVASATORI PER SEDI DI VITI "ALLEN"

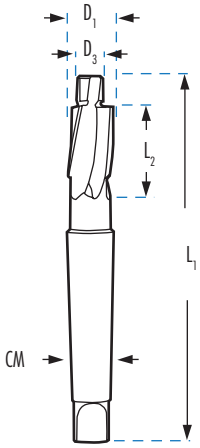
CODOLO CONICO

Ref. AV5

DIN 375

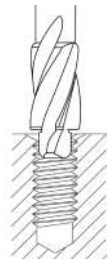
HSS

NOTA: La lunghezza di taglio si intende senza guida.
* La regolazione grossa si utilizza per svasare fori filettati.









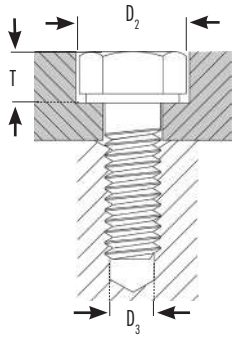


PER SVASARE FORI FILETTATI

REGOLAZIONE					AV5M			AV5MM			AV5GM		
	D1 mm	CM	L1 mm	L2 mm		D3 mm	FINE €		D3 mm	MEDIA €		D3 mm	FORO FILETTATO €
M8	15,0	2	132	22	AV5M8	8,4	**72,37**				AV5GM8	6,8	**72,37**
M10	18,0	2	140	25	AV5M10	10,5	**74,28**	AV5MM10	11,0	**74,28**	AV5GM10	8,5	**74,28**
M12	20,0	2	140	25	AV5M12	13,0	**82,17**	AV5MM12	14,0	**82,17**	AV5GM12	10,2	**82,17**
M14	24,0	2	150	30	AV5M14	15,0	**114,07**	AV5MM14	15,5	**114,07**	AV5GM14	12,0	**114,07**
M16	26,0	3	180	35	AV5M16	17,0	**133,94**	AV5MM16	17,5	**133,94**	AV5GM16	14,0	**133,94**
M18	30,0	3	180	35	AV5M18	19,0	**144,52**	AV5MM18	20,0	**144,52**	AV5GM18	15,5	**144,52**
M20	33,0	3	190	40	AV5M20	21,0	**157,47**	AV5MM20	22,0	**157,47**	AV5GM20	17,5	**157,47**
M22	36,0	3	190	40	AV5M22	23,0	**191,90**	AV5MM22	24,0	**191,90**	AV5GM22	19,5	**191,90**
M24	40,0	3	190	40	AV5M24	25,0	**231,99**	AV5MM24	26,0	**231,99**	AV5GM24	21,0	**231,99**
M27	46,0	4	255	50	AV5M27	30,0	**263,61**						
M30	48,0	4	255	50	AV5M30	33,0	**318,88**						

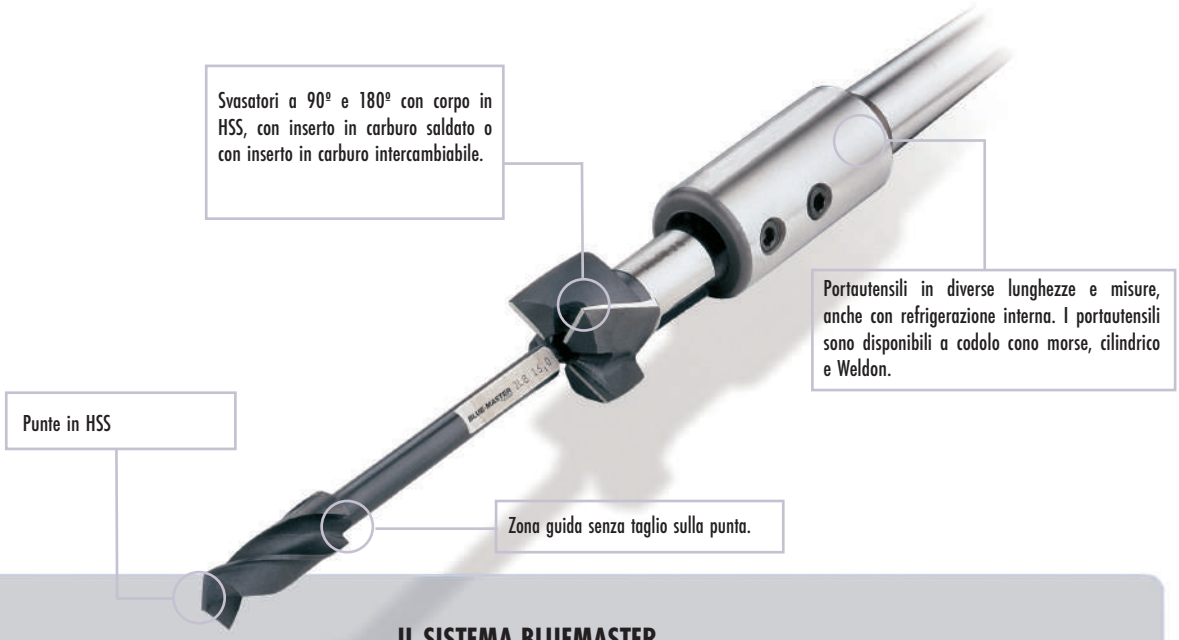
APPLICACIONI DEI TIPI DI REGOLAZIONE: FINE, MEDIA E FORO FILETTATO

T_1: Viti testa cilindrica DIN 84 e DIN 7984
Viti Autofilettanti DIN 7513
DIN 7500
T_2 : Viti testa cilindrica DIN 6912
T_3 : Viti testa cilindrica DIN 912



	FINE	MEDIA	FORO FILETTATO				
FILETTATURE METRICHE	D3 mm	D3 mm	D3 mm	D2 mm	T1 mm	T2 mm	T3 mm
M3	3,2	3,4	2,5	6,0	2,4	--	3,4
M4	4,3	4,5	3,3	8,0	3,2	3,4	4,6
M5	5,3	5,5	4,2	10,0	4,0	4,2	5,7
M6	6,4	6,6	5,0	11,0	4,7	4,8	6,8
M8	8,4	9,0	6,8	15,0	6,0	6,0	6,0
M10	10,5	11,0	8,5	18,0	7,0	7,5	11,0
M12	13,0	13,5	10,2	20,0	8,0	8,5	13,0
M14	15,0	15,5	12,0	24,0	9,0	9,5	15,0
M16	17,0	17,5	14,0	26,0	10,5	11,5	17,5
M18	19,0	20,0	15,5	30,0	11,5	12,5	19,5
M20	21,0	22,0	17,5	33,0	12,5	13,5	21,5
M22	23,0	24,0	19,5	36,0	13,5	14,5	23,5

SVASATORI CON ELEMENTI INTERCAMBIABILI PER SEDI DI VITI CON TESTA "ALLEN" E CONICA



IL SISTEMA BLUEMASTER

Il sistema BLUEMASTER è unico per le operazioni di svasatura, incrementandone la produttività e diminuendone i costi.

I nostri portautensili, frese, punte e guide si possono combinare per adattarli a tutti i tipi di macchine e applicazioni.

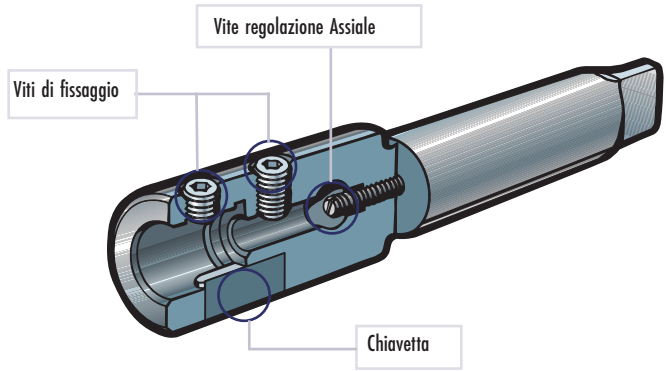
Può comporre facilmente più di 1.500.000 utensili speciali con solo 1.300 pezzi.

Il sistema è costituito da 3 gruppi di dimensioni: **SERIE A, SERIE B e SERIE C.**

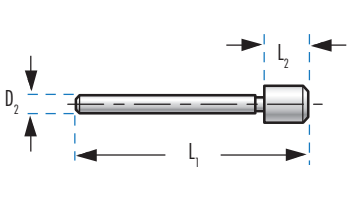
Tutte le combinazioni devono essere formate da elementi appartenenti allo stesso gruppo. Utensili di gruppi differenti non sono combinabili tra loro.

Nelle pagine seguenti troverà gli intervalli di misure disponibili per ogni gruppo e i consigli per la scelta corretta sia dell'utensile sia dei parametri di taglio.

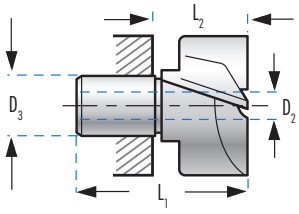
Importante!
* Per l'utilizzo con metallo duro, collocare la vite di regolazione assiale in contatto con la guida o la punta inserita.
* Lasciare uno spazio tra il filo e la guida o la punta per prevenire rotture da impatto accidentale.
* La vite assiale si usa anche per prolungare la vita delle punte prima di riaffilarle.



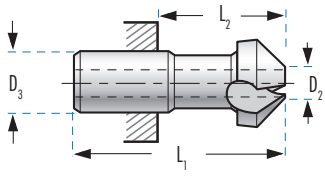
DIMENSIONI DI GUIDA, MANDRINO E PUNTA



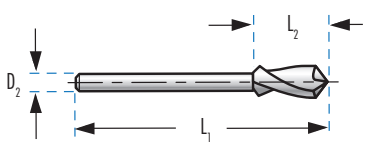
	GUIDA D2 mm	L1 mm	L2 mm
AGP	4	64	9
BGP	6	80	14
CGP	10	110	20



	MANDRINO D3 mm	D2 mm	L1 mm	L2 mm
APAV-MD-PQ	10	4	40	22
BPAV-MD-PQ	14	6	48	28
CPAV-MD-PQ	22	10	61	33



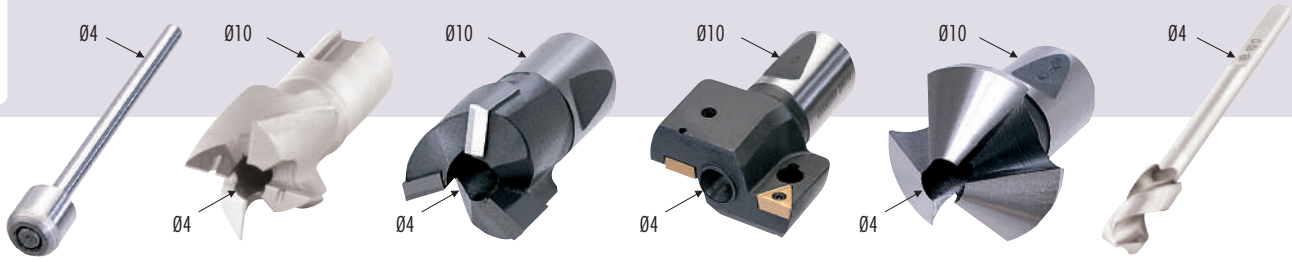
	SVASATORE D3 mm	D2 mm	L1 mm	L2 mm
AVC	10	4	40	22
BVC	14	6	48	28
CVC	22	10	61	33



	PUNTA D2 mm	L1 mm	L2 mm
ABP	4	70	15
BBP	6	95	25
CBP	10	125	30

SVASATORI CON ELEMENTI INTERCAMBIABILI PER SEDI DI VITI CON TESTA "ALLEN" E CONICA

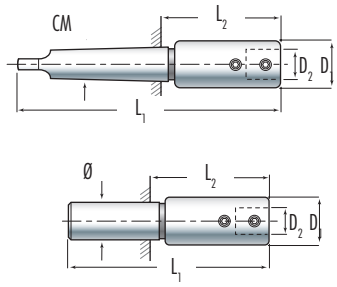
SERIE A



GUIDA		MANDRINO		MANDRINO		PLACCHETTA INTERCAMBIABILE		SVASATORE		PUNTA	
AGP		**APAV**		**APAVMD**		**APAVPQ**		**AVC**		**ABP**	
	€		HSS €		MD €	placchetta non inclusa	PMD €	90°	HSS €		HSS €
										ABP0430	**84,44**
										ABP0450	**84,44**
										ABP0500	**84,44**
AGP0400	**48,72**									ABP0530	**84,44**
AGP0450	**58,09**	APAV0700	**148,68**							ABP0550	**84,44**
AGP0550	**58,09**	APAV0800	**146,86**					AVC0800	**193,76**	ABP0600	**99,23**
AGP0600	**58,09**	APAV0900	**146,86**							ABP0640	**99,23**
AGP0650	**58,09**	APAV1000	**142,18**	APAVMD1000	**417,54**			AVC1000	**193,76**	ABP0650	**99,23**
AGP0640	**58,09**										
AGP0660	**58,09**	APAV1100	**146,86**	APAVMD1100	**417,54**			AVC1200	**196,67**	ABP0660	**99,23**
AGP0500	**58,09**										
		APAV1150	**162,39**							ABP0700	**99,23**
		APAV1200	**148,68**	APAVMD1200	**417,54**			AVC1150	**190,17**		
		APAV1250	**164,91**					AVC1240	**198,94**		
		APAV1300	**162,04**	APAVMD1300	**417,54**						
		APAV1350	**186,56**					AVC1350	**198,94**		
		APAV1400	**162,04**	APAVMD1400	**421,51**			AVC1400	**213,27**		
		APAV1450	**186,93**								
AGP0840	**58,82**										
AGP0900	**58,82**	APAV1500	**163,85**	APAVMD1500	**426,20**			AVC1500	**215,05**		
AGP0680	**58,09**										
AGP0700	**58,09**	APAV1600	**173,20**	APAVMD1600	**435,95**			AVC1600	**216,16**		
AGP0750	**58,09**	APAV1700	**176,49**	APAVMD1700	**445,33**			AVC1650	**210,40**		
AGP0800	**58,82**	APAV1800	**181,15**	APAVMD1800	**454,67**	APAVPQ1800	**949,79**				
AGP0850	**58,82**	APAV1900	**192,72**	APAVMD1900	**475,26**						
AGP0900	**58,82**	APAV2000	**199,56**	APAVMD2000	**485,38**	APAVPQ2000	**1.064,58**				
AGP0950	**58,82**	APAV2100	**217,63**	APAVMD2100	**508,45**						
AGP1000	**58,82**										
AGP1050	**58,82**										
AGP1100	**58,82**										
AGP1150	**58,82**										

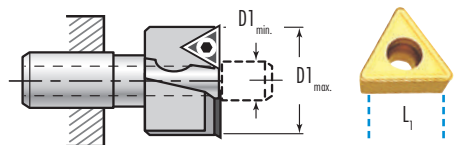
ADATTATORI





	D1 mm	D2 mm	L1 mm	L2 mm	CM Ø mm	APH €
APHCM1	18	10	110	48	CM1	**348,23**
APHCM2	18	10	132	57	CM2	**341,75**
APH-10	18	10	92	42	Ø10	**325,49**

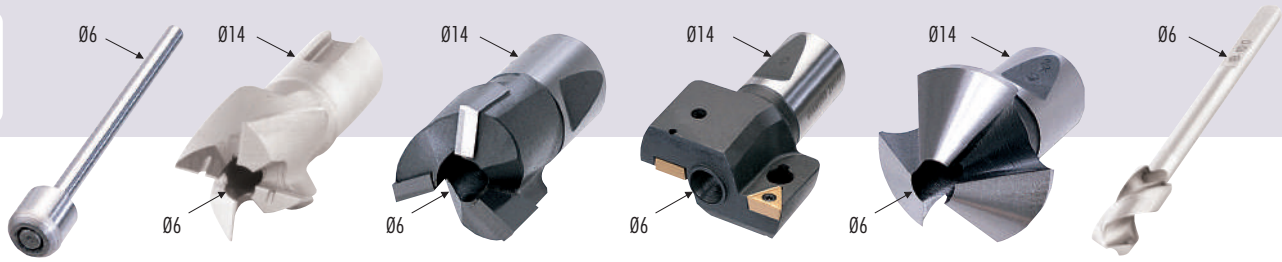
PLACCHETTE DI RICAMBIO



	L1 mm	D1min. Ømm	D1max. Ømm	PPQ €
PPQ07	7	18	20	**36,09**

SVASATORI CON ELEMENTI INTERCAMBIABILI PER SEDI DI VITI CON TESTA "ALLEN" E CONICA

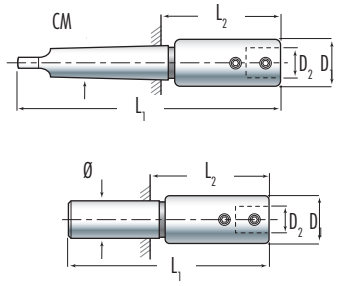
SERIE B



GUIDA		MANDRINO		MANDRINO		PLACCHETTA INTERCAMBIABILE		SVASATORE		PUNTA	
BGP		**BPAV**		**BPAVMD**		**BPAVPQ**		**BVC**		**BBP**	
	€		HSS €		MD €	placchetta non inclusa	PMD €	90°	HSS €		HSS €
		BPAV1300	**164,55**	BPAVMD1300	**445,33**						
		BPAV1350	**185,83**								
		BPAV1400	**164,55**	BPAVMD1400	**445,33**						
		BPAV1450	**185,83**							BBP0800	**118,01**
BGP0840	**54,86**										
BGP0900	**54,86**	BPAV1500	**164,55**	BPAVMD1500	**445,33**			BVC15	**204,26**	BBP0900	**118,01**
BGP0680	**54,86**										
BGP0800	**54,86**										
BGP1000	**54,86**	BPAV1550	**188,38**								
BGP1150	**58,09**	BPAV1600	**173,60**	BPAVMD1600	**461,90**					BBP0840	**118,01**
BGP1250	**60,26**	BPAV1650	**201,35**							BBP0850	**118,01**
BGP1350	**66,39**	BPAV1700	**180,78**	BPAVMD1700	**461,90**					BBP0950	**118,01**
BGP1450	**67,10**	BPAV1750	**202,79**							BBP1000	**134,60**
		BPAV1900	**208,59**	BPAVMD1900	**465,90**					BBP1050	**134,60**
BGP1050	**58,09**										
BGP1100	**58,09**	BPAV1800	**187,66**	BPAVMD1800	**465,90**			BVC20	**230,96**	BBP1100	**134,60**
BGP0850	**54,86**										
BGP1300	**66,39**										
BGP1400	**67,10**	BPAV2000	**208,59**	BPAVMD2000	**480,33**	BPAVPQ2000	**950,60**	BVC25	**240,36**		
BGP1020	**58,09**										
BGP1500	**67,10**										
BGP1550	**67,10**	BPAV2400	**246,49**	BPAVMD2400	**510,28**	BPAVPQ2400	**951,83**	BVC28	**279,66**		
BGP1200	**58,09**										
BGP1700	**67,10**										
BGP1750	**67,10**	BPAV2600	**263,43**	BPAVMD2600	**513,16**	BPAVPQ2600	**1.091,34**	BVC30	**285,83**		
BGP1400	**67,10**										
BGP1900	**68,55**										
BGP2000	**85,53**	BPAV3000	**355,81**	BPAVMD3000	**559,73**	BPAVPQ3000	**1.091,34**				
		BPAV3400	**420,77**	BPAVMD3400	**645,55**	BPAVPQ3400	**1.259,64**				

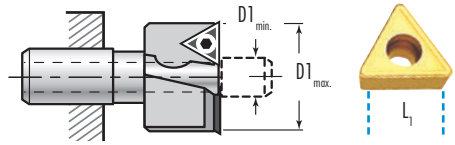
ADATTATORI





	D1 mm	D2 mm	L1 mm	L2 mm	CM Ømm	BPH €
BPHCM1	24	14	123	62	CM1	**386,15**
BPHCM2	24	14	137	62	CM2	**352,58**
BPHCM3	24	14	160	66	CM3	**386,15**
BPH-12	24	14	120	55	Ø12	**348,58**

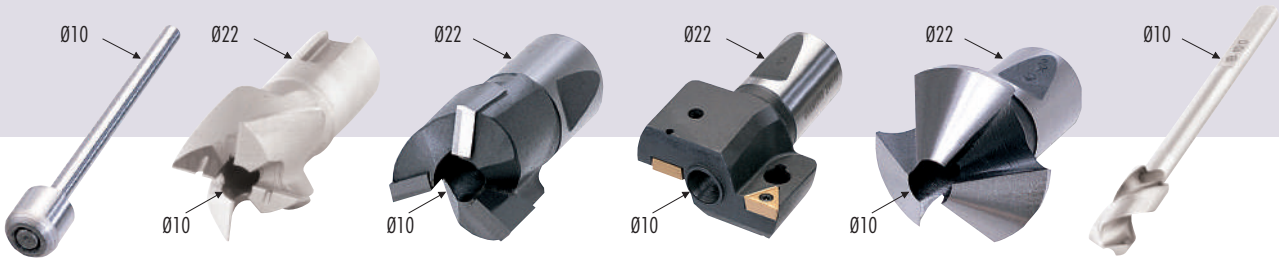
PLACCHETTE DI RICAMBIO



	L1 mm	D1min. Ømm	D1max. Ømm	PPQ €
PPQ07	7	20	25	**36,09**
PPQ10	10	26	33	**32,49**
PPQ12	12	34	36	**32,49**

SVASATORI CON ELEMENTI INTERCAMBIABILI PER SEDI DI VITI CON TESTA "ALLEN" E CONICA

SERIE C

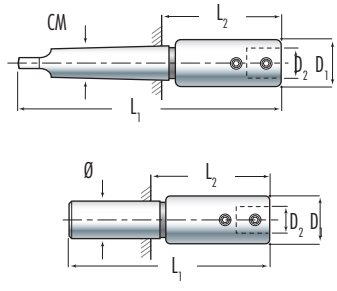


GUIDA | MANDRINO | MANDRINO | PLACCHETTA INTERCAMBIABILE | SVASATORE | PUNTA

CGP		CPAV		CPAVMD		CPAVPQ		CVC		CBP	
	€		HSS €		MD €	placchetta non inclusa	PMD €	90°	HSS €		HSS €
CGP1200	62,42	CPAV2300	298,80	CPAVMD2300	556,82						
CGP1250	62,42	CPAV2400	302,76	CPAVMD2400	551,03						
CGP1300	62,42	CPAV2500	327,32	CPAVMD2500	552,13						
CGP1350	62,42	CPAV2600	333,81	CPAVMD2600	567,29						
CGP1400	73,27	CPAV2700	338,49								
CGP1450	73,27	CPAV2800	344,99	CPAVMD2800	572,69					CBP1700	294,84
CGP1500	73,27	CPAV2900	353,28							CBP1800	332,36
CGP1600	73,27	CPAV3100	383,97							CBP1900	348,58
CGP1650	73,27	CPAV3200	396,61	CPAVMD3200	625,37					CBP2100	377,86
CGP1700	73,27	CPAV3300	400,21							CBP2300	454,67
CGP1900	73,27										
CGP2000	73,27	CPAV3000	357,97	CPAVMD3000	631,52			CVC35	416,79	CBP2000	377,86
CGP1550	73,27										
CGP2100	81,58										
CGP2200	81,58	CPAV3400	404,19	CPAVMD3400	671,22	CPAVPQ3400	1.302,62	CVC37	440,99	CBP2200	421,51
CGP1750	73,27										
CGP1850	73,27	CPAV3500	423,31								
CGP2300	81,58										
CGP2400	81,58	CPAV3600	428,36	CPAVMD3600	689,61	CPAVPQ3600	1.302,62	CVC37	440,99	CBP2400	464,47
CGP1950	73,27										
CGP2500	81,58										
CGP2600	100,31	CPAV4000	497,28	CPAVMD4000	763,95	CPAVPQ4000	1.332,63	CVC40	468,77		
CGP2100	81,58										
CGP2200	81,58	CPAV4500	613,49			CPAVPQ4500	1.356,96				
CGP2050	81,58	CPAV5000	890,99			CPAVPQ5000	1.587,73				
		CPAV5500	938,62			CPAVPQ5500	1.875,26				
		CPAV6000	989,13			CPAVPQ6000	1.875,26				
		CPAV6500	1.112,58			CPAVPQ6500	2.144,53				

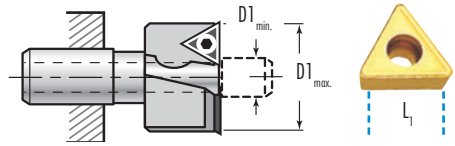
ADATTATORI





	D1 mm	D2 mm	L1 mm	L2 mm	CM Ømm	CPH €
CPHCM2	36	22	160	85	CM2	508,45
CPHCM3	36	22	180	87	CM3	480,33
CPHCM4	36	22	206	89	CM4	538,43
CPHCM5	36	22	240	91	CM5	1.184,75
CPH-12	36	22	140	71	Ø20	348,58

PLACCHETTE DI RICAMBIO



	L1 mm	D1min. Ømm	D1max. Ømm	PPQ €
PPQ12	12	34	45	32,49
PPQ17	17	<46		50,35

SET DI SVASATORI

SET DI PUNTE A SVASARE PER TUBI E LAMIERE HSS E HSSCo

Plástica Blu

- Rigido, robusto e leggero
- Finestra trasparente
- Plastica rinforzata con gomma antiurto

P I riferimenti che iniziano con "P" vengono forniti in custodia plastica.



Ref. PAV6CM2

Metallo "Classico"

- Scatola metallica alta resistenza

M



Ref. PAV40BM2313



Ref. AV40BM234

Ref. AV6CM3

AV40	Ref.	Unità		CONTENUTO	HSS €	TiN €
Ø≥3 HSS	PAV40BM234	3	P	AV40BM2 (4-12 mm) AV40BM3 (4-20 mm) AV40BM4 (4-30 mm)	136,87	205,94
	PAV40BM235	3	P	AV40BM2 (4-12 mm) AV40BM3 (4-20 mm) AV40BM5 (6-38 mm)	230,42	333,47
	PAV40BM2313	3	P	AV40BM2 (4-12 mm) AV40BM3 (4-20 mm) AV40BM13 (6-40 mm)	273,80	394,61
	AV40BM234	3	M	AV40BM2 (4-12 mm) AV40BM3 (4-20 mm) AV40BM4 (4-30 mm)	136,87	205,94
	AV40BM22122	3	M	AV40BM2 (4-12 mm) AV40BM21 (7+10-20mm) AV40BM22 (10+20-30mm)	179,14	280,22
AVC40					HSSCo	TiN
HSSCo	AVC40BM234	3	M	AVC40BM2 (4-12 mm) AVC40BM3 (4-20 mm) AVC40BM4 (4-30 mm)	181,26	294,99
AV42					HSSCo	TiN
HSSCo	AV42BM234	3	M	AV42BM2 (4-12 mm) AV42BM3 (4-20 mm) AV42BM4 (4-30 mm)	173,99	252,21
AV30					HSS	TiN
118° HSS	AV30BM012	3	M	AV30BM0 (3-14 mm) AV30BM1 (6-20 mm) AV30BM2 (16-30 mm)	99,60	189,05
AVC30					HSSCo	TiN
118° HSSCo	AVC30BM012	3	M	AVC30BM0 (3-14 mm) AVC30BM1 (6-20 mm) AVC30BM2 (16-30 mm)	144,87	204,07



AV40BM2 AV40BM3 AV40BM4 AV40BM5 AV40BM13

AVC40BM2 AVC40BM3 AVC40BM4



AV42BM2 AV42BM3 AV42BM4



AV30BM0 AV30BM1 AV30BM2

AVC30BM0 AVC30BM1 AVC30BM2

SET DI SVASATORI

DIN 335C | 90°



AV16	Ref.	Unità		CONTENUTO	€
HSS	AV16CM1	6	M	Ø 6 - 8 - 10 11,5 - 15 - 19 mm	158,29
TiN	AV16CM2	6	M	Ø 6,3 - 8,3 - 10,4 12,4 - 16,5 - 20,5 mm	132,31
	AV16CM3	7	M	Ø 6,3 - 8,3 - 10,4 12,4 - 16,5 - 20,5 - 25 mm	182,69



Ref. PAV6CM2

Ref. AV16CM3

DIN 335C | 90°



AV6					€
HSS	AV6CM1	6	M	Ø 6 - 8 - 10 11,5 - 15 - 19 mm	103,34
	AV6CM2	6	M	Ø 6,3 - 8,3 - 10,4 12,4 - 16,5 - 20,5 mm	105,85
	AV6CM3	7	M	Ø 6,3 - 8,3 - 10,4 12,4 - 16,5 - 20,5 - 25 mm	144,53
	PAV6CM2	6	P	Ø 6,3 - 8,3 - 10,4 12,4 - 16,5 - 20,5 mm	105,85

DIN 335C | 90°



AV7	Ref.	Unità		CONTENUTO	€
HSSCo	AV7CM1	6	M	Ø 6 - 8 - 10 11,5 - 15 - 19 mm	173,87
	AV7CM2	6	M	Ø 6,3 - 8,3 - 10,4 12,4 - 16,5 - 20,5 mm	169,57
	AV7CM3	7	M	Ø 6,3 - 8,3 - 10,4 12,4 - 16,5 - 20,5 - 25 mm	234,54
	PAV7CM2	6	P	Ø 6,3 - 8,3 - 10,4 12,4 - 16,5 - 20,5 mm	169,57

DIN 335C | 90°





AV66	Ref.	Unità		CONTENUTO	€
HSSCo	PAV66CM2	6	P	Ø 6,3 - 8,3 - 10,4 12,4 - 16,5 - 20,5 mm	206,04

DIN 335C | 90°





AV67	Ref.	Unità		CONTENUTO	€
HSSCo	PAV67CM2	6	P	Ø 6,3 - 8,3 - 10,4 12,4 - 16,5 - 20,5 mm	267,86

HARDOX 500

DIN 335C | 90°





AV55	Ref.	Unità		CONTENUTO	€
HSSCo	PAV55CM2	6	P	Ø 6,3 - 8,3 - 10,4 12,4 - 16,5 - 20,5 mm	267,86

DIN 335C | 90°



AV6MD	Ref.	Unità		CONTENUTO	€
MD	PAV6MDCM2	6	P	Ø 6,3 - 8,3 - 10,4 12,4 - 16,5 - 20,5 mm	586,17

HARDOX 500

DIN 335C | 90°

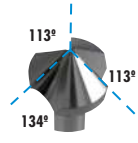




AV55MD	Ref.	Unità		CONTENUTO	€
MD	PAV55MDCM2	6	P	Ø 6,3 - 8,3 - 10,4 12,4 - 16,5 - 20,5 mm	818,08

DIN 335C | 90°





AV66MD	Ref.	Unità		CONTENUTO	€
MD	PAV66MDCM2	6	P	Ø 6,3 - 8,3 - 10,4 12,4 - 16,5 - 20,5 mm	654,47

SET DI SVASATORI

DIN 334C

AV8	Ref.	Unità		CONTENUTO	€
60°	AV8CM2	6	M	Ø 6,3 - 8 - 10 12,5 - 16 - 20 mm	166,97
HSS	AV8CM3	7	M	Ø 6,3 - 8,0 - 10 12,5 - 16 - 20 - 25 mm	221,90



AV8 AV9 AV10



Ref. AV10CM6

NORMA CELESA

AV9	Ref.	Unità		CONTENUTO	€
75°	AV9CM1	6	M	Ø 6,3 - 8,3 - 10,4 12,4 - 16,5 - 20,5 mm	177,87
HSS	AV9CM5	7	M	Ø 6,3 - 8,3 - 10,4 12,4 - 16,5 - 20,5 - 25 mm	243,24

NORMA CELESA

AV10	Ref.	Unità		CONTENUTO	€
120°	AV10CM1	6	M	Ø 6,3 - 8,3 - 10,4 12,4 - 16,5 - 20,5 mm	195,64
HSS	AV10CM6	7	M	Ø 6,3 - 8,3 - 10,4 12,4 - 16,5 - 20,5 - 25 mm	268,24

* Altri set su richiesta AV99, ecc.

90°

AV1	Ref.	Unità		CONTENUTO	€
HSS	AV1S2	5	M	Ø 10 - 14 20 - 27 - 30 mm	233,61



AV1

*Fino ad esaurimento scorte

HSS DIN 373

AV2M	Ref.	Unità		CONTENUTO	€
FINE	AV2M3-10	6	M	M3-M4-M5-M6-M8-M10	177,47
	AV2M3-12	7	M	M3-M4-M5-M6-M8-M10-M12	225,39

AV2MM	Ref.	Unità		CONTENUTO	€
MEDIA	AV2M3-10M	6	M	M3-M4-M5-M6-M8-M10	187,43
	AV2M3-12M	7	M	M3-M4-M5-M6-M8-M10-M12	238,03

AV2GM	Ref.	Unità		CONTENUTO	€
FORO FILETTATO	AV2M3-10G	6	M	M3-M4-M5-M6-M8-M10	187,43
	AV2M3-12G	7	M	M3-M4-M5-M6-M8-M10-M12	238,03



AV2 AV2MM AV2GM

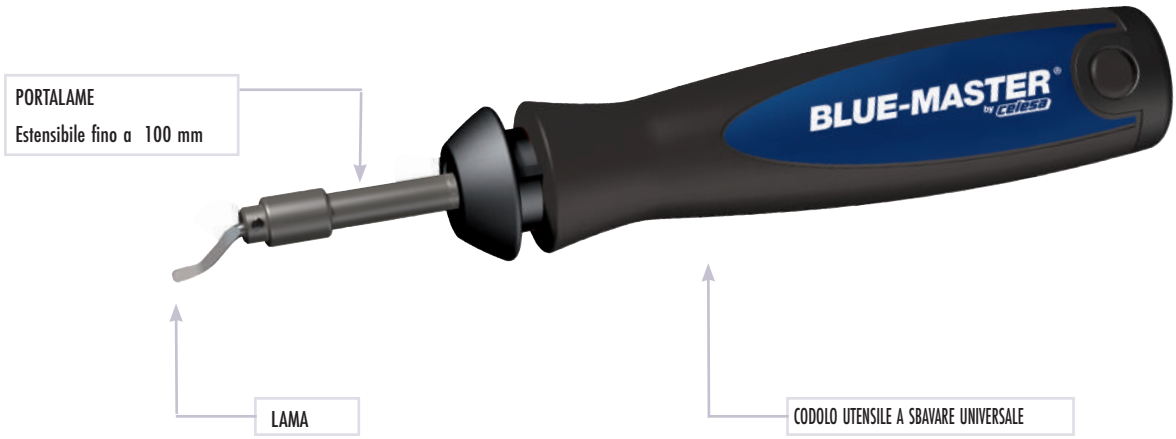


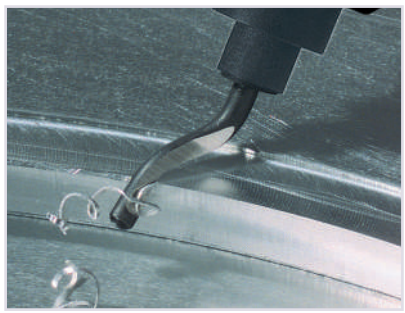
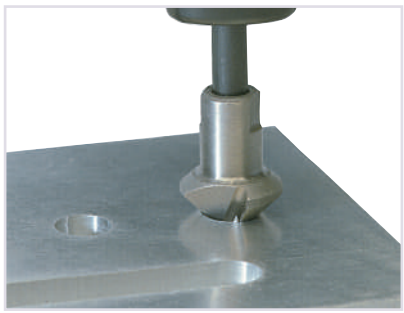
Ref. AV2M3-10

UTENSILI A SBAVARE DI PRECISIONE

GLI UTENSILI A SBAVARE BLUEMASTER

Gli utensili a sbavare BLUEMASTER si utilizzano per rimuovere i trucioli dai bordi e gli spigoli di pezzi fabbricati in metallo, plastica o legno.
Il sistema si completa unendo i tre componenti segnalati: LAMA + PORTALAME + CODOLO UNIVERSALE
Il codolo può essere utilizzato con tutti i gruppi di lame, sostituendo opportunatamente il portalame per ognuno di essi.




INSIEME B

JRB1

CONTENUTO B:

Ref. RB10
Ref. RB20





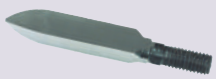
Ref. RBB1
Ref. RBB

Blister: **35,13 €**

INSIEME C

JRB2

CONTENUTO C:



Ref. RC42



Ref. RBB1
Ref. RBC

Blister: **63,97 €**



INSIEME D

JRB3

CONTENUTO D:



Ref. RD80MD



Ref. RBB1
Ref. RBD

Blister: **100,83 €**

INSIEME E

JRB4

CONTENUTO E:



Ref. RE10
Ref. RE20
Ref. RE30



Ref. RBB1
Ref. RBE

Blister: **39,12 €**

UTENSILI A SBAVARE DI PRECISIONE

GRUPPO B

PORTALAME GRUPPO B



Per lame a sbavare Gruppo B

RBB
12,34 €

LAME GRUPPO B



Lama a sbavare
Serie corta: acciaio, alluminio, plastica

RB10*
Blister 10 U.: **2,16 €**/U.



Lama a sbavare bidirezionale
Serie corta:ottone, ghisa

RB20
Blister 10 U.: **2,16 €**/U.



Lama a sbavare per la parte posteriore di un trapano fino a 20 mm de profondità

RB30
Blister 10 U.: **2,16 €**/U.



Lama punzonatrice in metallo duro

RB50*
Blister 1 U.: **38,66 €**



Lama a sbavare per la parte posteriore di un trapano fino a 20 mm de profondità

RB60*
Blister 10 U.: **4,49 €**/Ud



Lama a sbavare con spigoli esterni

RB70MD*
Blister 1 U.: **46,16 €**

*Fino ad esaurimento scorte

GRUPPO C

PORTALAME GRUPPO C



Per lame a sbavare Gruppo C

RBC
Blister 1U.: **12,34 €**

LAME GRUPPO C



Lama raschiatrice larghezza 4 x 20 mm

RC40*
Blister 1 U.: **25,14 €**



Lama raschiatrice larghezza 8 x 30 mm

RC42*
Blister 1 U.: **31,27 €**

*Fino ad esaurimento scorte

GRUPPO D

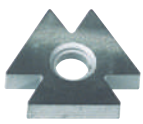
PORTALAME GRUPPO D



Per lame a sbavare Gruppo D

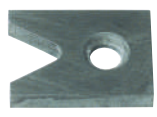
RBD
Blister 1 U.: **12,34 €**

LAME GRUPPO D



Lama a sbavare in metallo duro a "V" femmina bordi fino a 3 mm

RD80MD*
Blister 1 U.: **65,69 €**



Lama a sbavare in metallo duro a "V" femmima bordi fino a 8 mm

RD82MD*
Blister 1 U.: **103,01 €**

*Fino ad esaurimento scorte

CODOLO UTENSILE A SBAVARE UNIVERSALE

Usi generali
Adatto per portalame:
Ref. RBB / RBC / RBD / RBE / RBF



RBB1
Blister 1 ud.: **16,19 €**

UTENSILI A SBAVARE DI PRECISIONE

GRUPPO E

PORTALAME GRUPPO E

Ø3,2mm



Portalame gruppo E

RBE
Blister 1 ud.: **12,34 €**

LAME GRUPPO E



Lama a sbavare per interni ed esterni
Serie lunga: acciaio, alluminio, plastica

RE10
Blister 10 ud.: **2,66 €**/Ud



Lama a sbavare per bordi retti: scanalatura di chiavetta,...

RE35
Blister 10 ud.: **2,83 €**/Ud



Lama a sbavare bidirezionale
Serie lunga: ottone, ghisa

RE20
Blister 10 ud.: **2,66 €**/Ud





Lama a sbavare chiusa doppio spigolo per fori di 4 mm di profondità

RE30
Blister 10 ud.: **2,66 €**/Ud



Lama a sbavare per la parte posteriore di un trapano fino a 20 mm di profondità

RE60*
Blister 5 ud.: **3,73 €**/Ud

*Fino ad esaurimento scorte

GRUPPO F

PORTALAME GRUPPO F



Per lame a sbavare Gruppo F

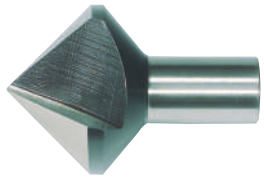
RBF
Blister 1 ud.: **12,34 €**

LAME GRUPPO F (Filettatura M05 x 0.80)



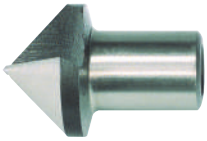
Lama a svasare HSS Ø 12 mm

RF12
Blister 1 ud.: **27,73 €**



Lama a svasare HSS Ø 30 mm

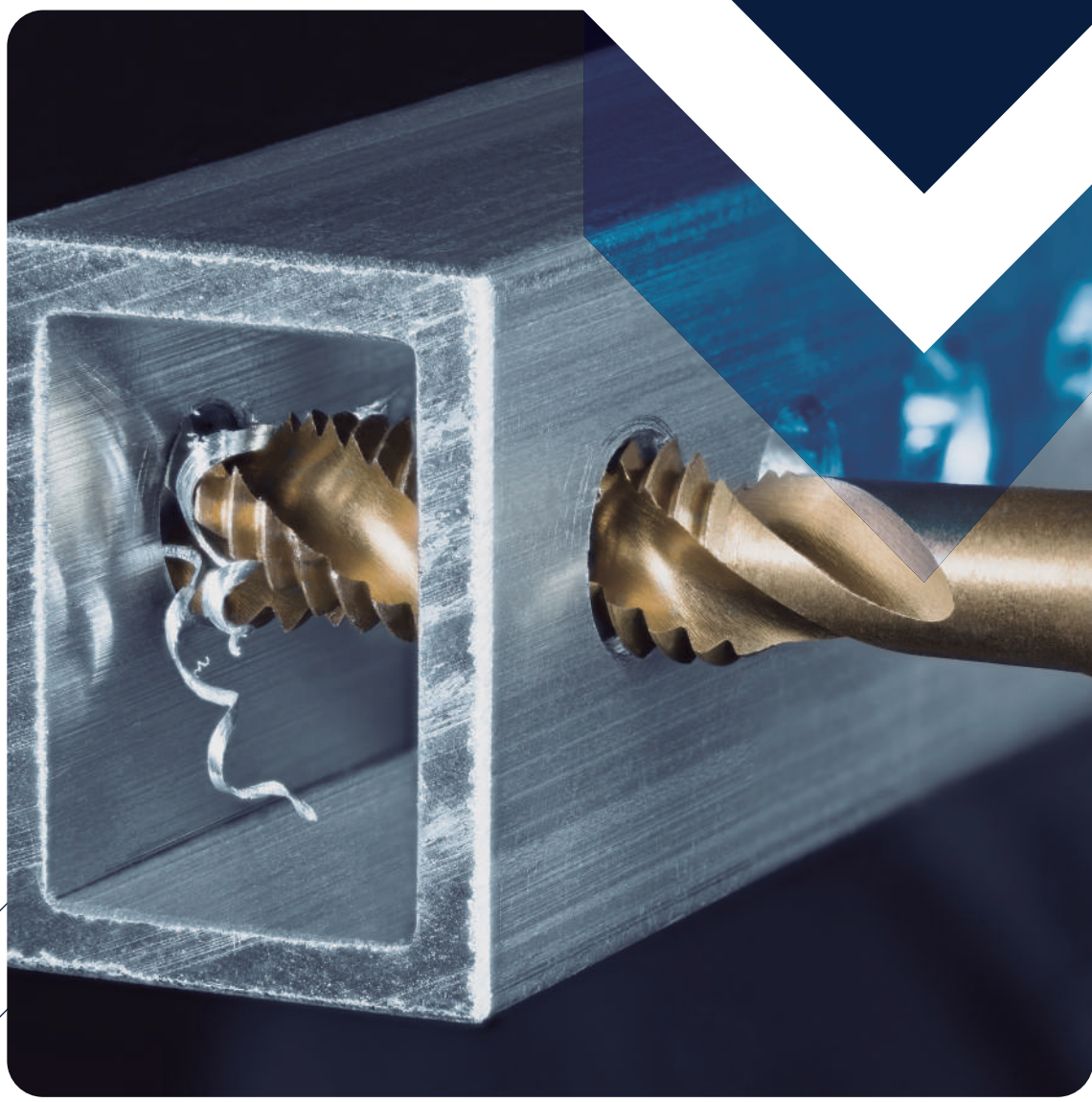
RF30
Blister 1 ud.: **92,67 €**



Lama a svasare HSS Ø 20 mm

RF20
Blister 1 ud.: **53,61 €**

BLUE-MASTER®
by celesa



MASCHI
E FILIERE

SERIE DI MASCHI E FILIERE PER FILETTARE A MANO HSS

M MF — DIN 13 — 60° — p

Ref. M0 | HSS | DIN 352 (M) | DIN 2181 (MF) | TOL 6H

Ref. C5 | HSS | DIN 223 | TOL 6g

Per materiali fino a 38 HRc.



	U.tà	Ø	L1 x L2 x mm	M0 €	Ø x L3 mm	C5 €
M 1x0,20	2	0,80	32 x 5,5 x 2,1	85,55		
M 1x0,25	**3**	**0,75**	32 x 6,0 x 2,1	72,37	16 x 5	33,29
M 1,1x0,20	2	0,90	32 x 5,5 x 2,1	85,55		
M 1,1x0,25	3	0,85	32 x 6,0 x 2,1	72,37	16 x 5	33,29
M 1,2x0,20	2	1,00	32 x 5,5 x 2,1	85,55		
M 1,2x0,25	3	0,95	32 x 6,0 x 2,1	72,37	16 x 5	33,29
M 1,4x0,20	2	1,20	32 x 7,0 x 2,1	85,55		
M 1,4x0,25	2	1,15	32 x 7,0 x 2,1	85,55		
M 1,4x0,30	3	1,10	32 x 7,0 x 2,1	72,37	16 x 5	34,24
M 1,6x0,20	2	1,40	32 x 8,0 x 2,1	78,05		
M 1,6x0,25	2	1,35	32 x 8,0 x 2,1	78,05		
M 1,6x0,35	3	1,25	32 x 8,0 x 2,1	72,10	16 x 5	34,24
M 1,7x0,35	3	1,35	32 x 8,0 x 2,1	72,57	16 x 5	34,24
M 1,8x0,20	2	1,60	32 x 8,0 x 2,1	73,26		
M 1,8x0,25	2	1,55	32 x 8,0 x 2,1	73,26		
M 1,8x0,35	3	1,45	32 x 8,0 x 2,1	72,57	16 x 5	34,24
M 2x0,25	2	1,75	36 x 8,0 x 2,1	69,12		
M 2x0,35	2	1,65	36 x 8,0 x 2,1	69,12		
M 2x0,40	**3**	**1,60**	36 x 9,0 x 2,1	29,72*	16 x 5	30,52*
M 2,2x0,45	3	1,75	36 x 9,0 x 2,1	30,23	20 x 5	30,52
M 2,3x0,40	3	1,90	36 x 9,0 x 2,1	29,91	20 x 5	30,52
M 2,5x0,45	3	2,05	40 x 9,0 x 2,1	29,89	20 x 5	30,52
M 2,6x0,45	3	2,10	40 x 9,0 x 2,1	29,87	25 x 9	30,50
M 3x0,35	2	2,65	40 x 9,0 x 2,7	36,17	20 x 5	30,60
M 3x0,50	**3**	**2,50**	40 x 11,0 x 2,7	15,16*	25 x 9	17,38*
M 3x0,60	3	2,40	45 x 13,0 x 3,0	39,56	20 x 5	40,30
M 3,5x0,60	3	2,90	45 x 13,0 x 3,0	24,46	25 x 9	24,84
M 3,5x0,75	3	2,75	45 x 18,0 x 3,0	42,98	25 x 9	68,21
M 4x0,50	2	3,50	45 x 13,0 x 3,4	36,04	25 x 9	30,60
M 4x0,70	**3**	**3,30**	45 x 13,0 x 3,4	15,15*	25 x 9	17,38*
M 4x0,75	3	3,25	45 x 13,0 x 3,4	32,18	20 x 7	36,83
M 4x0,80	3	3,20	45 x 13,0 x 3,4	81,42	20 x 7	104,17
M 4,5x0,50	2	4,00	50 x 12,0 x 4,9	37,83	25 x 9	45,37
M 4,5x0,75	3	3,75	50 x 16,0 x 4,9	26,23	20 x 7	24,84
M 5x0,50	2	4,50	50 x 12,0 x 4,9	36,32	20 x 5	30,60
M 5x0,75	2	4,25	50 x 14,0 x 4,9	36,18	20 x 7	31,36
M 5x0,80	**3**	**4,20**	50 x 16,0 x 4,9	16,91*	25 x 9	17,92*
M 5x0,90	3	4,10	50 x 16,0 x 4,9	36,75	25 x 9	63,45
M 5x1,00	3	4,00	50 x 16,0 x 4,9	85,98	25 x 9	102,33

	U.tà	Ø	L1 x L2 x mm	M0 €	Ø x L3 mm	C5 €
M 5,5x0,90	3	4,60	50 x 16 x 4,9	85,98	25 x 9	24,84
M 6x0,50	2	5,50	50 x 14 x 4,9	27,77	20 x 5	30,60
M 6x0,75	2	5,25	50 x 14 x 4,9	23,39	25 x 9	27,39
M 6x1,00	**3**	**5,00**	50 x 19 x 4,9	17,10*	25 x 9	19,30*
M 6x1,25	3	4,75	50 x 19 x 4,9	134,35	25 x 9	108,33
M 7x0,75	2	6,25	50 x 14 x 4,9	28,35	25 x 9	32,33
M 7x1,00	**3**	**6,00**	50 x 19 x 4,9	22,54*	25 x 9	25,52*
M 7x1,25	3	5,75	50 x 19 x 4,9	98,01	25 x 9	130,19
M 8x0,50	2	7,50	50 x 16 x 4,9	33,30	25 x 9	32,33
M 8x0,75	2	7,25	50 x 16 x 4,9	28,75	25 x 9	27,80
M 8x1,00	2	7,00	56 x 18 x 4,9	21,26*	25 x 9	27,80*
M 8x1,25	**3**	**6,80**	56 x 22 x 4,9	18,69*	25 x 9	19,71*
M 8x1,50	3	6,50	56 x 22 x 4,9	95,35	25 x 9	116,42
M 9x1,00	2	8,00	63 x 18 x 5,5	31,49	25 x 9	39,21
M 9x1,25	**3**	**7,80**	63 x 22 x 5,5	25,37*	25 x 9	29,12*
M 10x0,50	2	9,50	63 x 18 x 5,5	51,07	30 x 10	94,01
M 10x0,75	2	9,25	63 x 18 x 5,5	44,33	30 x 11	39,22
M 10x1,00	2	9,00	63 x 18 x 5,5	25,01	38 x 10	32,33
M 10x1,25	2	8,80	70 x 24 x 5,5	23,29	38 x 10	32,34
M 10x1,50	**3**	**8,50**	70 x 24 x 5,5	24,07*	38 x 10	22,56*
M 11x0,75	2	10,25	63 x 18 x 6,2	80,48	30 x 11	128,97
M 11x1,00	2	10,00	63 x 18 x 6,2	40,99	30 x 11	44,02
M 11x1,25	2	9,75	63 x 20 x 6,2	40,99	30 x 11	45,15
M 11x1,50	**3**	**9,50**	70 x 24 x 6,2	51,49	38 x 10	33,25
M 12x0,75	2	11,25	70 x 20 x 7,0	40,72	38 x 10	45,76
M 12x1,00	2	11,00	70 x 20 x 7,0	40,97	38 x 10	39,21
M 12x1,25	2	10,75	70 x 20 x 7,0	40,84	38 x 10	39,21
M 12x1,50	2	10,50	70 x 20 x 7,0	37,68*	38 x 10	38,18*
M 12x1,75	**3**	**10,20**	75 x 29 x 7,0	30,33*	38 x 14	32,64*
M 13x0,75	2	12,25	70 x 20 x 9,0	82,71	38 x 10	121,66
M 13x1,00	2	12,00	70 x 20 x 9,0	63,98	38 x 10	50,20
M 13x1,25	2	11,75	70 x 20 x 9,0	66,02	38 x 10	83,39
M 13x1,50	2	11,50	70 x 20 x 9,0	62,91	38 x 10	50,17
M 13x1,75	**3**	**11,25**	70 x 20 x 9,0	81,68	38 x 14	75,67
M 14x0,75	2	13,25	70 x 20 x 9,0	64,26	38 x 10	51,51
M 14x1,00	2	13,00	70 x 20 x 9,0	63,63	38 x 10	49,57
M 14x1,25	2	12,80	70 x 20 x 9,0	47,47*	38 x 10	44,13*
M 14x1,50	2	12,50	70 x 20 x 9,0	40,67	38 x 10	44,13
M 14x1,75	2	12,25	70 x 20 x 9,0	83,51	38 x 14	187,47
M 14x2,00	**3**	**12,00**	80 x 30 x 9,0	39,05*	38 x 14	35,61*
M 15x1,00	2	14,00	70 x 20 x 9,0	68,99	45 x 14	66,76
M 15x1,25	2	13,75	70 x 20 x 9,0	98,51	45 x 14	113,94
M 15x1,50	2	13,50	70 x 20 x 9,0	69,67	45 x 14	64,19
M 15x2,00	**3**	**13,00**	80 x 30 x 9,0	100,91	45 x 14	98,63
M 16x1,00	2	15,00	70 x 20 x 9,0	69,40	45 x 14	64,18
M 16x1,25	2	14,75	70 x 20 x 9,0	69,82	45 x 14	68,59
M 16x1,50	2	14,50	70 x 20 x 9,0	50,01*	45 x 14	52,33*
M 16x2,00	**3**	**14,00**	80 x 32 x 9,0	46,83*	45 x 18	41,77*
M 17x1,00	2	16,00	70 x 20 x 9,0	149,53	45 x 14	116,74
M 17x1,25	2	15,75	70 x 20 x 9,0	149,53	45 x 14	121,42
M 17x1,50	2	15,50	70 x 20 x 9,0	149,53	45 x 14	116,74
M 18x1,00	2	17,00	80 x 22 x 11,0	74,89	45 x 14	60,21
M 18x1,25	2	16,75	80 x 22 x 11,0	77,74	45 x 14	64,34

* Consultare il prezzo delle serie di maschi e filiere a sinistra disponibili a Pag.188

* Sovrapprezzo per le filiere regolabili pari al 20% del prezzo.

SERIE DI MASCHI E FILIERE PER FILETTARE A MANO HSS

M MF — DIN 13 — 60° — p — Ref. M0

HSS	(M) DIN 352	(MF) DIN 2181	TOL 6H

Ref. C5

HSS	DIN 223	TOL 6g

	U.tà	Ø	L1 x L2 x ⊠ mm	M0 €	Ø x L3 mm	C5 €
M 18x1,50	2	16,50	80 x 22 x 11,0	51,02	45 x 14	54,42
M 18x2,00	2	16,00	80 x 22 x 11,0	75,58*	45 x 14	61,83*
M 18x2,50	**3**	**15,50**	95 x 40 x 11,0	62,22*	45 x 18	47,44*
M 19x1,00	2	18,00	80 x 22 x 11,0	217,00	45 x 14	147,59
M 19x1,25	2	17,75	80 x 22 x 11,0	217,00	45 x 14	173,60
M 19x1,50	2	17,50	80 x 22 x 11,0	217,00	45 x 14	147,59
M 19x2,00	2	17,00	80 x 22 x 11,0	241,64	45 x 14	175,35
M 20x1,00	2	19,00	80 x 22 x 12,0	97,32	45 x 14	60,21
M 20x1,25	2	18,75	80 x 22 x 12,0	92,96	45 x 14	178,32
M 20x1,50	2	18,50	80 x 22 x 12,0	55,27	45 x 14	52,95
M 20x2,00	2	18,00	80 x 22 x 12,0	97,15*	45 x 14	60,21*
M 20x2,50	**3**	**17,50**	95 x 40 x 12,0	68,68*	45 x 18	46,14*
M 21x1,00	2	20,00	80 x 22 x 12,0	272,79	45 x 14	74,24
M 21x1,25	2	19,75	80 x 22 x 12,0	272,79	45 x 14	188,04
M 21x1,50	2	19,50	80 x 22 x 12,0	107,37	45 x 14	94,19
M 22x1,00	2	21,00	80 x 22 x 14,5	96,94	55 x 16	110,60
M 22x1,25	2	20,75	80 x 22 x 14,5	110,94	55 x 16	180,24
M 22x1,50	2	20,50	80 x 22 x 14,5	80,66	55 x 16	95,14
M 22x2,00	2	20,00	80 x 22 x 14,5	94,26*	55 x 16	105,86*
M 22x2,50	**3**	**19,50**	100 x 40 x 14,5	96,05*	55 x 22	84,62*
M 23x1,00	2	22,00	80 x 22 x 14,5	280,43	55 x 16	195,56
M 23x1,50	2	21,50	80 x 22 x 14,5	126,26	55 x 16	216,67
M 24x1,00	2	23,00	90 x 22 x 14,5	124,64	55 x 16	107,87
M 24x1,25	2	22,75	90 x 22 x 14,5	125,80	55 x 16	143,21
M 24x1,50	2	22,50	90 x 22 x 14,5	95,51	55 x 16	96,94
M 24x2,00	2	22,00	90 x 22 x 14,5	128,44*	55 x 16	107,87*
M 24x3,00	**3**	**21,00**	110 x 50 x 14,5	111,29*	55 x 22	84,62*
M 25x1,00	2	24,00	90 x 22 x 14,5	187,09	55 x 16	163,71
M 25x1,25	2	23,75	90 x 22 x 14,5	328,70	55 x 16	215,55
M 25x1,50	2	23,50	90 x 22 x 14,5	193,92	55 x 16	140,82
M 25x2,00	2	23,00	90 x 22 x 14,5	388,97	55 x 16	209,57
M 26x1,00	2	25,00	90 x 22 x 14,5	188,45	55 x 16	162,26
M 26x1,50	2	24,50	90 x 22 x 14,5	182,77	55 x 16	130,81
M 26x2,00	2	24,00	90 x 22 x 14,5	189,29	55 x 16	183,36
M 27x1,00	2	26,00	90 x 22 x 16,0	189,31	65 x 18	145,96
M 27x1,50	2	25,50	90 x 22 x 16,0	192,82	65 x 18	146,59
M 27x2,00	2	25,00	90 x 22 x 16,0	230,07*	65 x 18	159,43*
M 27x3,00	**3**	**24,00**	110 x 50 x 16,0	144,87*	65 x 25	128,35*
M 28x1,00	2	27,00	90 x 22 x 16,0	227,61	65 x 18	188,68
M 28x1,50	2	26,50	90 x 22 x 16,0	203,06	65 x 18	132,89
M 28x2,00	2	26,00	90 x 22 x 16,0	226,30	65 x 18	186,83
M 30x1,00	2	29,00	90 x 22 x 18,0	227,62	65 x 18	154,68
M 30x1,50	2	28,50	90 x 22 x 18,0	216,40	65 x 18	157,08
M 30x2,00	2	28,00	90 x 22 x 18,0	249,48	65 x 18	141,38
M 30x3,00	2	27,00	125 x 56 x 18,0	243,88*	65 x 25	113,39*
M 30x3,50	**3**	**26,50**	125 x 50 x 18,0	183,58*	65 x 25	118,46*
M 32x1,00	2	31,00	90 x 22 x 18,0	332,84	65 x 18	213,78
M 32x1,50	2	30,50	90 x 22 x 18,0	267,12	65 x 18	141,37
M 32x2,00	2	30,00	90 x 22 x 18,0	333,40	65 x 18	113,40
M 33x1,00	2	32,00	100 x 25 x 20,0	505,88	65 x 18	230,99
M 33x1,50	2	31,50	100 x 25 x 20,0	275,56	65 x 18	145,43
M 33x2,00	2	31,00	100 x 25 x 20,0	370,90	65 x 18	145,43
M 33x3,00	2	30,00	125 x 56 x 20,0	429,96*	65 x 25	133,40*
M 33x3,50	**3**	**29,5**	125 x 50 x 20,0	315,78*	65 x 25	118,43*
M 34x1,50	2	32,5	100 x 25 x 22,0	327,32	65 x 18	150,10
M 34x2,00	2	32,0	100 x 25 x 22,0	359,55	65 x 18	342,62
M 35x1,50	2	33,5	100 x 25 x 22,0	314,81	65 x 18	141,37
M 35x2,00	2	33,0	100 x 25 x 22,0	396,48	65 x 18	285,90
M 36x1,50	2	34,5	100 x 25 x 22,0	350,85	65 x 18	141,38
M 36x2,00	2	34,0	125 x 33 x 22,0	393,10	65 x 18	141,38
M 36x3,00	2	33,0	125 x 33 x 22,0	427,88*	65 x 25	141,37*
M 36x4,00	**3**	**32,0**	150 x 53 x 22,0	391,73*	65 x 25	118,46*
M 38x1,50	2	36,5	100 x 25 x 22,0	405,50	75 x 20	227,93
M 38x2,00	2	36,0	125 x 25 x 22,0	491,91	75 x 20	332,74
M 39x1,50	2	37,5	110 x 25 x 24,0	486,98	75 x 20	221,48
M 39x2,00	2	37,0	125 x 23 x 24,0	486,98	75 x 20	221,46
M 39x3,00	2	36,0	125 x 33 x 24,0	481,49*	75 x 30	221,48*
M 39x4,00	**3**	**35,0**	150 x 53 x 24,0	443,31*	75 x 30	183,58*
M 40x1,50	2	38,5	110 x 25 x 24,0	476,20	75 x 20	252,16
M 40x2,00	2	38,0	125 x 33 x 24,0	475,83	75 x 20	258,29
M 40x3,00	2	37,0	125 x 33 x 24,0	474,07	75 x 30	221,46
M 42x1,50	2	40,5	110 x 25 x 24,0	475,54	75 x 20	221,48
M 42x2,00	2	40,0	125 x 33 x 24,0	508,05	75 x 20	172,69
M 42x3,00	2	39,0	125 x 33 x 24,0	503,26	75 x 30	221,48
M 42x4,50	**3**	**37,5**	150 x 53 x 24,0	622,17	75 x 30	183,59
M 45x1,50	2	43,5	110 x 25 x 29,0	549,82	90 x 22	353,85
M 45x2,00	2	43,0	125 x 33 x 29,0	559,98	90 x 22	351,31
M 45x3,00	2	42,0	125 x 33 x 29,0	559,98	90 x 36	351,28
M 45x4,50	**3**	**40,5**	160 x 60 x 29,0	718,25	90 x 36	316,75
M 48x1,50	2	46,5	140 x 33 x 29,0	619,63	90 x 22	351,31
M 48x2,00	2	46,0	140 x 33 x 29,0	677,25	90 x 22	351,30
M 48x3,00	2	45,0	140 x 33 x 29,0	678,59	90 x 36	351,28
M 48x5,00	**3**	**43,0**	180 x 65 x 29,0	821,55	90 x 36	304,58
M 50x1,50	2	48,5	140 x 33 x 29,0	671,32	90 x 22	353,85
M 50x3,00	2	57,0	140 x 33 x 29,0	721,45	90 x 22	339,49
M 52x1,50	2	50,5	140 x 33 x 32,0	705,65	90 x 22	318,09
M 52x2,00	2	50,0	140 x 33 x 32,0	869,88	90 x 22	369,66
M 52x3,00	2	49,0	140 x 33 x 32,0	877,67	90 x 36	403,40
M 52x5,00	**3**	**47,0**	180 x 65 x 32,0	1.040,83	90 x 36	315,49
M 56x4,00	**2**	**52,0**	180 x 47 x 32,0	1.031,04	105 x 36	
M 56x5,50	**3**	**50,5**	200 x 85 x 35,0	1.376,26	105 x 36	
M 60x5,50	**3**	**54,5**	200 x 85 x 35,0	1.790,02	105 x 36	
M 64x4,00	**2**	**60,0**	180 x 50 x 35,0	1.683,20	120 x 36	
M 64x6,00	**3**	**58,0**	220 x 90 x 39,0	2.078,47	120 x 36	
M 68x6,00	**3**	**62,0**	220 x 90 x 39,0	2.535,73	120 x 36	
M 72x6,00	**3**	**66,0**	235 x 90 x 39,0	2.747,16	120 x 36	

FILIERE CON MISURA ESTERNA IN POLLICI

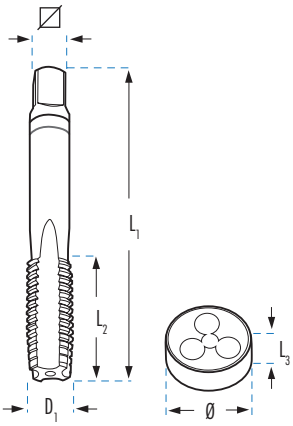
	Ø x L3 mm	C5 €		Ø x L3 mm	C5 €
M 3x0,50	25,4 x 9,5	23,63	M 8x1,25	38,1 x 12,7	32,14
M 4x0,70	25,4 x 9,5	23,63	M 10x1,50	25,4 x 9,50	29,70
M 5x0,80	25,4 x 9,5	23,45	M 10x1,50	38,1 x 12,7	39,86
M 6x1,00	25,4 x 9,5	23,63	M 12x1,75	25,4 x 9,50	29,42
M 8x1,25	25,4 x 9,5	23,66	M 12x1,75	38,1 x 12,7	40,20

* Consultare il prezzo delle serie di maschi e filiere a sinistra disponibili a Pag.188
* Sovrapprezzo per le filiere regolabili pari al 20% del prezzo.

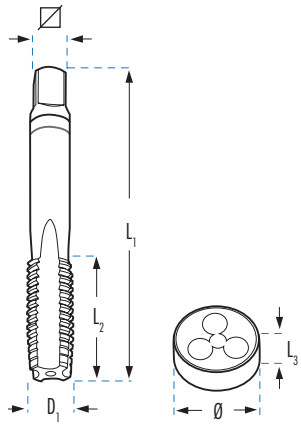
SERIE DI MASCHI E FILIERE PER FILETTARE A MANO HSS

UNC	Ref. M0	HSS	DIN 351	TOL 2B
60° p	Ref. C5	HSS	DIN 223	TOL 2a

UNF	Ref. M0	HSS	DIN 2181	TOL 2B
60° p	Ref. C5	HSS	DIN 223	TOL 2a









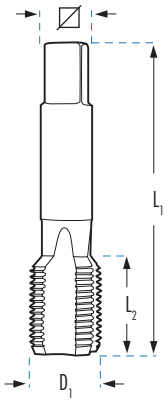
	U.tà	D1 mm	Ø	L1 x L2 x ⊠ mm	M0 €	Ø x L3 mm	C5 €
UNC nº1-64h.	3	1,85	1,50	36x8x2,1	**116,08**	16x5	
UNC nº2-56h.	3	2,18	1,80	36x9x2,1	**82,03**	16x5	
UNC nº3-48h.	3	2,51	2,10	40x9x2,1	**82,03**	16x5	
UNC nº4-40h.	3	2,84	2,25	40x11x2,7	**60,29**	20x5	**38,91**
UNC nº5-40h.	3	3,17	2,60	40x11x2,7	**60,52**	20x5	**38,91**
UNC nº6-32h.	3	3,50	2,75	45x13x3,0	**60,52**	20x7	**38,91**
UNC nº8-32h.	3	4,17	3,50	45x13x3,4	**60,52**	20x7	**38,91**
UNC nº10-24h.	3	4,83	3,90	50x16x4,9	**60,52**	20x7	**38,91**
UNC nº12-24h.	3	5,49	4,50	50x19x4,9	**60,52**	20x7	**38,91**
UNC 1/4-20h.	3	6,35	5,10	50x19x4,9	**32,60***	20x7	**32,52***
UNC 5/16-18h.	3	7,94	6,60	56x22x4,9	**35,89***	25x9	**36,01***
UNC 3/8-16h.	3	9,52	8,00	70x24x5,5	**40,19***	30x11	**38,00***
UNC 7/16-14h.	3	11,11	9,40	70x24x6,2	**49,84**	38x14	**43,81**
UNC 1/2-13h.	3	12,70	10,75	75x29x7,0	**66,92***	38x14	**48,77***
UNC 9/16-12h.	3	14,28	12,20	80x30x9,0	**78,99**	38x14	**53,85**
UNC 5/8-11h.	3	15,87	13,50	80x32x9,0	**89,50***	45x18	**53,66***
UNC 3/4-10h.	3	19,05	16,50	95x40x11,0	**118,75***	45x18	**62,97***
UNC 7/8-9h.	3	22,22	19,50	100x40x14,5	**146,19**	55x22	**93,42**
UNC 1"-8h.	3	25,40	22,25	110x50x14,5	**176,26***	55x22	**93,42***
UNC 1.1/8-7h.	3	28,57	25,00	125x56x18,0	**361,43**	65x25	**151,42**
UNC 1.1/4-7h.	3	31,75	28,00	125x56x18,0	**428,17**	65x25	**151,42**
UNC 1.3/8-6h.	3	34,92	30,75	150x63x22,0	**661,99**	65x25	**151,42**
UNC 1.1/2-6h.	3	38,10	34,00	150x63x24,0	**646,08**	75x30	**151,43**
UNC 2"-4,5h.	3	50,80	45,00	180x75x32,0	**1.324,27**	90x36	

	U.tà	D1 mm	Ø	L1 x L2 x ⊠ mm	M0 €	Ø x L3 mm	C5 €
UNF nº2-64h.	2	2,18	1,85	36x8x2,1	**72,14**		
UNF nº3-56h.	2	2,51	2,15	40x9x2,1	**61,34**		
UNF nº4-48h.	2	2,84	2,35	40x9x2,7	**36,87**	20x5	**38,91**
UNF nº5-44h.	2	3,17	2,70	45x10x2,7	**36,87**	20x5	**38,91**
UNF nº6-40h.	2	3,50	2,95	45x16x3,0	**36,51**	20x5	**38,91**
UNF nº8-36h.	2	4,17	3,50	50x12x3,4	**36,51**	20x7	**38,91**
UNF nº10-32h.	2	4,83	4,10	50x12x4,9	**36,51**	20x7	**38,91**
UNF nº12-28h.	2	5,49	4,60	50x12x4,9	**36,41**	20x7	**38,91**
UNF 1/4-28h.	2	6,35	5,50	50x14x4,9	**22,30***	25x9	**32,52***
UNF 5/16-24h.	2	7,94	6,90	56x22x4,9	**22,11***	25x9	**36,03***
UNF 3/8-24h.	2	9,52	8,50	63x20x5,5	**32,02***	38x10	**37,40***
UNF 7/16-20h.	2	11,11	9,90	63x20x6,2	**37,12**	38x10	**43,82**
UNF 1/2-20h.	2	12,70	11,50	70x22x7,0	**39,62***	38x10	**48,77***
UNF 9/16-18h.	2	14,29	12,90	70x22x9,0	**48,77**	38x10	**52,64**
UNF 5/8-18h.	2	15,87	14,50	70x22x9,0	**55,57***	45x14	**53,66***
UNF 3/4-16h.	2	19,05	17,50	80x22x11,0	**72,16***	45x14	**62,97***
UNF 7/8-14h.	2	22,22	20,40	80x22x14,5	**95,94***	55x16	**93,42***
UNF 1"-12h.	2	25,40	23,25	90x22x16,0	**142,07**	55x16	**93,42**
UNS 1"-14h.	2	25,40	23,60	90x22x14,5	**160,58***	55x16	**121,88***
UNF 1.1/8-12h.	2	28,57	26,50	90x22x18,0	**171,33**	65x18	**151,43**
UNF 1.1/4-12h.	2	31,75	29,50	90x22x20,0	**326,28**	65x18	**151,42**
UNF 1.3/8-12h.	2	34,92	32,80	125x35x22,0	**247,50**	65x18	**151,42**
UNF 1.1/2-12h.	2	38,10	36,00	125x40x22,0	**410,37**	75x20	**237,88**
UNF 2"-12h.	2	50,80	48,38	140x40x29,0	**1.289,47**	90x22	

* Consultare il prezzo delle serie di maschi e filiere a sinistra disponibili a Pag.188

SERIE DI MASCHI E FILIERE PER FILETTARE A MANO HSS

BSP (GAS) — Ref. M0 | DIN 5157 | TOL ISO 228 | Ref. C5 | DIN 5158 | Ref. M0T / Ref. M0X | DIN 5157 | TOL 6H | Ref. C5T / Ref. C5X | DIN 5158 | TOL 6g

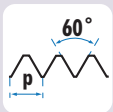






					M0		C5				M0T	C5T	M0X	C5X
	U.tà	D1 mm	Ø	L1 x L2 x ▱ mm	HSS €		Ø x L3 mm	HSS €		U.tà	HSS TiN €	HSS TiN €	HSSCo OX €	HSSCo OX €
G 1/8-28h.	2	9,73	8,80	63 x 20 x 5,5	33,49*		38 x 10	45,28*	G 1/8-28 h.	2	71,43	70,01	82,05	54,39
G 1/4-19h.	2	13,16	11,80	70 x 22 x 9,0	35,76*		38 x 10	42,43*	G 1/4-19 h.	2	96,73	75,55	109,78	56,89
G 3/8-19h.	2	16,66	15,25	70 x 22 x 9,0	52,39*		45 x 14	57,45*	G 3/8-19 h.	2	139,15	81,50	160,79	69,36
G 1/2-14h.	2	20,95	19,00	80 x 22 x 12,0	82,26*		45 x 14	57,45*	G 1/2-14 h.	2	233,36	92,26	258,15	73,86
G 5/8-14h.	2	22,91	21,00	80 x 22 x 14,5	97,69*		55 x 16	91,12*						
G 3/4-14h.	2	26,44	24,50	90 x 22 x 16,0	120,14*		55 x 16	91,11*	G 3/4-14 h.	2	270,33	150,30	327,17	110,24
G 7/8-14h.	2	30,20	28,25	90 x 22 x 18,0	192,96		65 x 18	117,18						
G 1"-11h.	2	33,25	30,75	100 x 25 x 20,0	180,07*		65 x 18	117,17*	G 1" -11 h.	2	425,73	200,77	486,25	142,68
G 1.1/8-11h.	2	37,90	35,50	125 x 40 x 22,0	362,65		75 x 20	181,01						
G 1.1/4-11h.	2	41,91	39,50	125 x 40 x 24,0	289,67*		75 x 20	181,02*						
G 1.3/8-11h.	2	44,32	42,00	125 x 40 x 29,0	480,54		90 x 22	269,32						
G 1.1/2-11h.	2	47,80	45,25	140 x 40 x 29,0	425,94		90 x 22	269,32						
G 1.3/4-11h.	2	53,75	51,25	140 x 40 x 32,0	775,43		105 x 22	280,06						
G 2"-11h.	2	59,61	57,00	160 x 40 x 35,0	693,98		105 x 22	300,75						
G 2.1/4-11h.	2	65,71	63,00	160 x 40 x 39,0	1.632,73		105 x 22							
G 2.1/2-11h.	2	75,18	72,50	160 x 40 x 39,0	1.931,99		120 x 22							
G 2.3/4-11h.	2	81,53	79,00	160 x 40 x 39,0	2.817,62		120 x 22							
G 3"-11h.	2	87,88	85,50	160 x 40 x 39,0	2.932,55		150 x 25							
G 4"-11h.	2	113,03	110,50	180 x 45 x 44,0	4.447,69		180 x 25							

UNF 3B



Ref. M0 | HSS | DIN 2181 | TOL 3B

	U.tà	D1 mm	Ø	L1 x L2 x ▱ mm	M0-3B €
UNF nº4-48-3B	2	2,84	2,35	40x9x2,7	57,26
UNF nº5-44-3B	2	3,17	2,70	45x10x2,7	57,26
UNF nº6-40-3B	2	3,50	2,95	45x16x3,0	54,53
UNF nº8-36-3B	2	4,17	3,50	50x12x3,4	54,53
UNF nº10-32-3B	2	4,83	4,10	50x12x4,9	54,53
UNF nº12-28-3B	2	5,49	4,60	50x12x4,9	57,26
UNF 1/4-28-3B	2	6,35	5,50	50x14x4,9	41,77
UNF 5/16-24-3B	2	7,94	6,90	56x22x4,9	44,71
UNF 3/8-24-3B	2	9,52	8,50	63x20x5,5	51,62
UNF 7/16-20-3B	2	11,11	9,90	63x20x6,2	68,52
UNF 1/2-20-3B	2	12,70	11,50	70x22x7,0	70,09

* Consultare il prezzo delle serie di maschi e filiere a sinistra disponibili a Pag.188

SERIE DI MASCHI E FILIERE PER FILETTARE A MANO HSS

BSW — DIN BS84 55° — Ref. M0 — HSS — DIN 351 — TOL Classe 2

DIN BS84 55° — Ref. C5 — HSS — DIN 223

BSF — Ref. M0 — HSS — DIN 5157 — TOL ISO 228

DIN BS84 55° — Ref. C5 — HSS — DIN 223





	U.tà	D1 mm	Ø	L1 x L2 x ⊠ mm	M0 €	Ø x L3 mm	C5 €
W 1/16-60h.	3	1,59	1,15	32x8x2,1	41,49	16x5	83,35
W 3/32-48h.	3	2,38	1,80	40x9x2,1	45,28	20x5	32,23
W 1/8-40h.	3	3,17	2,55	40x14x2,7	32,53*	25x9	32,52 *
W 5/32-32h.	3	3,97	3,10	45x17x3,4	30,89	25x9	32,52
W 3/16-24h.	3	4,76	3,60	50x19x4,9	30,90	25x9	32,52
W 7/32-24h.	3	5,55	4,40	50x19x4,9	30,50	25x9	32,53
W 1/4-20h.	3	6,35	5,10	50x20x4,9	30,78*	25x9	32,52 *
W 5/16-18h.	3	7,94	6,50	56x20x4,9	35,80*	25x9	36,03 *
W 3/8-16h.	3	9,52	7,90	63x22x5,5	44,25*	38x10	38,91 *
W 7/16-14h.	3	11,11	9,25	70x22x6,2	47,51	38x10	43,81
W 1/2-12h.	3	12,70	10,50	75x25x7,0	70,11	38x14	48,78
W 9/16-12h.	3	14,29	12,00	80x26x9,0	74,19	38x14	58,05
W 5/8-11h.	3	15,87	13,40	80x27x9,0	85,31*	45x18	58,93 *
W 11/16-11h.	3	17,46	15,25	95x32x11,0	251,42	45x18	59,16
W 3/4-10h.	3	19,05	16,50	95x32x11,0	113,55*	45x18	62,99 *
W 7/8-9h.	3	22,22	19,25	100x32x14,5	140,01*	55x22	93,41 *
W 1"- 8h.	3	25,40	21,75	110x36x14,5	229,66*	55x22	93,41 *
W 1.1/8-7h.	3	28,57	24,75	125x40x18,0	289,53	65x25	174,52
W 1.1/4-7h.	3	31,75	27,75	125x40x18,0	321,91	65x25	174,59
W 1.3/8-6h.	3	34,92	30,50	150x50x22,0	441,52	65x25	177,81
W 1.1/2-6h.	3	38,10	33,50	150x50x24,0	496,12	75x30	270,28
W 1.5/8-5h.	3	41,27	46,50	150x56x24,0	892,96	75x30	324,11
W 1.3/4-5h.	3	44,45	39,00	160x58x29,0	900,29	90x36	407,90
W 1.7/8-4,5h.	3	47,62	42,00	180x65x29,0	1.268,49	90x36	446,32
W 2"- 4,5h.	3	50,80	44,50	180x65x32,0	1.410,94	90x36	467,76
W 2.1/4-4h.	3	57,15	50,00	200x85x35,0	2.626,83	105x36	
W 2.1/2-4h.	3	63,50	56,50	220x85x39,0	3.195,59	120x36	
W 2.3/4-3,5h.	3	69,85	62,00	250x90x44,0	4.562,91	120x36	
W 3"- 3,5h.	3	76,20	68,00	250x90x44,0	5.278,79	140x36	

	U.tà	D1 mm	Ø	L1 x L2 x ⊠ mm	M0 €	Ø x L3 mm	C5 €
BSF 3/16-32h.	2	4,76	4,0	50x19x4,9	30,60	20x7	32,52
BSF 1/4-26h.	2	6,35	5,2	50x20x4,9	30,37	20x7	32,53
BSF 5/16-22h.	2	7,94	6,6	56x20x4,9	30,49	25x9	36,03
BSF 3/8-20h.	2	9,52	8,1	63x22x5,5	42,98	30x11	41,81
BSF 7/16-18h.	2	11,11	9,5	70x22x6,2	40,73	30x11	43,82
BSF 1/2-16h.	2	12,70	11,0	75x25x7,0	57,46	38x10	59,24
BSF 9/16-16h.	2	14,29	12,5	80x26x9,0	74,32	38x10	65,01
BSF 5/8-14h.	2	15,88	14,0	80x26x9,0	71,53	45x14	86,76
BSF 3/4-12h.	2	19,05	16,5	95x33x11,0	98,41	45x14	86,76
BSF 7/8-11h.	2	22,23	19,5	100x33x14,5	112,23	55x22	108,52
BSF 1"-10h.	2	25,40	22,5	110x40x14,5	150,20	55x22	108,52
BSF 1.1/8-9h.	2	28,57	25,5	110x40x16,0	578,66		
BSF 1.1/4-9h.	2	31,75	28,5	125x46x18,0	660,65		
BSF 1.1/2-8h.	2	38,10	34,5	150x55x22,0	1.006,87		

BSW **INOX** **TiN**

	U.tà	L1 x L2 x ⊠ mm	M0T €	Ø x L3 mm	C5T €
W 3/16-24 h.	3	50 x 19 x 4,90	58,69	25x9	46,33
W 1/4-20 h.	3	50 x 20 x 4,90	58,08	25x9	47,78
W 5/16-18 h	3	56 x 20 x 4,90	60,61	25x9	54,24
W 3/8-16 h.	3	63 x 22 x 5,50	80,26	38x10	48,69
W 1/2-12 h.	3	75 x 25 x 7,00	124,57	38x14	84,08



* Consultare il prezzo delle serie di maschi e filiere a sinistra disponibili a Pag.188

MASCHI E FILIERE PER FILETTARE A MANO HSS

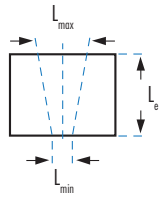
NPTF

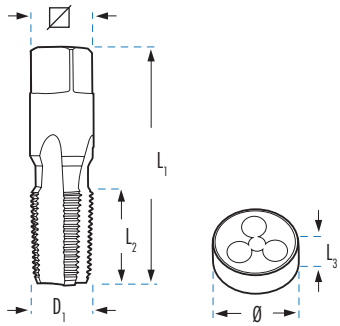
60°

Filettatura AMERICANA
Filettatura conica a tenuta stagna

Ref. M0 — HSS

Ref. C5 — HSS — DIN 223









	U.tà	D1 mm	Ø	L min x L max mm	L_e mm	L1 x L2 x ⊠ mm	M0 €	Ø x L3 mm	C5 €
NPTF 1/8-27 h.	1	10,22	8,5	8,30 x 8,76	12,0	54 x 19 x 8,0	**90,54**	38 x 10	**197,73**
NPTF 1/4-18 h.	1	13,58	11,0	10,70 x 11,40	17,5	62 x 27 x 11,0	**126,90**	38 x 15	**197,73**
NPTF 3/8-18 h.	1	17,02	14,5	14,20 x 14,84	17,6	65 x 27 x 13,0	**175,19**	45 x 14	**258,19**
NPTF 1/2-14 h.	1	21,21	17,8	17,40 x 18,33	22,8	80 x 35 x 13,0	**244,98**	45 x 20	**258,19**
NPTF 3/4-14 h.	1	26,56	23,0	22,80 x 23,68	23,0	83 x 35 x 17,0	**374,47**	55 x 22	**492,06**
NPTF 1"-11,5 h.	1	33,19	29,0	28,60 x 29,72	27,4	110 x 38 x 20,0	**498,78**		

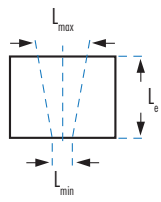
NPT

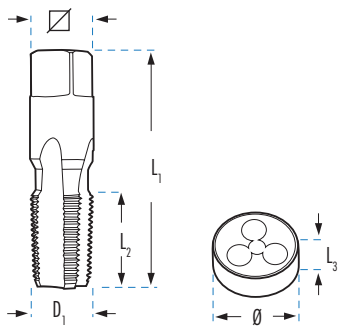
60°

Filettatura AMERICANA
Filettatura conica non a tenuta stagna (Briggs)

Ref. M0 — HSS

Ref. C5 — HSS — DIN 223







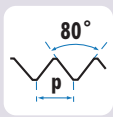


	U.tà	D1 mm	Ø		L min x L max mm	L_e mm	L1 x L2 x ⊠ mm	M0 €	Ø x L3 mm	C5 €
NPT 1/16-27 h.	1	7,89	6,20	EMNPT1/16	6,00 x 6,38	12,0	54 x 18 x 6,0	**37,89**	25 x 9	**82,00**
NPT 1/8-27 h.	1	10,24	8,50	EMNPT1/8	8,30 x 8,73	12,0	65 x 19 x 5,5	**39,79**	30 x 11	**88,04**
NPT 1/4-18 h.	1	13,62	11,00	EMNPT1/4	10,70 x 11,35	17,5	62 x 27 x 11,0	**55,83**	38 x 14	**104,41**
NPT 3/8-18 h.	1	17,05	14,50	EMNPT3/8	14,20 x 14,80	17,6	65 x 27 x 13,0	**77,03**	45 x 18	**130,26**
NPT 1/2-14 h.	1	21,23	17,80	EMNPT1/2	17,40 x 18,32	22,8	80 x 35 x 13,0	**107,71**	45 x 18	**135,47**
NPT 3/4-14 h.	1	26,57	23,00	-	22,80 x 23,66	23,0	83 x 35 x 17,0	**164,68**	55 x 22	**204,93**
NPT 1"-11,5 h.	1	33,23	29,00	-	28,60 x 29,69	27,4	95 x 44 x 21,0	**183,40**	65 x 25	**296,84**
NPT 1.1/4-11,5 h.	1	41,98	37,50	-	37,40 x 38,45	28,1	125 x 33 x 24,0	**300,69**	75 x 26	**346,98**
NPT 1.1/2-11,5 h.	1	48,05	44,00	-	43,40 x 44,52	28,4	140 x 33 x 29,0	**456,91**	90 x 27	**484,07**
NPT 2"-11,5 h.	1	60,09	56,00	-	55,50 x 56,56	28,4	160 x 33 x 35,0	**713,32**	105 x 36	**673,96**
NPT 2.1/2"-8h.	1	73,03	67,00	-	68,68 x 69,08	28,9	200 x 45 x 39,0	**879,98**		
NPT 3"-8h.	1	88,90	82,00	-	84,45 x 84,86	30,5	220 x 48 x 39,0	**1.236,91**		

* Vedi alesatore precedente a pag. 137

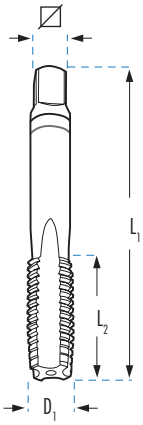
MASCHI E FILIERE PER FILETTARE A MANO HSS

PG



Ref. M0 — HSS — DIN 40430

Ref. C5 — HSS — DIN 223







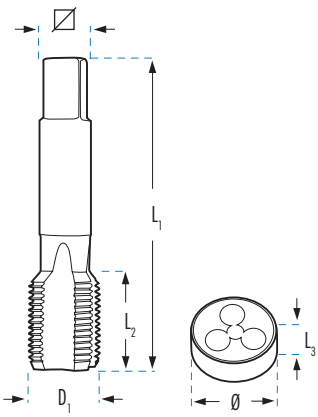
						M0		C5
		U.tà	D1 mm	Ø	L1 x L2 x ⊠ mm	€	Ø x L3 mm	€
Pg 7	20h.	1	12,5	11,50	70x20x7,0	**40,54**	38x10	**75,01**
Pg 9	18h.	1	15,2	14,00	70x20x9,0	**51,54**	38x10	**91,35**
Pg 11	18h.	1	18,6	17,25	80x22x11,0	**71,55**	45x14	**91,36**
Pg 13,5	18h.	1	20,4	19,00	80x22x12,0	**78,48**	45x14	**91,36**
Pg 16	18h.	1	22,5	21,25	80x22x14,5	**94,25**	55x16	**105,45**
Pg 21	16h.	1	28,3	27,00	90x22x18,0	**138,60**	65x18	**159,01**
Pg 29	16h.	1	37,0	35,50	100x25x22,0	**275,20**	65x18	**159,01**
Pg 36	16h.	1	47,0	45,50	140x32x29,0	**404,41**	90x22	**452,96**
Pg 42	16h.	1	54,0	52,50	140x36x32,0	**480,25**	105x22	**452,96**
Pg 48	16h.	1	59,3	58,00	160x36x35,0	**605,70**	105x22	**600,65**

NPSF

Filettatura AMERICANA
Filettatura cilindrica a tenuta stagna

Ref. M0 — HSS

Ref. C5 — HSS — DIN 223

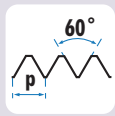






					M0		C5
	U.tà	D1 mm	Ø	L1 x L2 x ⊠ mm	€	Ø x L3 mm	€
NPSF 1/8-27 h.	1	10,05	8,75	63x18x5,5	**138,94**	38x10	**242,07**
NPSF 1/4-18 h.	1	13,35	11,30	70x20x9,0	**200,77**	38x10	**242,07**
NPSF 3/8-18 h.	1	16,78	14,70	70x20x9,0	**277,71**	45x14	**307,93**
NPSF 1/2-14 h.	1	20,87	18,20	80x22x12,0	**363,06**	45x14	**307,93**
NPSF 3/4-14 h.	1	26,23	23,50	90x22x16,0	**552,42**	55x16	**665,61**

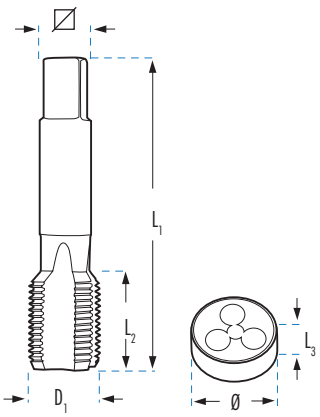
NPS (M)



Filettatura AMERICANA
Filettatura cilindrica non a tenuta stagna (Briggs)

Ref. M0 — HSS

Ref. C5 — HSS — DIN 223



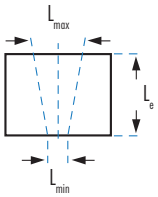


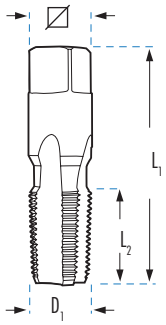


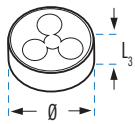
					M0		C5
	U.tà	D1 mm	Ø	L1 x L2 x ⊠ mm	€	Ø x L3 mm	€
NPS 1/8-27 h.	1	10,20	8,9	63x18x5,5	**115,13**	38x10	**201,65**
NPS 1/4-18 h.	1	13,60	11,7	70x20x9,0	**91,63**	38x10	**201,65**
NPS 3/8-18 h.	1	17,00	15,0	70x20x9,0	**126,72**	45x14	**256,59**
NPS 1/2-14 h.	1	21,20	18,6	80x22x12,0	**165,62**	45x14	**256,59**
NPS 3/4-14 h.	1	26,55	24,0	90x22x16,0	**240,55**	55x16	**508,31**
NPS 1"-11,5 h.	1	33,20	30,0	100x25x20,0	**336,34**	65x18	**472,17**

SERIE DI MASCHI E FILIERE PER FILETTARE A MANO HSS

BSPT — 55° — Ref. M0 — HSS — DIN 5157 — Ref. C5 — HSS — DIN 223





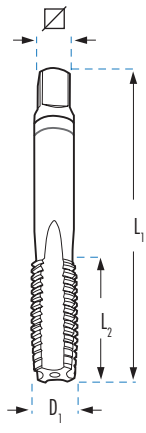


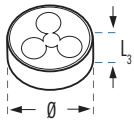




	U.tà	D1 mm	Ø	L min x L max mm	L_e mm	L1 x L2 x ☐ mm	M0 €	Ø x L3 mm	C5 €
BSPT 1/8-28 h.	1	9,73	8,30	8,00 x 8,50	10,1	65 x 19 x 5,5	40,64	30 x 11	54,03
BSPT 1/4-19 h.	1	13,16	11,00	10,70 x 11,35	15,0	70 x 25 x 9,0	49,55	38 x 14	56,36
BSPT 3/8-19 h.	1	16,66	14,50	14,15 x 14,25	15,4	70 x 25 x 9,0	68,83	45 x 16	98,51
BSPT 1/2-14 h.	1	20,95	18,10	17,60 x 18,50	20,5	80 x 31 x 12,0	96,38	55 x 22	98,51
BSPT 5/8-14 h.	1	22,91	20,00	19,50 x 20,40	22,4	80 x 36 x 14,5	179,70	55 x 19	187,14
BSPT 3/4-14 h.	1	26,44	23,50	23,00 x 24,00	21,8	85 x 33 x 16,0	160,77	55 x 22	212,41
BSPT 7/8-14 h.	1	30,20	27,25	26,65 x 28,75	24,0	100 x 36 x 18,0	344,40	65 x 22	265,75
BSPT 1"-11 h.	1	33,25	29,60	29,00 x 30,20	26,0	110 x 38 x 20,0	229,69	65 x 25	234,61

BA — 47° 30' — Ref. M0 — HSS — DIN 352 — Ref. C5 — HSS — DIN 223





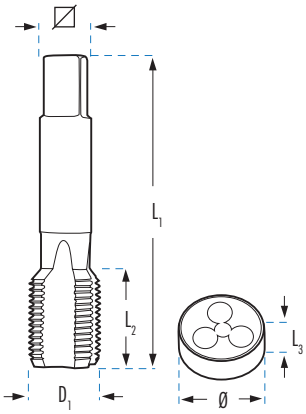




		U.tà	D1 mm	Ø	L1 x L2 x ☐ mm	M0 €	Ø x L3 mm	C5 €
BA-0	1,00	3	6,0	5,1	50 x 18 x 4,9	201,28	20 x 5	97,49
BA-1	0,90	3	5,3	4,5	50 x 18 x 4,9	201,28	20 x 5	97,49
BA-2	0,81	3	4,7	4,0	50 x 17 x 4,9	201,28	20 x 5	97,49
BA-3	0,73	3	4,1	3,4	45 x 14 x 3,4	216,32	20 x 5	97,49
BA-4	0,66	3	3,6	3,0	45 x 14 x 3,0	216,32	20 x 5	97,49
BA-5	0,59	3	3,2	2,6	45 x 14 x 3,0	258,46	20 x 5	97,49
BA-6	0,53	3	2,8	2,3	40 x 12 x 2,7	258,46	20 x 5	97,49
BA-7	0,48	3	2,5	2,0	40 x 10 x 2,1	284,17	20 x 5	97,49
BA-8	0,43	3	2,2	1,8	36 x 10 x 2,1	284,17	20 x 5	97,49

SERIE DI MASCHI E FILIERE PER FILETTARE A MANO HSS

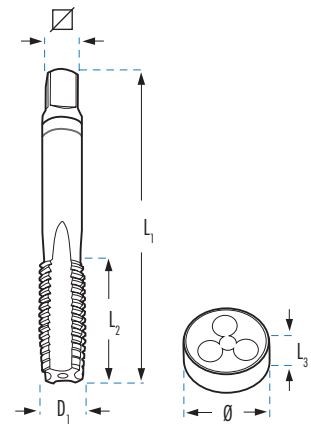
UNx8 — 60° — Filettatura AMERICANA — Ref. M0 — HSS — DIN 2181 — TOL 2B — Ref. C5 — HSS — DIN 223 — TOL 2a





	U.tà	D1 mm	Ø	L1 x L2 x mm	M0 €	Ø x L3 mm	C5 €
UN 1"1/8-8h.	2	28,57	25,40	138x65x17,0	**386,94**	65x25	**408,27**
UN 1"1/4-8h.	2	31,75	28,50	146x65x19,5	**501,80**	65x25	**408,27**
UN 1"3/8-8h.	2	34,92	31,75	154x76x21,0	**624,11**	65x25	**391,28**
UN 1"1/2-8h.	2	38,10	35,00	162x76x23,5	**714,23**	75x30	**442,96**
UN 1"5/8-8h.	2	41,27	38,10	170x80x25,0	**887,99**	75x30	**442,96**
UN 1"3/4-8h.	2	44,45	41,25	178x81x27,0	**1.106,68**	90x36	**516,78**
UN 1"7/8-8h.	2	47,62	44,45	186x90x29,0	**1.380,64**	90x36	**611,44**
UN 2"-8h.	2	50,80	47,63	194x90x31,5	**1.413,55**	90x36	**631,07**
UN 2"1/4-8h.	2	57,15	54,00	208x90x36,0			
UN 2"1/2-8h.	2	63,50	60,35	220x100x36,0			
UN 2"3/4-8h.	2	69,85	66,70	234X104X39,0			
UN 3"-8h.	2	76,20	73,05	248x115x49,0			

UNEF — 60° — Filettatura AMERICANA — Ref. M0 — HSS — DIN 2181 — TOL 2B — Ref. C5 — HSS — DIN 223 — TOL 2a





	U.tà	D1 mm	Ø	L1 x L2 x mm	M0 €	Ø x L3 mm	C5 €
UNEF 1/4-32h.	2	6,35	5,55	65x28x4,9	**37,82**	20x7	**76,37**
UNEF 5/16-32h.	2	7,94	7,15	70x30x6,0	**42,25**	25x9	**95,42**
UNEF 3/8-32h.	2	9,52	8,70	75x33x7,0	**47,49**	30x11	**108,10**
UNEF 7/16-28h.	2	11,11	10,20	81x38x6,0	**59,39**	30x11	**150,16**
UNEF 1/2-28h.	2	12,70	11,80	86x44x7,0	**70,77**	38x10	**158,81**
UNEF 9/16-24h.	2	14,29	13,20	92x44x8,0	**67,88**	38x10	**150,16**
UNEF 5/8-24h.	2	15,87	14,80	93x47x9,0	**76,47**	45x14	**248,79**
UNEF 3/4-20h.	2	19,05	17,80	108x52x11,0	**102,13**	45x14	**248,79**
UNEF 7/8-20h.	2	22,22	20,95	120x58x13,0	**138,56**	55x16	**297,08**
UNEF 1"-20h.	2	25,40	24,20	130x65x15,0	**162,03**	55x16	**292,03**

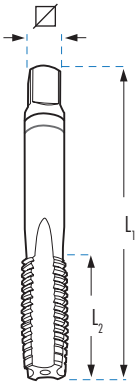
SERIE DI MASCHI E FILIERE PER FILETTARE A MANO APPLICAZIONI SPECIALI

1100 N/mm²

Ref. M0MD

HSSCo 5% | DIN 352 | OX

SPECIALE MATERIALI DURI
(≤ 1100 N/mm2=40HRc)





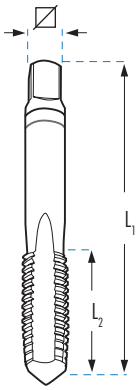
	U.tà	Ø	L1 x L2 x mm	M0MD €
M 3 x 0,50	3	2,50	40 x 11 x 2,7	40,83
M 4 x 0,70	3	3,30	45 x 13 x 3,4	40,83
M 5 x 0,80	3	4,20	50 x 17 x 4,9	42,17
M 6 x 1,00	3	5,00	50 x 19 x 4,9	43,41
M 8 x 1,25	3	6,80	56 x 20 x 4,9	49,34
M 10 x 1,50	3	8,50	70 x 22 x 5,5	63,35
M 12 x 1,75	3	10,20	75 x 24 x 7,0	90,68
M 14 x 2,00	3	12,00	80 x 26 x 9,0	107,35
M 16 x 2,00	3	14,00	80 x 27 x 9,0	142,63
M 18 x 2,50	3	15,50	95 x 30 x 11,0	219,34
M 20 x 2,50	3	17,50	95 x 32 x 12,0	243,53

1400 N/mm²

Ref. M0C

HSS PM | TiAlSiN

SPECIALE MATERIALI MOLTO DURI
(≤1400 N/mm2=44HRc)





	U.tà	Ø	L1 x L2 x mm	M0C €
M 3 x 0,50	3	2,50	40 x 11 x 2,7	88,86
M 4 x 0,70	3	3,30	45 x 13 x 3,4	95,87
M 5 x 0,80	3	4,20	50 x 17 x 4,9	97,07
M 6 x 1,00	3	5,00	50 x 19 x 4,9	97,07
M 8 x 1,25	3	6,80	56 x 20 x 4,9	109,41
M 10 x 1,50	3	8,50	70 x 22 x 5,5	135,24
M 12 x 1,75	3	10,20	75 x 24 x 7,0	164,41
M 14 x 2,00	3	12,00	80 x 26 x 9,0	197,24
M 16 x 2,00	3	14,00	80 x 27 x 9,0	241,70
M 18 x 2,50	3	15,50	95 x 30 x 11,0	335,12
M 20 x 2,50	3	17,50	95 x 32 x 12,0	368,82

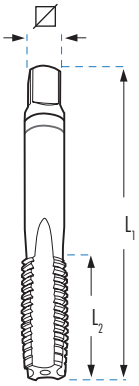
Al

Ref. M0AL

HSS | BRILLANTE



SPECIALE ALLUMINIO





	U.tà	Ø	L1 x L2 x mm	M0AL €
M 3 x 0,50	3	2,50	40 x 11 x 2,7	31,80
M 4 x 0,70	3	3,30	45 x 13 x 3,4	30,87
M 5 x 0,80	3	4,20	50 x 17 x 4,9	32,71
M 6 x 1,00	3	5,00	50 x 19 x 4,9	32,71
M 8 x 1,25	3	6,80	56 x 20 x 4,9	40,15
M 10 x 1,50	3	8,50	70 x 22 x 5,5	49,03
M 12 x 1,75	3	10,20	75 x 24 x 7,0	69,02
M 14 x 2,00	3	12,00	80 x 26 x 9,0	79,32
M 16 x 2,00	3	14,00	80 x 27 x 9,0	112,59
M 18 x 2,50	3	15,50	95 x 30 x 11,0	149,21
M 20 x 2,50	3	17,50	95 x 32 x 12,0	168,20

SERIE DI MASCHI E FILIERE PER FILETTARE A MANO INOX

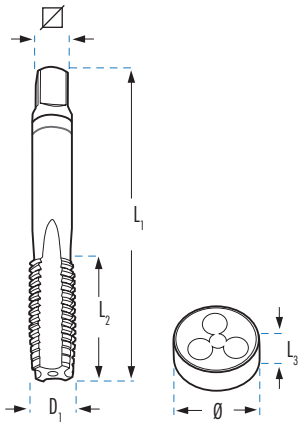
M **INOX**

Ref. M0T
Ref. M0X

DIN 352 | TOL 6H | TiN

Ref. C5T
Ref. C5X

DIN 223 | TOL 6g | OX

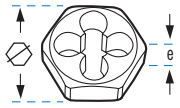




M

			M0T	C5T	M0X	C5X	
			HSS TiN	HSS TiN	HSSCo OX	HSSCo OX	
	U.tà	$L_1 \times L_2 \times$ ⌀ mm	€	€	€	€	Ø x L3 mm
M 3 x 0,50	3	40 x 11 x 2,70	29,78	26,91	34,28	29,38	20 x 5
M 4 x 0,70	3	45 x 13 x 3,40	26,07	62,56	34,28	29,38	20 x 5
M 5 x 0,80	3	50 x 16 x 4,90	28,61	28,16	34,78	28,04	20 x 7
M 6 x 1,00	3	50 x 19 x 4,90	28,61	28,16	34,70	28,01	20 x 7
M 8 x 1,00	2	50 x 19 x 4,90	30,62				
M 8 x 1,25	3	56 x 22 x 4,90	37,82	28,87	39,84	36,50	25 x 9
M 10 x 1,00	2	63 x 18 x 5,50	35,33				
M 10 x 1,50	3	70 x 24 x 5,50	44,28	36,20	53,28	48,83	30 x 11
M 12 x 1,50	2	70 x 20 x 7,00	44,97				
M 12 x 1,75	3	75 x 29 x 7,00	47,67	52,28	69,55	72,26	38 x 14
M 14 x 1,50	2	70 x 20 x 9,00	52,29				
M 14 x 2,00	3	80 x 30 x 9,00	70,18	57,89	87,71	72,26	38 x 14
M 16 x 2,00	3	80 x 32 x 9,00	76,59	73,63	107,01	104,55	45 x 18
M 18 x 2,50	3	95 x 40 x 11,00	98,92		140,15		
M 20 x 2,50	3	95 x 40 x 12,00	105,95		157,77		
M 22 x 2,50	3	100 x 40 x 14,50	134,00				
M 24 x 3,00	3	110 x 50 x 14,50	174,29				

FILIERE ESAGONALI HSS PER FILETTARE A MANO





M — HSS — DIN 382

	C5HM x e	€
M 3 x 0,35	18 x 5	41,26
M 3 x 0,50	19 x 5	23,24
M 3,5 x 0,60	18 x 5	41,26
M 4 x 0,50	18 x 5	41,26
M 4 x 0,70	19 x 5	21,78
M 5 x 0,50	18 x 5	41,26
M 5 x 0,75	18 x 5	41,26
M 5 x 0,80	19 x 7	21,78
M 6 x 0,75	18 x 7	45,25
M 6 x 1,00	19 x 7	23,24
M 7 x 0,75	21 x 9	43,85
M 7 x 1,00	21 x 9	24,63
M 8 x 0,75	21 x 9	47,85
M 8 x 1,00	21 x 9	47,85
M 8 x 1,25	22 x 9	24,63
M 9 x 0,75	21 x 9	49,63
M 9 x 1,00	21 x 9	49,63
M 9 x 1,25	22 x 9	44,68
M 10 x 1,00	27 x 11	47,84
M 10 x 1,25	27 x 11	47,84
M 10 x 1,50	27 x 11	28,34
M 11 x 1,00	27 x 11	74,43
M 11 x 1,50	27 x 11	74,43
M 12 x 1,25	36 x 10	64,01
M 12 x 1,50	36 x 10	64,01
M 12 x 1,75	36 x 10	41,29
M 14 x 1,25	36 x 14	71,54
M 14 x 1,50	36 x 10	71,54
M 14 x 2,00	36 x 10	37,16
M 15 x 1,00	36 x 14	98,10
M 15 x 1,50	41 x 14	98,10
M 16 x 1,00	41 x 14	86,60
M 16 x 1,50	41 x 14	86,60

	C5HM x e	€
M 16 x 2,00	41 x 18	56,08
M 18 x 1,00	41 x 14	98,10
M 18 x 1,50	41 x 14	91,12
M 18 x 2,50	41 x 18	50,48
M 20 x 1,00	41 x 14	98,10
M 20 x 1,50	41 x 14	91,12
M 20 x 2,00	41 x 18	98,10
M 20 x 2,50	41 x 18	56,08
M 22 x 1,00	50 x 16	143,32
M 22 x 1,50	50 x 16	129,04
M 22 x 2,00	50 x 16	143,32
M 22 x 2,50	50 x 16	93,73
M 24 x 1,00	50 x 16	231,28
M 24 x 1,50	50 x 16	129,03
M 24 x 2,00	50 x 16	129,03
M 24 x 3,00	50 x 22	113,25
M 27 x 1,50	60 x 18	193,78
M 27 x 2,00	60 x 18	193,78
M 27 x 3,00	60 x 25	166,91
M 30 x 1,00	60 x 18	193,78
M 30 x 1,50	60 x 18	193,78
M 30 x 2,00	60 x 18	191,00
M 30 x 3,00	60 x 18	193,78
M 30 x 3,50	60 x 25	166,91
M 33 x 1,50	60 x 18	216,98
M 33 x 2,00	60 x 18	216,98
M 33 x 3,50	60 x 25	186,21
M 35 x 1,50	60 x 18	206,83
M 36 x 1,50	60 x 18	206,83
M 36 x 2,00	60 x 18	206,83
M 36 x 3,00	60 x 18	206,83
M 36 x 4,00	60 x 25	172,36

BSW — HSS — DIN 382

	C5HW x e	€
BSW 1/8 x 40h.	19 x 5	47,71
BSW 3/16 x 24h.	19 x 7	47,71
BSW 1/4 x 20h.	19 x 7	47,71
BSW 5/16 x 18h.	22 x 9	50,10
BSW 3/8 x 16h.	27 x 11	59,64
BSW 7/16 x 14h.	27 x 11	59,64
BSW 1/2 x 12h.	36 x 14	71,59

	C5HW x e	€
BSW 9/16 x 12h.	36 x 14	71,59
BSW 5/8 x 11h.	41 x 18	105,80
BSW 3/4 x 10h.	41 x 18	105,80
BSW 7/8 x 9h.	50 x 22	155,05
BSW 1" x 8h.	50 x 22	155,05
BSW 1.1/8 x 7h.	60 x 25	267,26

BSP (GAS) — HSS — DIN 382

	C5HG x e	€
G 1/8 x 28h.	27 x 11	84,00
G 1/4 x 19h.	36 x 10	84,00
G 3/8 x 19h.	41 x 14	105,03
G 1/2 x 14h.	41 x 14	105,03
G 5/8 x 14h.	50 x 16	247,29
G 3/4 x 14h.	50 x 16	247,29
G 7/8 x 14h.	60 x 18	249,51
G 1" x 11h.	60 x 18	249,51
G1.1/4 x 11h.	70 x 20	332,67
G1.1/2 x 11h.	85 x 22	561,24
G 2" x 11h.	100 x 22	844,52

UNC — HSS — DIN 382

	C5HNC x e	€
UNC 1/4-20h	18 x 7	34,78
UNC 5/16-18h	21 x 9	43,29
UNC 3/8-16h	27 x 11	52,24
UNC 7/16-14h	27 x 11	77,11
UNC 1/2-13h	36 x 14	77,38
UNC 9/16-12h	36 x 14	92,46
UNC 5/8-11h	41 x 18	71,65
UNC 3/4-10h	41 x 18	113,98
UNC 7/8-9h	50 x 22	161,75
UNC 1"-8h	50 x 22	161,75
UNC 1.1/8-7h	60 x 25	213,85
UNC 1.1/4-7h	60 x 25	213,85

UNF — HSS — DIN 382

	C5HNF x e	€
UNF 1/4-28h.	18 x 7	36,87
UNF 5/16-24h.	21 x 9	46,09
UNF 3/8-24h.	27 x 11	55,44
UNF 7/16-20h.	27 x 11	81,71
UNF 1/2-20h.	36 x 10	82,97
UNF 9/16-18h.	36 x 10	92,46
UNF 5/8-18h.	41 x 14	115,37
UNF 3/4-16h.	41 x 14	120,82
UNF 7/8-14h.	50 x 16	152,81
UNF 1"-12h.	50 x 16	160,21
UNS 1"-14h.	50 x 16	160,21
UNF 1.1/8-12h.	60 x 18	213,85
UNF 1.1/4-12h.	60 x 18	213,85

SERIE DI MASCHI E FILIERE PER FILETTARE A MANO, A SINISTRA

M
MF

DIN 13 — 60° — p

Ref. M0I

HSS	(M) DIN 352	(MF) DIN 2181	TOL 6H

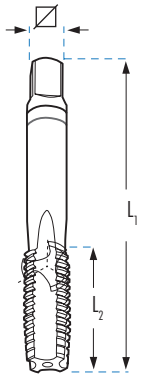
Ref. C5I

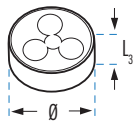
HSS	DIN 223	TOL 6g

Per materiali fino a 38 HRc.



A SINISTRA









	U.tà	Ø	$L_1 \times L_2 \times \square$ mm	M0I €	Ø x L3 mm	C5I €
M 2x0,40	3	1,60	36x9,0x2,1	59,43	16x5	61,05
M 3x0,50	3	2,50	40x11,0x2,7	30,32	25x9	34,76
M 4x0,70	3	3,30	45x13,0x3,4	30,30	25x9	34,76
M 5x0,80	3	4,20	50x16,0x4,9	33,83	25x9	35,85
M 6x1,00	3	5,00	50x19x4,9	34,20	25x9	38,60
M 7x1,00	3	6,00	50x19x4,9	45,07	25x9	51,03
M 8x1,00	2	7,00	56x18x4,9	42,52	25x9	55,61
M 8x1,25	3	6,80	56x22x4,9	37,39	25x9	39,42
M 9x1,25	3	7,80	63x22x5,5	50,74	25x9	58,23
M 10x1,50	3	8,50	70x24x5,5	48,14	38x10	45,13
M 12x1,50	2	10,50	70x20x7,0	75,35	38x10	76,36
M 12x1,75	3	10,20	75x29x7,0	60,67	38x14	65,29
M 14x1,25	2	12,80	70x20x9,0	94,95	38x10	88,26
M 14x2,00	3	12,00	80x30x9,0	78,09	38x14	71,21
M 16x1,50	2	14,50	70x20x9,0	100,01	45x14	104,66
M 16x2,00	3	14,00	80x32x9,0	93,67	45x18	83,54
M 18x2,00	2	16,00	80x22x11,0	151,16	45x14	123,67
M 18x2,50	3	15,50	95x40x11,0	124,44	45x18	94,88
M 20x2,00	2	18,00	80x22x12,0	194,30	45x14	120,41
M 20x2,50	3	17,50	95x40x12,0	137,36	45x18	92,27
M 22x2,00	2	20,00	80x22x14,5	188,51	55x16	211,72
M 22x2,50	3	19,50	100x40x14,5	192,10	55x22	169,24
M 24x2,00	2	22,00	90x22x14,5	256,88	55x16	215,74
M 24x3,00	3	21,00	110x50x14,5	222,58	55x22	169,24
M 27x2,00	2	25,00	90x22x16,0	460,14	65x18	318,85
M 27x3,00	3	24,00	110x50x16,0	289,74	65x25	256,71
M 30x3,00	2	27,00	125x56x18,0	487,77	65x25	226,78
M 30x3,50	3	26,50	125x50x18,0	367,15	65x25	236,92
M 33x2,00	2	31,00	100x25x20,0	741,81	65x18	266,81
M 33x3,50	3	29,50	125x50x20,0	631,55	65x25	236,86
M 36x3,00	2	33,00	125x33x22,0	855,77	65x25	282,74
M 36x4,00	3	32,00	150x53x22,0	783,46	65x25	236,92
M 39x3,00	2	36,00	125x33x24,0	962,99	75x30	442,95
M 39x4,00	3	35,00	150x53x24,0	886,62	75x30	367,16

Consultare altre misure disponibili su richiesta.

UNC

	U.tà	D_1 mm	Ø	$L_1 \times L_2 \times \square$ mm	M0I €	Ø x L3 mm	C5I €
UNC 1/4-20h.	3	6,35	5,10	50x19x4,9	65,20	20x7	65,03
UNC 5/16-18h.	3	7,94	6,60	56x22x4,9	71,77	25x9	72,02
UNC 3/8-16h.	3	9,52	8,00	70x24x5,5	80,38	30x11	75,99
UNC 1/2-13h.	3	12,70	10,75	75x29x7,0	133,84	38x14	97,54
UNC 5/8-11h.	3	15,87	13,50	80x32x9,0	178,99	45x18	107,33
UNC 3/4-10h.	3	19,05	16,50	95x40x11,0	237,50	45x18	125,95
UNC 1"-8h.	3	25,40	22,25	110x50x14,5	352,53	55x22	186,84

UNF

	U.tà	D_1 mm	Ø	$L_1 \times L_2 \times \square$ mm	M0I €	Ø x L3 mm	C5I €
UNF 1/4-28h.	2	6,35	5,50	50x14x4,9	44,60	25x9	65,03
UNF 5/16-24h.	2	7,94	6,90	56x22x4,9	44,23	25x9	72,06
UNF 3/8-24h.	2	9,52	8,50	63x20x5,5	64,05	38x10	74,80
UNF 1/2-20h.	2	12,70	11,50	70x22x7,0	79,25	38x10	97,54
UNF 5/8-18h.	2	15,87	14,50	70x22x9,0	111,14	45x14	107,33
UNF 3/4-16h.	2	19,05	17,50	80x22x11,0	144,32	45x14	125,95
UNS 1"-14h.	2	25,40	23,60	90x22x14,5	321,15	55x16	243,76

BSP (GAS)

	U.tà	D_1 mm	Ø	$L_1 \times L_2 \times \square$ mm	M0I €	Ø x L3 mm	C5I €
G 1/8-28h.	2	9,73	8,80	63 x 20 x 5,5	66,97	38x10	90,56
G 1/4-19h.	2	13,16	11,80	70 x 22 x 9,0	71,52	38x10	84,85
G 3/8-19h.	2	16,66	15,25	70 x 22 x 9,0	104,77	45x14	114,91
G 1/2-14h.	2	20,95	19,00	80 x 22 x 12,0	164,51	45x14	114,91
G 5/8-14h.	2	22,91	21,00	80 x 22 x 14,5	195,37	55x16	182,25
G 3/4-14h.	2	26,44	24,50	90 x 22 x 16,0	240,28	55x16	182,23
G 1"-11h.	2	33,25	30,75	100 x 25 x 20,0	360,15	65x18	234,35
G 1.1/4-11h.	2	41,91	39,50	125 x 40 x 24,0	579,33	75x20	362,05

BSW

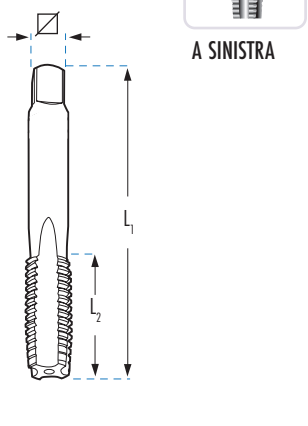
	U.tà	D_1 mm	Ø	$L_1 \times L_2 \times \square$ mm	M0I €	Ø x L3 mm	C5I €
W 1/8-40h.	3	3,17	2,55	40x14x2,7	65,05	25x9	65,03
W 1/4-20h.	3	6,35	5,10	50x20x4,9	61,55	25x9	65,03
W 5/16-18h.	3	7,94	6,50	56x20x4,9	71,61	25x9	72,06
W 3/8-16h.	3	9,52	7,90	63x22x5,5	88,50	38x10	77,83
W 5/8-11h.	3	15,87	13,40	80x27x9,0	170,63	45x18	117,85
W 3/4-10h.	3	19,05	16,50	95x32x11,0	227,09	45x18	125,99
W 7/8-9h.	3	22,22	19,25	100x32x14,5	280,02	55x22	186,82
W 1"- 8h.	3	25,40	21,75	110x36x14,5	459,32	55x22	186,82

MASCHIO Nº3 PER FILETTARE A MANO, FILETTO METRICO, A SINISTRA E A DESTRA

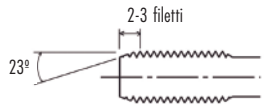
M
MF

DIN 13 — 60° — P

HSS | **DIN 352** | **TOL 6H**







Ref. M03: Cono di entrata 2-3 filetti

D
CODOLO SOTTILE

DIN 352

M03I

	Ø		L1 x L2 x D2 x ☐ mm	€
M 3x0,50	2,50	D	40 x 11 x 3,50 x 2,70	10,11
M 4x0,70	3,30	D	45 x 13 x 4,50 x 3,40	10,10
M 5x0,80	4,20	D	50 x 16 x 6,00 x 4,90	11,28
M 6x1,00	5,00	D	50 x 19 x 6,00 x 4,90	11,40
M 7x1,00	6,00	D	50 x 19 x 6,00 x 4,90	15,02
M 8x1,25	6,75	D	56 x 22 x 6,00 x 4,90	12,46
M 10x1,50	8,50	D	70 x 24 x 7,00 x 5,50	16,05
M 12x1,75	10,20	D	75 x 29 x 9,00 x 7,00	20,22
M 14x2,00	12,00	D	80 x 30 x 11,00 x 9,00	26,03
M 16x2,00	14,00	D	80 x 32 x 12,00 x 9,00	31,22
M 18x2,50	15,50	D	95 x 40 x 14,00 x 11,00	41,48
M 20x2,50	17,50	D	95 x 40 x 16,00 x 12,00	45,79

Consultare altre misure disponibili su richiesta.

M03

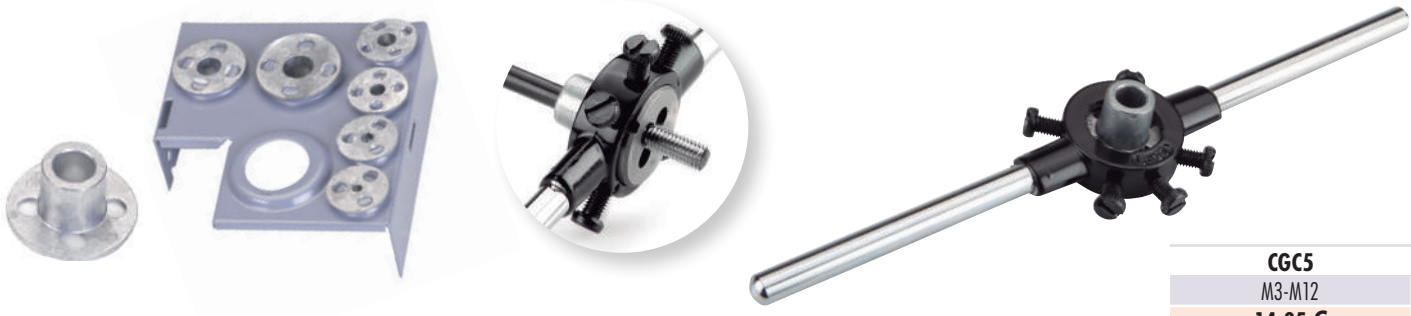
	Ø		L1 x L2 x D2 x ☐ mm	€
M 3x0,50	2,50	D	40 x 11 x 3,50 x 2,70	5,05
M 4x0,70	3,30	D	45 x 13 x 4,50 x 3,40	5,05
M 5x0,80	4,20	D	50 x 16 x 6,00 x 4,90	5,64
M 6x1,00	5,00	D	50 x 19 x 6,00 x 4,90	5,70
M 7x1,00	6,00	D	50 x 19 x 6,00 x 4,90	7,51
M 8x1,00	7,00	D	56 x 18 x 6,00 x 4,90	10,63
M 8x1,25	6,75	D	56 x 22 x 6,00 x 4,90	6,23
M 9x1,25	7,75	D	63 x 18 x 7,00 x 5,50	8,46
M 10x1,00	9,00	D	63 x 18 x 7,00 x 5,50	12,50
M 10x1,25	8,80	D	70 x 24 x 7,00 x 5,50	11,64
M 10x1,50	8,50	D	70 x 24 x 7,00 x 5,50	8,02
M 12x1,00	11,00	D	70 x 20 x 9,00 x 7,00	20,49
M 12x1,25	10,75	D	70 x 20 x 9,00 x 7,00	20,42
M 12x1,50	10,50	D	70 x 20 x 9,00 x 7,00	18,84
M 12x1,75	10,20	D	75 x 29 x 9,00 x 7,00	10,11
M 14x1,00	13,00	D	70 x 20 x 11,00 x 9,00	31,82
M 14x1,25	12,80	D	70 x 20 x 11,00 x 9,00	23,74
M 14x1,50	12,50	D	70 x 20 x 11,00 x 9,00	20,34
M 14x2,00	12,00	D	80 x 30 x 11,00 x 9,00	13,02
M 16x1,00	15,00	D	70 x 20 x 12,00 x 9,00	34,70
M 16x1,25	14,75	D	70 x 20 x 12,00 x 9,00	34,91
M 16x1,50	14,50	D	70 x 20 x 12,00 x 9,00	25,00
M 16x2,00	14,00	D	80 x 32 x 12,00 x 9,00	15,61
M 18x1,50	16,50	D	80 x 22 x 14,00 x 11,00	25,51
M 18x2,50	15,50	D	95 x 40 x 14,00 x 11,00	20,74
M 20x1,50	18,50	D	80 x 22 x 16,00 x 12,00	27,63
M 20x2,50	17,50	D	95 x 40 x 16,00 x 12,00	22,89
M 22x2,50	19,50	D	100 x 40 x 18,00 x 14,50	32,02
M 24x3,00	21,00	D	110 x 50 x 18,00 x 14,50	37,10
M 27x3,00	24,00	D	110 x 50 x 20,00 x 16,00	48,29
M 30x3,50	26,50	D	125 x 50 x 22,00 x 18,00	61,19

CALIBRI PER IL CONTROLLO DEI PASSI DELLA FILETTATURA



	TIPI DI FILETTATURA	INTERVALLO DI PASSI		GAM €
		Metrici	Inglesi	
GAM	Passi filettatura metrica	0,25 - 2,5		13,33
GAMW	Passi filettatura metrica /filettatura inglese	0,25 - 6,0	62h - 4h	17,65

INSIEME DI GUIDE PER FILIERE M3-M12

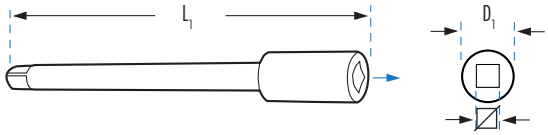


CGC5
M3-M12
14,85 €

PROLUNGA PER MASCHI

DIN 377

DIN 10





Stessa misura del attacco quadro in entrambe le zone maschio e femmina.

	▢ x L1 mm	D1 mm	AL €
AL21	2,1 x 60	6,0	8,76
AL24	2,4 x 70	6,0	8,76
AL27	2,7 x 80	7,0	8,76
AL30	3,0 x 90	7,0	8,76
AL34	3,4 x 95	8,0	9,49
AL38	3,8 x 95	9,0	9,91
AL43	4,3 x 105	10,0	11,04
AL49	4,9 x 110	11,0	10,65
AL55	5,5 x 115	12,0	10,82
AL62	6,2 x 120	14,0	13,54
AL70	7,0 x 125	15,0	14,69
AL80	8,0 x 125	17,0	18,33
AL90	9,0 x 135	19,0	18,84

	▢ x L1 mm	D1 mm	AL €
AL100	10,0 x 140	21,0	18,41
AL110	11,0 x 150	23,0	22,42
AL120	12,0 x 160	25,0	28,41
AL130	13,0 x 165	27,0	44,44
AL145	14,5 x 175	29,0	43,32
AL160	16,0 x 185	30,0	47,67
AL180	18,0 x 195	33,0	54,34
AL200	20,0 x 220	36,0	72,46
AL220	22,0 x 220	40,0	105,89
AL240	24,0 x 235	42,0	157,78
AL260	26,0 x 245	45,0	171,43
AL290	29,0 x 260	55,0	197,57
AL320	32,0 x 280	55,0	247,92

GIRAMASCHI IN ACCIAIO FORGIATO

Massima Resistenza 150 kg/mm²

Ref. GAPRO

- Corpo in Acciaio Forgiato.
- Sopporta sforzi fino a 150 kg/mm.
- Massima resistenza e durabilità.
- Maggiore precisione e fermezza nell'attaco.
- La filettatura di precisione forma un insieme solito e robusto.
- Impugnatura antiscivolo, maggiore aderenza .





GAPRO

Nº NORMA	Nº 0	Nº 1	Nº 1.1/2	Nº 2	Nº 3	Nº 4	Nº 5
■	M1-M8 2,00-5,00	M1-M10 2,00-6,30	M1-M12 2,50-7,00	M1-M12 2,50-8,00	M5-M20 4,00-13,00	M5-M27 4,00-16,00	M9-M32 5,50 -20,00
€	**18,25**	**18,54**	**24,63**	**31,12**	**44,05**	**70,42**	**149,05**

Ref. GA

- Corpo in Lega di Zinco.
- Alta resistenza e durabilità.
- Alta precisione e fermezza nell'attaco.



GA

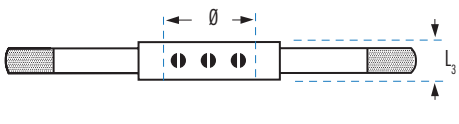
Nº NORMA	Nº 0	Nº 1	Nº 1.1/2	Nº 2	Nº 3	Nº 4	Nº 5	Nº 7	Nº 8
■	M1-M8 1,50-5,00	M1-M10 2,00-7,00	M1-M12 2,00-8,00	M4-M12 2,50-10,00	M5-M20 3,50-14,00	M9-M27 4,00-15,00	M13-M32 5,50-19,00	M22-M52 14,00-34,00	M33-M64 16,00-40,00
€	**10,18**	**12,32**	**16,55**	**20,92**	**29,61**	**47,35**	**100,22**	**206,76**	**425,75**

GIRAFILIERE IN ACCIAIO

Ref. VA

DIN 225 — **5**

IMPORTANTE: Al momento dell'ordine, indichi lo spessore del girafiliere in base agli spessori delle filiere indicati nella tariffa.





VA

Ø x L3 mm	16x5	20x5	20x7	25x9	30x11	38x10	38x14	45x14	45x18	55x16	55x22	65x18	65x25
€	**10,65**	**11,78**	**11,78**	**13,45**	**16,29**	**21,30**	**21,27**	**26,14**	**26,35**	**33,79**	**35,40**	**48,43**	**48,43**
Ø x L3 mm	75x20	75x30	90x22	90x36	105x22	105x36	120x22	120x36	130x25	130x36			
€	**97,76**	**102,32**	**123,83**	**133,40**	**186,01**	**186,01**	**483,77**	**483,77**	**502,93**	**502,93**			

Ref. VA

POLLICI — **3**



VA

Ø mm	20,60	25,40	38,10	50,80	63,50	76,20	88,90
POLLICI	13/16"	1"	1.1/2"	2"	2.1/2"	3"	3.1/2"
€	**13,45**	**15,95**	**23,87**	**35,41**	**55,87**	**103,32**	**130,88**

NOTA: I girafiliere con Ø esterno in pollici sono in disuso.

GIRAMASCHI A CRICCHETTO

Ref. TC — TIPO T — SERIE CORTA







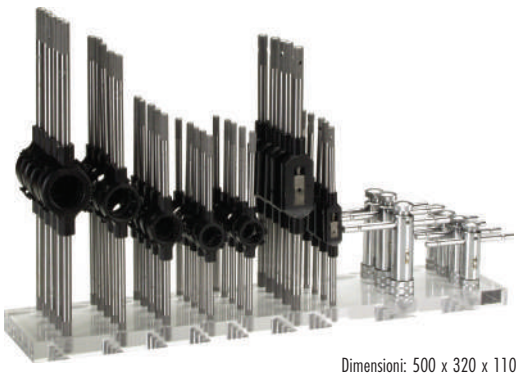
	CAPACITÀ mm min.-max.	Per codoli di maschi DIN	Per codoli di maschi ISO	L1 mm	PESO g	QUALITÀ	TC €
TC3B	2,6 - 5,5	M3 - 8	M3 - 6	85	180	1ª Qualità	**29,34**
TC4B	4,6 - 8,0	M5 - 12	M6 - 12	110	300	1ª Qualità	**39,66**
TC1B	2,6 - 5,5	M3 - 8	M3 - 6	85	180	2ª Qualità	**16,82**
TC2B	4,6 - 8,0	M5 - 12	M6 - 12	110	300	2ª Qualità	**25,19**

Ref. TL — TIPO T — SERIE LUNGA

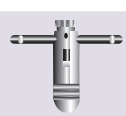


	CAPACITÀ mm min.-max.	Per codoli di maschi DIN	Per codoli di maschi ISO	L1 mm	PESO g	QUALITÀ	TL €
TL3	2,6 - 5,5	M3 - 8	M3 - 6	250	250	1ª Qualità	**46,29**
TL4	4,6 - 8,0	M5 - 12	M6 - 12	300	440	1ª Qualità	**55,12**
TL1	2,6 - 5,5	M3 - 10	M3 - 6	250	250	2ª Qualità	**32,54**
TL2	4,6 - 8,0	M5 - 12	M6 - 12	300	440	2ª Qualità	**38,78**

ESPOSITORE IN METACRILATO



Dimensioni: 500 x 320 x 110 mm

				GV-01 €
GV-01	Nº 1 1/2 5 — Nº 2 5	20 x 5 5 — 20 x 7 5 — 25 x 9 5 — 30 x 11 5 — 38 x 14 5	TC1 4 — TC2 4	**791,29**

ASSORTIMENTO DI MASCHI E FILIERE HSS IN SCATOLA METALLICA

M3 M12 **HSS**



Ref. D624

CONTENUTO

					Nº Pezzi	1ª Qualità €	2ª Qualità €
D624	M3 - M4 - M5 - M6 - M8 - M10 - M12	Nº 1.1/2	25 x 9	-	30	**258,27**	**234,29**

ASSORTIMENTI DI FILIERE HSS IN SCATOLA METALLICA

M3 M12 **HSS**



Ref. D671

CONTENUTO

					Nº Pezzi	1ª Qualità €	2ª Qualità €
D671	M3 - M4 - M5 - M6 - M8 - M10 - M12	20 x 5 30 x 11	20 x 7 38 x 14	25 x 9	12	**254,76**	**215,79**
D671I (Sinistra)	M3 - M4 - M5 - M6 - M8 - M10 - M12	20 x 5 30 x 11	20 x 7 38 x 14	25 x 9	12	**458,57**	**388,41**

ASSORTIMENTI DI MASCHI E FILIERE HSS E HSSCo IN SCATOLA METALLICA CON GUIDE PER FILIERE

M3 M12 | HSS | HSSCo 5%







Ref. D621



Ref. D655

CONTENUTO

						Nº Pezzi	1ª Qualità €	2ª Qualità €
D621	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1 Nº 2	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14	TC1	43	**517,87**	**379,58**
D652	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1 Nº 2	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14	-	42	**501,29**	**360,46**
D662	M3-M4-M5-M6-M7 M8-M9-M10-M11-M12	-	Nº 1 Nº 2	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14	TC1	48	**771,48**	**678,57**
D651	M3 - M4 - M5 - M6 M8 - M10 - M12	-	Nº 1 Nº 2	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14	-	35	**395,65**	**363,99**
D655* (HSSCo)	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1 Nº 2	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14	TC1	43	**826,14**	**726,70**
D621I (Sinistra)	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1 Nº 2	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14	TC1	43	**932,17**	**683,24**

* HSSCo 5%

ASSORTIMENTI DI MASCHI E FILIERE HSS E HSSCo IN SCATOLA METALLICA CON GUIDE PER FILIERE

M3
M12

HSS

HSSCo
5%





Ref. **D656**

GUIDE





Ref. **D657**

GUIDE

CONTENUTO

				+ GUIDE		Nº Pezzi	1ª Qualità €	2ª Qualità €
D656	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1 Nº 2	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14	TC1	43	**578,71**	**512,29**
D657* (HSSCo)	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1 Nº 2	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14	TC1	43	**861,50**	**760,39**

* HSSCo 5%

ASSORTIMENTI DI MASCHI E FILIERE HSS E HSSCo IN SCATOLA METALLICA

M3 M20 **M5 M20** **HSS** **HSSCo 5%**



Ref. **D622**



Ref. **D623**

CONTENUTO

					Nº Pezzi	1ª Qualità €	2ª Qualità €
D622	M3 - M4 - M5 - M6 - M8 - M10 - M12 M14 - M16 - M18 - M20	Nº 1 Nº 3	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14 45 x 18	TC1 TC2	54	**885,75**	**695,91**
D658	M3 - M4 - M5 - M6 - M8 - M10 - M12 M14 - M16 - M18 - M20	Nº 1 Nº 3	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14 45 x 18	-	52	**815,98**	**629,61**
D622I (Sinistra)	M3 - M4 - M5 - M6 - M8 - M10 - M12 M14 - M16 - M18 - M20	Nº 1 Nº 3	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14 45 x 18	TC1 TC2	54	**1.594,35**	**1.252,64**
D659* (HSSCo)	M3 - M4 - M5 - M6 - M8 - M10 - M12 M14 - M16 - M18 - M20	Nº 1 Nº 3	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14 45 x 18	-	52	**1.839,88**	**1.618,36**
D623	M5 - M6 - M8 - M10 - M12 M14 - M16 - M18 - M20	Nº 1 Nº 3	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18	TC1 TC2	45	**928,65**	**727,04**
D663	M5 - M6 - M7 - M8 - M9 - M10 - M12 M14 - M16 - M18 - M20	Nº 1 Nº 3	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18	-	51	**1.238,09**	**1.113,64**

* **HSSCo 5%**

ASSORTIMENTI DI MASCHI E FILIERE HSS IN SCATOLA METALLICA E DI LEGNO

M1 M10 **M5 M12** **M3 M24** **M5 M30** **HSS**

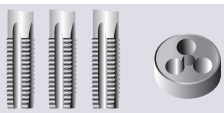
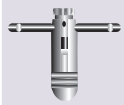


Ref. **D628**



Ref. **D626**

CONTENUTO

					Nº Pezzi	1ª Qualità €	2ª Qualità €
D626	M1 - M1.2 - M1.4 - M1.7 - M2.0 - M2.3 M2.6 - M3 - M3.5 - M4 - M5 - M6 - M8 - M10	Nº 0 Nº 1	16 x 5 20 x 5 20 x 7 25 x 9 30 x 11	TC1	64	-	**1.158,45**
D627	M5 - M6 - M7 - M8 - M9 - M10 - M11 - M12	Nº 1 Nº 2	20 x 7 25 x 9 30 x 11 38 x 14	TC1	39	-	**865,42**
D625	M3 - M4 - M5 - M6 - M8 - M10 - M12 - M14 M16 - M18 - M20 - M22 - M24	Nº 1 Nº 4	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14 45 x 18 55 x 22	-	61	**2.044,04**	**1.508,17**
D628	M5 - M6 - M8 - M10 - M12 - M14 - M16 M18 - M20 - M22 - M24 - M27- M30	Nº 1 Nº 3 Nº 5	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18 55 x 22 65 x 25	-	62	-	**2.760,51**

ASSORTIMENTI DI MASCHI E FILIERE HSS IN SCATOLA METALLICA

MF **HSS**



Ref. **D634**



Ref. **D636**

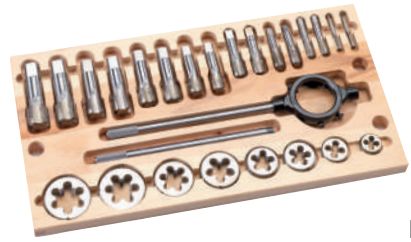
CONTENUTO

					Nº Pezzi	1ª Qualità €	2ª Qualità €
D634	MF 3 x 0.35 - 4 x 0.5 - 5 x 0.5 MF 6 x 0.75 - 8 x 0.75 - 8 x 1.0 MF 10 x 1.0 - 12 x 1.5	Nº 1 Nº 2	20 x 5 25 x 9 30 x 11 38 x 10	TC1	31	-	**794,00**
D635	MF 6 x 0.75 - 8 x 0.75 - 8 x 1.0 - 10 x 1.0 MF 12 x1.0 - 12 x1.5 - 14 x1.25 - 14 x1.5 MF 16 x 1.5 - 18 x 1.5 - 20 x 1.5	Nº 1 Nº 3	20 x 7 25 x 9 30 x 11 38 x 10 45 x 14	-	40	**1.295,17**	**1.231,61**
D636	MF 6 x 0.75 - 8 x 0.75 - 8 x 1.0 - 10 x 1.0 MF 12 x1.0 - 12 x1.5 - 14 x1.25 - 14 x1.5 MF 16 x1.5 - 18 x1.5 - 20 x1.5 - 22 x1.5 MF 24 x 1.5	Nº 1 Nº 4	20 x 7 25 x 9 30 x 11 38 x 10 45 x 14 55 x 16	-	47	**1.776,74**	**1.642,72**

ASSORTIMENTI DI MASCHI E FILIERE HSS IN SCATOLA METALLICA

BSP (GAS) **HSS**





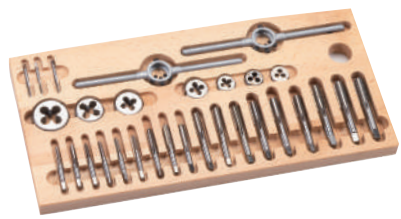
Ref. D638

CONTENUTO

					Nº Pezzi	1ª Qualità €	2ª Qualità €
D637	G 1/8 - 1/4 - 3/8 -1/2 - 3/4 - 1"	Nº 1 Nº 3 Nº 5	30 x 11 38 x 10 45 x 14 55 x 16 65 x 18	-	26	**1.438,04**	**1.161,63**
D638	G 1/8 - 1/4 - 3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1"	Nº 1 Nº 3 Nº 5	30 x 11 38 x 10 45 x 14 55 x 16 65 x 18	-	32	**1.951,57**	**1.703,58**
D639	G 1/4 - 3/8 - 1/2 - 3/4 - 1" - 1".1/4 - 1".1/2	Nº 2 Nº 4 Nº 7	38 x 10 45 x 14 55 x 16 65 x 18 75 x 20 90 x 22	-	30	**3.600,32**	**3.037,02**

BSW **HSS**





Ref. D640

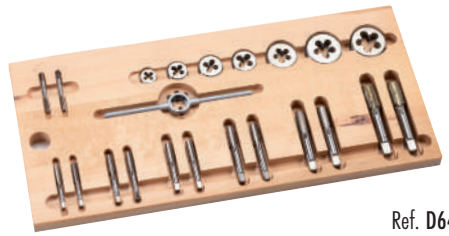
CONTENUTO

					Nº Pezzi	1ª Qualità €	2ª Qualità €
D640	BSW 1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 7/16 - 1/2	Nº 1 Nº 2	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14	TC1	36	**802,23**	**685,78**
D641	BSW 1/4 - 5/16 -3/8 - 7/16 - 1/2	Nº 1 Nº 2	20 x 7 25 x 9 30 x 11 38 x 14	TC1	27	**661,33**	**557,02**
D642	BSW 1/4 - 5/16 -3/8 - 7/16 - 1/2 -5/8 - 3/4	Nº 1 Nº 3	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18	-	35	**1.183,54**	**1.079,93**
D643	BSW 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4 - 7/8 - 1"	Nº 1 Nº 4	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18 55 x 22	-	44	**1.673,80**	**1.469,54**
D646	BSW 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4 - 7/8 - 1" - 1".1/8 1".1/4 - 1".3/8 - 1".1/2	Nº 1 Nº 3 Nº 5	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18 55 x 22 65 x 25	-	62	-	**4.465,59**

ASSORTIMENTI DI MASCHI E FILIERE HSS IN SCATOLA METALLICA

BSF **HSS**





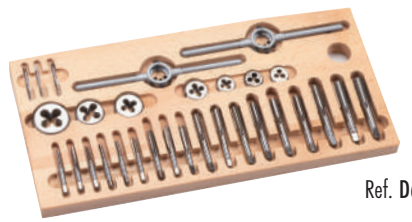
Ref. D648

CONTENUTO

					Nº Pezzi	1ª Qualità €	2ª Qualità €
D664	BSF 1/4 - 5/16 - 3/8 - 7/ 16 - 1/2	Nº 1 Nº 2	20 x 7 25 x 9 30 x 11 38 x 10	TC1	22	**739,56**	**650,51**
D648	BSF 1/4 - 5/16 - 3/8 - 7/ 16 - 1/2 - 5/8 - 3/4	Nº 1 Nº 3	20 x 7 25 x 9 30 x 11 38 x 10 45 x 14	-	28	**1.148,09**	**1.079,93**
D665	BSF 1/4 - 5/16 - 3/8 - 7/ 16 1/2 - 5/8 - 3/4 - 7/8 - 1"	Nº 1 Nº 4	20 x 7 25 x 9 30 x 11 38 x 10 45 x 14 55 x 16	-	35	**1.948,12**	**1.713,55**

BSW BSF **HSS**





Ref. D666

CONTENUTO

					Nº Pezzi	1ª Qualità €	2ª Qualità €
D666	BSW 1/4 - 5/16 - 3/8 - 7/ 16 - 1/2 - 5/8 - 3/4 BSF 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 5/8 - 3/4	Nº 1 Nº 3	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18	-	63	**2.200,66**	**1.935,68**

ASSORTIMENTI DI MASCHI E FILIERE HSS IN SCATOLA METALLICA

NPT **HSS**





Ref. D660

CONTENUTO

					Nº Pezzi	1ª Qualità €	2ª Qualità €
D660	NPT 1/8 - 1/4 - 3/8 - 1/2 - 3/4 - 1"	Nº1 Nº3 Nº5	30 x 11 38 x 14 45 x 18 55 x 22 65 x 25	-	20	**2.080,19**	**1.973,16**
D661	NPT 1/8 - 1/4 - 3/8 - 1/2 - 3/4 1"- 1".1/4 - 1".1/2 - 2"	Nº 2 Nº 4 Nº 7	30 x 11 38 x 14 45 x 18 55 x 22 65 x 25 75 x 30 90 x 36 105 X 36	-	29	**6.227,02**	**5.850,26**

UNC **HSS**





Ref. D650

CONTENUTO

					Nº Pezzi	1ª Qualità €	2ª Qualità €
D650	UNC 1/4 - 5/16 - 3/8 - 7/16 - 1/2	Nº 1 Nº 2	20 x 7 25 x 9 30 x 11 38 x 14	TC1	27	**806,09**	**723,50**
D667	UNC 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 5/8 - 3/4	Nº 1 Nº 2	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18	-	35	**1.298,75**	**1.142,36**
D654	UNC 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4 - 7/8 - 1"	Nº 1 Nº 4	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18 55 x 22	-	44	**2.095,65**	**1.961,26**
D668	UNC 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 5/8 - 3/4 7/8 - 1" - 1.1/8 -1".1/4 - 1".3/8 - 1".1/2"	Nº 1 Nº 3 Nº 6	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18 55 x 22 65 x 25	-	62	**4.906,35**	**4.315,59**

ASSORTIMENTI DI MASCHI E FILIERE HSS IN SCATOLA METALLICA

UNF **HSS**





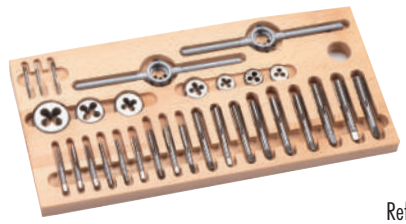
Ref. D644

CONTENUTO

					Nº Pezzi	1ª Qualità €	2ª Qualità €
D644	UNF 1/4 - 5/16 - 3/8 - 7/16 - 1/2	Nº 1 Nº 2	20 x 7 25 x 9 30 x 11 38 x 10	TC1	22	**631,65**	**547,58**
D669	UNF 1/4-5/16 -3/8 -7/16 -1/2 -5/8 -3/4	Nº 1 Nº 3	20 x 7 25 x 9 30 x 11 38 x 10 45 x 14	-	28	**1.190,50**	**1.047,16**
D645	UNF 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 5/8 3/4 - 7/8 - 1"	Nº 1 Nº 4	20 x 7 25 x 9 30 x 11 38 x 10 45 x 14 55 x 16	-	34	**1.459,80**	**1.323,60**

UNC UNF **HSS**





Ref. D670

CONTENUTO

					Nº Pezzi	1ª Qualità €	2ª Qualità €
D670	UNC 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 5/8 - 3/4 UNF 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 5/8 - 3/4	Nº 1 Nº 3	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18	-	35	**2.200,66**	**1.935,68**

ASSORTIMENTI DI MASCHI A MANO HSS E TiN IN SCATOLE METALLICHE


Ref. JMB0


Ref. JMB2


Ref. JMBT2

CONTENUTO

					HSS €		TiN * €
JMB2	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	-	171,76	JMBT2	339,25
JMB0	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	-	-	195,94	JMBT0	380,71
JMB1	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1.1/2	-	216,57	JMBT1	399,62
JMB5	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1.1/2	TC1	233,18	JMBT5	418,75
JMBI2 (Sinistra)	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	-	309,17	JMBIT2	610,65
JMBI0 (Sinistra)	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	-	-	352,69	JMBIT0	685,28
JMBI1 (Sinistra)	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1.1/2	-	389,82	JMBIT1	719,31

ASSORTIMENTI DI MASCHI FINITORI A MANO HSS E TIN IN SCATOLE METALLICHE


Ref. JMB3


Ref. JMB4

CONTENUTO

3º					HSS €		TiN * €
JMB3	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	-	83,78	JMBT3	104,37
JMB4	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	-	-	104,27	JMBT4	137,87
JMB7	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1.1/2	-	119,33	JMBT7	191,23
JMB6	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1.1/2	TC1	129,20	JMBT6	203,83
JMBI3 (Sinistra)	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	-	150,80	JMBIT3	187,87
JMBI4 (Sinistra)	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	-	-	187,68	JMBIT4	248,16

*  TiN

ASSORTIMENTI DI MASCHI A MANO HSSCO IN SCATOLE METALLICHE

HSSCo 5%



Ref. JMBX0

CONTENUTO

INOX	MOX	HSSCo			€
JMBX0	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	-	-	**303,01**
JMBX1	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1.1/2	-	**318,89**
JMBX2	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	-	**286,53**

CONTENUTO

1100 N/mm²	MOMD	HSSCo			€
JMBMD0	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	-	-	**316,43**
JMBMD1	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1.1/2	-	**332,88**
JMBMD2	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	-	**301,61**

SET DI FILIERE HSS IN SCATOLE METALLICHE



Ref. C5B3

CONTENUTO

		HSS €
C5B3	M3 - M4 - M5 - M6 - M8 - M10 - M12	**153,40**
C5B3I (Sinistra)	M3 - M4 - M5 - M6 - M8 - M10 - M12	**276,12**

ESTRATTORE DI MASCHI ROTTI PER MASCHI A SCANALATURE DRITTE – NON ELICOIDALI





ESTRATTORI SCIOLTI

ASTA DI RICAMBIO

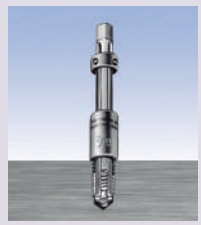
Ø MASCHIO DA ESTRARRE		MASCHI A MANO	MASCHI A MACCHINA	€/ U.tà	MASCHI A MANO	MASCHI A MACCHINA	€/ U.tà
BSW UNC	M			ESTRATTORE COMPLETO			ASTA EXTRA
--	M3		W10043	**48,19**		W12043	**2,55**
1/8	M3,2		W10053	**48,19**		W12053	**2,55**
--	M3,5		W10063	**48,19**		W12063	**2,55**
5/32	M4		W10083	**48,19**		W12083	**2,55**
3/16	M5		W10103	**48,19**		W12103	**3,83**
--	M5,5	W10124	W10123	**48,19**		W12123	**3,83**
1/4	M6		W10253	**49,62**		W12253	**4,67**
5/16	M8	W10314	W10313	**51,99**	W12314	W12313	**5,26**
--	M9	W10374	W10373	**51,49**	W12374		**5,26**
3/8	M10	W10404	W10373	**51,49**	W12404	W12373	**5,44**
7/16	M11	W10434	W10433	**54,36**	W12434	W12433	**5,51**
1/2	M12	W10504	W10503	**58,11**	W12504	W12503	**6,94**
9/16	M14	W10564	W10563	**80,33**	W12564	W12563	**7,76**
5/8	M16	W10624	W10623	**87,43**	W12624	W12623	**9,90**
--	M18	W10684	W10753	**108,33**	W12684		**9,90**
3/4	M20	W10754	W10753	**108,33**	W12754	W12753	**10,49**
7/8	M22	W10874	W10873	**118,52**	W12874	W12873	**13,59**
1"	M25	W11004	W11003	**132,18**	W13004	W13003	**22,60**

3 SEMPLICI PASSI PER L'ESTRAZIONE DI MASCHI ROTTI A SCANALATURE DRITTE

Rimuovere i trucioli del maschio rotto. Introdurre le aste dell'estrattore nelle scanalature del maschio rotto con fermezza fino in fondo.



Spingere il supporto verso il basso, fino a toccare il maschio rotto. Far scivolare la boccola verso il basso, fino a toccare la superficie di lavoro.



Applicare un giramaschi all'attacco quadro dell'estrattore. Girare a sinistra più volte fino a sbloccarlo, allora estrarre il maschio rotto.



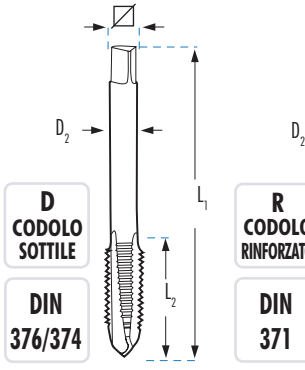
SET DI ESTRATTORI PER MASCHI ROTTI (SCANALATURE DRITTE)



	Nº CANALI	MISURE INCLUSE PER MASCHI A MACCHINA E A MANO E: 3 E 4 CANALI	
W180013	3	M5- M6- M8- M10- M11- M12	**334,11**
W180014	4	3/16 - 1/4 - 5/16 - 3/8 - 7/16 - 1/12	
W180023	3	M6- M8 -M10- M11- M12- M16	**375,91**
W180024	4	1/4 - 5/16 - 3/8 - 7/16 - 1/12 - 5/8	
W180153	3	M3- M3,2- M3,5- M4-M5- M5,50- M6- M8	**1.051,49**
W180154	4	M9- M10- M12- M16- M18- M22- M25	

MASCHI PER FILETTARE A MACCHINA HSSCo

M MF | DIN 13 | **HSSCo 5%** | **TOL 6H**



D CODOLO SOTTILE — DIN 376/374

R CODOLO RINFORZATO — DIN 371

Vc 12 m/min



	Ø	L1 x L2 x D2 x ☐ mm		M1D FORMA C €	M2D FORMA B €	M3D 15° €	M4D 35° €	M1R FORMA C €	M2R FORMA B €	M3R 15° €	M4R 35° €
M 1x0,25	0,75	R	40 x 5,5 x 2,5 x 2,1					44,01			
M 1,1x0,25	0,85	R	40 x 6 x 2,5 x 2,1					42,81			
M 1,2x0,25	0,95	R	40 x 6 x 2,5 x 2,1					40,60			
M 1,4x0,30	1,10	R	40 x 7 x 2,5 x 2,1					40,60			
M 1,6x0,35	1,25	R	40 x 8 x 2,5 x 2,1					39,88			
M 1,7x0,35	1,35	R	40 x 8 x 2,5 x 2,1					38,40			
M 1,8x0,35	1,45	R	40 x 8 x 2,5 x 2,1					37,47			
M 2x0,40	1,60	R	40 x 8 x 2,8 x 2,1					18,05	19,24	22,33	21,13
M 2,2x0,45	1,75	R	40 x 9 x 2,8 x 2,1					19,49			
M 2,3x0,40	1,90	R	40 x 9 x 2,8 x 2,1					17,96			
M 2,5x0,45	2,05	R	50 x 9 x 2,8 x 2,1					18,05	19,24	30,24	21,13
M 2,6x0,45	2,10	R	50 x 9 x 2,8 x 2,1					17,41	19,58		37,84
M 3x0,50	2,50	R D	56 x 11 x 3,5 x 2,7 56 x 11 x 2,2 x 1,8	10,55	11,50	16,39	13,84	11,95*	12,02	16,37	15,53
M 3x0,60	2,40	R	56 x 11 x 3,5 x 2,7					21,24	23,15		29,48
M 3,5x0,60	2,90	R D	56 x 12 x 4,0 x 3,0 56 x 12 x 2,5 x 2,1					17,37	18,05	22,48	21,89
M 3,5x0,75	2,75	R	56 x 12 x 4,0 x 3,0					22,11			
M 4x0,50	3,50	R D	63 x 13 x 4,5 x 3,4 63 x 13 x 2,8 x 2,1	22,67	25,66		27,42	25,00	26,79		31,01
M 4x0,70	3,30	R D	63 x 13 x 4,5 x 3,4 63 x 13 x 2,8 x 2,1	10,75	11,67	16,13	13,71	13,34*	12,82	16,54	15,55
M 4x0,75	3,25	R	63 x 13 x 4,5 x 3,4					18,30	20,30		
M 4x0,80	3,20	R	63 x 13 x 4,5 x 3,4					97,18			
M 4,5x0,50	4,00	R	70 x 14 x 6,0 x 4,9						31,16		
M 4,5x0,75	3,75	R	70 x 14 x 6,0 x 4,9					23,47	25,83		
M 5x0,50	4,50	R D	70 x 14 x 6,0 x 4,9 70 x 11 x 3,5 x 2,7	23,35	26,40		27,71	25,76	27,51		33,09
M 5x0,75	4,50	R D	74 x 14 x 6,0 x 4,9 70 x 16 x 3,5 x 2,7					23,07	26,09		32,87
M 5x0,80	4,20	R D	70 x 16 x 6,0 x 4,9 70 x 16 x 3,5 x 2,7	10,75	11,77	15,47	13,17	12,17*	12,90	16,71	14,91
M 5x0,90	4,10	R D	70 x 15 x 6,0 x 4,9 70 x 16 x 3,5 x 2,7					19,35	24,92		
M 5x1,00	4,00	R	72 x 17 x 6,0 x 4,9					51,81			
M 5,5x0,90	4,60	R	80 x 17 x 6,0 x 4,9					51,81			
M 6x0,50	5,50	R D	80 x 17 x 6,0 x 4,9 80 x 13 x 4,5 x 3,4	26,11	26,54		28,99	32,46			
M 6x0,75	5,25	R D	80 x 13 x 6,0 x 4,9 80 x 13 x 4,5 x 3,4	18,21	21,89		24,63	21,02	24,51		29,41
M 6x1,00	5,00	R D	80 x 19 x 6,0 x 4,9 80 x 19 x 4,5 x 3,4	12,25	12,90	17,42	14,43	13,43*	13,67	17,79	16,35

* Consultare il prezzo delle serie di maschi e filiere a sinistra disponibili a Pag.215

MASCHI PER FILETTARE A MACCHINA HSSCo

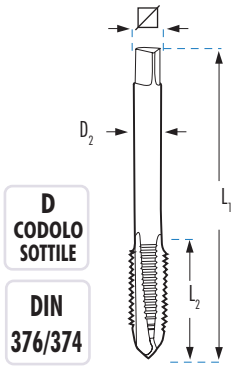
M MF | DIN 13 60° | **HSSCo 5%** | **TOL 6H** | **D CODOLO SOTTILE** | **DIN 376/374** | **Vc 12 m/min** | **R CODOLO RINFORZATO** | **DIN 371**

				M1D FORMA C €	M2D FORMA B €	M3D 15° €	M4D 35° €	M1R FORMA C €	M2R FORMA B €	M3R 15° €	M4R 35° €
M 6x1,25	4,75	R	80 x 17 x 6,0 x 4,9					50,90			
M 7x0,75	6,25	D	80 x 13 x 5,5 x 4,3	23,45	26,42		28,99				
M 7x1,00	6,00	R D	80 x 19 x 7,0 x 5,5 80 x 19 x 5,5 x 4,3	16,78	19,40	20,97	20,18	17,97 *	19,49	23,70	23,45
M 8x0,50	7,50	D	80 x 13 x 6 x 4,9	32,74							
M 8x0,75	7,25	D	80 x 13 x 6 x 4,9	22,85	27,38		28,99				
M 8x1,00	7,00	D	90 x 20 x 6 x 4,9	19,40	22,27	25,70	23,75				
M 8x1,25	6,80	R D	90 x 22 x 8 x 6,2 90 x 22 x 6 x 4,9	13,73	14,63	19,81	17,01	15,65 *	15,66	19,45	19,11
M 8x1,50	6,50	D	90 x 20 x 6 x 4,9	92,42							
M 9x1,00	8,00	D	90 x 20 x 7 x 5,5	26,69	26,52		29,81				
M 9x1,25	7,80	R D	90 x 22 x 9 x 7,0 90 x 22 x 7 x 5,5	22,69	24,78	28,91	29,33	24,99	22,31	32,36	27,42
M 10x0,50	9,50	D	90 x 20 x 7 x 5,5	91,57							
M 10x0,75	9,25	D	90 x 16 x 7 x 5,5	31,03	30,66		35,03				
M 10x1,00	9,00	D	90 x 16 x 7 x 5,5	21,47	24,77	30,35	30,02				
M 10x1,25	8,80	D	100 x 22 x 7 x 5,5	24,59	29,58	33,06	32,70				
M 10x1,50	8,50	R D	100 x 24 x 10 x 8,0 100 x 24 x 7 x 5,5	15,81	17,69	23,57	20,37	17,41 *	19,28	22,40	22,64
M 11x1,00	10,00	D	90 x 20 x 8 x 6,2	35,73	38,29	96,82	45,91				
M 11x1,25	9,75	D	100 x 22 x 8 x 6,2	36,84	40,95	96,82	45,41				
M 11x1,50	9,50	D	100 x 24 x 8 x 6,2	28,77	32,78	70,60	65,44				
M 12x0,75	11,25	D	100 x 22 x 9 x 7,0	56,43							
M 12x1,00	11,00	D	100 x 22 x 9 x 7,0	29,23	32,52	37,43	37,02				
M 12x1,25	10,75	D	100 x 22 x 9 x 7,0	29,58	32,85	35,84	35,45				
M 12x1,50	10,50	D	100 x 22 x 9 x 7,0	26,44*	29,30	34,47	34,09				
M 12x1,75	10,20	D	110 x 28 x 9 x 7,0	19,07*	22,07	28,46	25,99				
M 13x0,75	12,25	D	100 x 22 x 11 x 9,0	98,47							
M 13x1,00	12,00	D	100 x 22 x 11 x 9,0	52,14	53,14						
M 13x1,25	11,75	D	100 x 22 x 11 x 9,0	52,14	59,05						
M 13x1,50	11,50	D	100 x 22 x 11 x 9,0	52,14	53,14						
M 13x1,75	11,25	D	100 x 28 x 11 x 9,0	49,86	59,05						
M 14x0,75	13,25	D	100 x 22 x 11 x 9,0	98,47							
M 14x1,00	13,00	D	100 x 22 x 11 x 9,0	42,74	49,84	57,73	55,97				
M 14x1,25	12,80	D	100 x 22 x 11 x 9,0	37,76	43,70	52,94	52,36				
M 14x1,50	12,50	D	100 x 22 x 11 x 9,0	31,50*	34,69	41,75	41,29				
M 14x2,00	12,00	D	110 x 30 x 11 x 9,0	31,28*	33,60	40,28	38,79				
M 15x1,00	14,00	D	100 x 22 x 12 x 9,0	59,82	58,40		64,71				
M 15x1,25	13,75	D	100 x 22 x 12 x 9,0	64,07	69,36						
M 15x1,50	13,50	D	100 x 22 x 12 x 9,0	51,22	58,40	143,67	64,55				
M 15x2,00	13,00	D	110 x 30 x 12 x 9,0	62,69	68,97						
M 16x1,00	15,00	D	100 x 22 x 12 x 9,0	53,17	59,16	80,80	64,50				
M 16x1,25	14,75	D	100 x 22 x 12 x 9,0	56,98	59,68	89,87	64,77				
M 16x1,50	14,50	D	100 x 22 x 12 x 9,0	37,24*	43,39	52,02	51,46				
M 16x2,00	14,00	D	110 x 32 x 12 x 9,0	36,80*	37,49	45,92	44,76				
M 17x1,00	16,00	D	100 x 22 x 12 x 9,0	112,17							
M 17x1,25	15,75	D	100 x 22 x 12 x 9,0	112,17							
M 17x1,50	15,50	D	100 x 22 x 12 x 9,0	112,17							
M 18x1,00	17,00	D	110 x 25 x 14 x 11,0	59,55	69,36		78,94				
M 18x1,25	16,75	D	110 x 25 x 14 x 11,0	78,25							
M 18x1,50	16,50	D	110 x 25 x 14 x 11,0	49,29*	54,24	63,92	62,19				
M 18x2,00	16,00	D	125 x 30 x 14 x 11,0	60,91	74,25	126,49	79,46				

* Consultare il prezzo delle serie di maschi e filiere a sinistra disponibili a Pag.215

MASCHI PER FILETTARE A MACCHINA HSSCo

M MF | DIN 13 60° | **HSSCo 5%** | **TOL 6H** | **D CODOLO SOTTILE** | **DIN 376/374**



D CODOLO SOTTILE

DIN 376/374

Vc 12 m/min



				M1D	M2D	M3D	M4D
	Ø	L1 x L2 x D2 x ▢ mm		FORMA C	FORMA B	15°	35°
				€	€	€	€
M 18x2,50	**15,50**	D	125 x 34 x 14 x 11,0	**49,96** *	**53,40**	**61,80**	**63,08**
M 19x1,00	18,00	D	110 x 22 x 14 x 11,0	**147,39**			
M 19x1,25	17,75	D	110 x 25 x 14 x 11,0	**145,96**			
M 19x1,50	17,50	D	110 x 25 x 14 x 11,0	**144,66**			
M 20x1,00	19,00	D	125 x 25 x 16 x 12,0	**69,03**	**83,30**		**88,87**
M 20x1,25	18,75	D	125 x 25 x 16 x 12,0	**66,81**			
M 20x1,50	18,50	D	125 x 25 x 16 x 12,0	**55,83** *	**61,34**	**71,84**	**71,05**
M 20x2,00	18,00	D	140 x 32 x 16 x 12,0	**69,03**	**80,45**		**89,43**
M 20x2,50	**17,50**	D	140 x 34 x 16 x 12,0	**56,36** *	**62,53**	**65,96**	**67,32**
M 21x1,00	20,00	D	125 x 25 x 16 x 12,0	**213,98**			
M 21x1,25	19,75	D	125 x 25 x 16 x 12,0	**213,98**			
M 21x1,50	19,50	D	125 x 25 x 16 x 12,0	**204,34**			
M 22x1,00	21,00	D	125 x 25 x 18 x 14,5	**86,19**	**99,17**		**107,17**
M 22x1,25	20,75	D	125 x 25 x 18 x 14,5	**147,39**			
M 22x1,50	20,50	D	125 x 25 x 18 x 14,5	**67,19**	**73,91**	**78,81**	**74,16**
M 22x2,00	20,00	D	140 x 32 x 18 x 14,5	**86,19**	**102,77**		**107,17**
M 22x2,50	**19,50**	D	140 x 34 x 18 x 14,5	**68,22** *	**75,02**	**78,21**	**82,05**
M 23x1,00	22,00	D	125 x 25 x 18 x 14,5	**208,05**			
M 23x1,50	21,50	D	125 x 25 x 18 x 14,5	**208,05**			
M 24x1,00	23,00	D	140 x 25 x 18 x 14,5	**96,04**	**113,90**		**130,29**
M 24x1,25	22,75	D	140 x 25 x 18 x 14,5	**213,98**			
M 24x1,50	22,50	D	140 x 28 x 18 x 14,5	**77,96**	**90,87**	**105,33**	**104,19**
M 24x2,00	22,00	D	140 x 28 x 18 x 14,5	**99,46** *	**114,87**		**119,39**
M 24x3,00	**21,00**	D	160 x 38 x 18 x 14,5	**81,67** *	**88,38**	**94,28**	**99,74**
M 25x1,00	24,00	D	140 x 28 x 18 x 14,5	**172,80**			
M 25x1,25	23,75	D	140 x 28 x 18 x 14,5	**289,42**			
M 25x1,50	23,50	D	140 x 28 x 18 x 14,5	**121,43**	**120,97**		
M 25x2,00	23,00	D	140 x 28 x 18 x 14,5	**276,80**	**287,26**		
M 26x1,00	25,00	D	140 x 28 x 18 x 14,5	**142,20**			
M 26x1,50	24,50	D	140 x 28 x 18 x 14,5	**101,62**	**116,81**	**197,33**	**130,14**
M 26x2,00	24,00	D	140 x 28 x 18 x 14,5	**119,95**	**121,79**		**126,35**
M 27x1,00	26,00	D	140 x 28 x 20 x 16,0	**137,25**	**142,21**		
M 27x1,50	25,50	D	140 x 28 x 20 x 16,0	**114,80**	**128,91**	**286,79**	**158,14**
M 27x2,00	25,00	D	140 x 28 x 20 x 16,0	**126,11** *	**150,41**		

* Consultare il prezzo delle serie di maschi e filiere a sinistra disponibili a Pag.215

MASCHI PER FILETTARE A MACCHINA HSSCo

M MF | DIN 13 60° p | **HSSCo 5%** | **TOL 6H** | **D CODOLO SOTTILE** | **DIN 376/374** | Vc 12 m/min

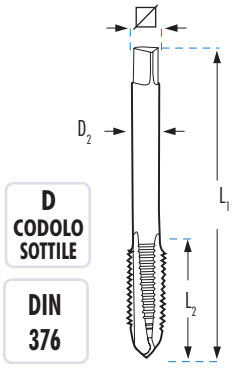
				M1D FORMA C	M2D FORMA B	M3D 15°	M4D 35°
	Ø	L1 x L2 x D2 x ⊠ mm		€	€	€	€
M 27x3,00	**24,00**	D	160 x 36 x 20 x 16	**101,96***	**111,79**	**122,98**	**122,72**
M 28x1,00	27,00	D	140 x 28 x 20 x 16	**276,80**			
M 28x1,50	26,50	D	140 x 28 x 20 x 16	**114,80**	**133,58**	**149,34**	**140,02**
M 28x2,00	26,00	D	140 x 28 x 20 x 16	**137,76**	**145,23**	**176,01**	**157,76**
M 30x1,00	29,00	D	150 x 28 x 22 x 18	**155,64**	**161,98**		**177,20**
M 30x1,50	28,50	D	150 x 28 x 22 x 18	**119,65**	**139,58**	**161,97**	**160,19**
M 30x2,00	28,00	D	150 x 28 x 22 x 18	**144,82***	**162,92**		**177,62**
M 30x3,50	**26,50**	D	180 x 40 x 22 x 18	**130,64***	**143,64**	**157,61**	**157,28**
M 32x1,00	31,00	D	150 x 28 x 22 x 18	**355,41**	**377,39**		
M 32x1,50	30,50	D	150 x 28 x 22 x 18	**151,42**	**176,21**	**199,53**	
M 32x2,00	30,00	D	150 x 28 x 22 x 18	**172,64**	**202,38**		
M 33x1,00	32,00	D	160 x 30 x 25 x 20	**339,91**			
M 33x1,50	31,50	D	160 x 30 x 25 x 20	**174,11**	**191,77**		**214,95**
M 33x2,00	31,00	D	160 x 30 x 25 x 20	**195,70**	**195,21**		**221,49**
M 33x3,50	**29,50**	D	180 x 40 x 25 x 20	**156,98***	**180,65**		**200,37**
M 34x1,50	32,50	D	170 x 30 x 28 x 22	**193,91**	**201,46**		
M 34x2,00	32,00	D	160 x 30 x 28 x 22	**423,51**			
M 35x1,50	33,50	D	170 x 30 x 28 x 22	**195,91**	**210,24**		**224,11**
M 35x2,00	33,00	D	170 x 30 x 28 x 22	**376,32**	**414,29**		
M 36x1,50	34,50	D	170 x 30 x 28 x 22	**182,94**	**229,26**		**267,25**
M 36x2,00	34,00	D	170 x 30 x 28 x 22	**233,37**	**238,99**		
M 36x3,00	33,00	D	200 x 50 x 28 x 22	**250,40**	**239,44**		**279,34**
M 36x4,00	**32,00**	D	200 x 50 x 28 x 22	**187,19***	**220,75**	**256,40**	**245,32**
M 38x1,50	36,50	D	170 x 30 x 28 x 22	**195,03**	**232,93**		
M 38x2,00	36,00	D	170 x 32 x 28 x 22	**439,40**	**483,38**		
M 39x1,50	37,50	D	170 x 32 x 32 x 24	**324,83**			
M 39x2,00	37,00	D	170 x 32 x 32 x 24	**324,83**			
M 39x3,00	36,00	D	200 x 47 x 32 x 24	**424,23**			
M 39x4,00	**35,00**	D	200 x 50 x 32 x 24	**233,21**	**256,97**		**273,08**
M 40x1,50	38,50	D	170 x 30 x 32 x 24	**255,01**	**290,92**		
M 40x2,00	38,00	D	170 x 30 x 32 x 24	**325,71**			
M 40x3,00	37,00	D	200 x 47 x 32 x 24	**283,86**	**292,10**		
M 42x1,50	40,50	D	170 x 30 x 32 x 24	**278,26**	**288,25**		
M 42x2,00	40,00	D	170 x 30 x 32 x 24	**372,62**			
M 42x3,00	39,00	D	200 x 45 x 32 x 24	**322,93**	**310,33**		
M 42x4,50	**37,50**	D	200 x 56 x 32 x 24	**269,90**	**299,18**		**396,63**
M 45x1,50	43,50	D	180 x 32 x 36 x 29	**332,33**	**387,47**		
M 45x2,00	43,00	D	180 x 32 x 36 x 29	**431,45**			
M 45x3,00	42,00	D	200 x 47 x 36 x 29	**431,45**			
M 45x4,50	**40,50**	D	220 x 58 x 36 x 29	**327,58**	**360,32**		
M 48x1,50	46,50	D	190 x 32 x 36 x 29	**327,58**			
M 48x2,00	46,00	D	190 x 32 x 36 x 29	**540,29**			
M 48x3,00	45,00	D	220 x 52 x 36 x 29	**522,83**			
M 48x5,00	**43,00**	D	250 x 65 x 36 x 29	**402,84**	**443,09**		
M 50x1,50	48,50	D	190 x 32 x 36 x 29	**397,03**			
M 52x1,50	50,50	D	190 x 32 x 40 x 32	**387,86**			
M 52x2,00	50,00	D	190 x 32 x 40 x 32	**650,61**			
M 52x3,00	49,00	D	225 x 50 x 40 x 32	**668,66**			
M 52x5,00	**47,00**	D	250 x 65 x 40 x 32	**437,31**	**491,53**		

* Consultare il prezzo delle serie di maschi e filiere a sinistra disponibili a Pag.215

MASCHI PER FILETTARE A MACCHINA HSSCo

UNC | 60° P | **HSSCo 5%** | **TOL 2B**

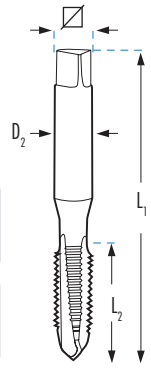




D CODOLO SOTTILE

DIN 376

Fino a 5/16-18h



R CODOLO RINFORZATO

DIN 371

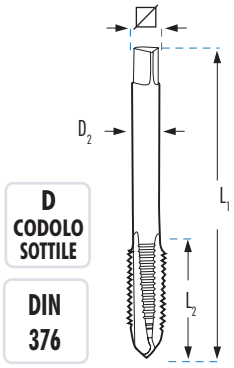


	D1 mm	Ø		L1 x L2 x D2 x ⊠ mm	M1R FORMA C €	M2R FORMA B €	M4R 35° €
UNC nº 4-40h	2,84	2,25	R	56 x 11 x 3,5 x 2,7	15,09	17,96	22,61
UNC nº 5-40h	3,17	2,60	R	56 x 11 x 3,5 x 2,7	15,65	18,77	22,61
UNC nº 6-32h	3,50	2,75	R	56 x 12 x 4,0 x 3,0	15,66	18,84	23,57
UNC nº 8-32h	4,17	3,50	R	63 x 13 x 4,5 x 3,4	15,66	18,84	22,54
UNC nº10-24h	4,83	3,90	R	70 x 15 x 6,0 x 4,9	15,65	18,77	23,64
UNC nº12-24h	5,49	4,50	R	80 x 16 x 6,0 x 4,9	16,42	18,77	22,73
UNC 1/4-20h	6,35	5,10	R	80 x 17 x 7,0 x 5,5	17,15	18,70	23,79
UNC 5/16-18h	7,94	6,60	R	90 x 20 x 8,0 x 6,2	21,40	23,59	28,67
CODOLO SOTTILE					M1D	M2D	M4D
UNC 3/8-16h	9,52	8,00	D	100 x 22 x 7,0 x 5,5	24,10	25,24	30,29
UNC 7/16-14h	11,11	9,40	D	100 x 22 x 8,0 x 6,2	31,35	31,46	39,90
UNC 1/2-13h	12,70	10,75	D	110 x 24 x 9,0 x 7,0	28,68	31,77	39,95
UNC 9/16-12h	14,28	12,20	D	110 x 26 x 11,0 x 9,0	46,12	50,61	56,75
UNC 5/8-11h	15,87	13,50	D	110 x 27 x 12,0 x 9,0	44,77	49,30	65,06
UNC 3/4-10h	19,05	16,50	D	125 x 30 x 14,0 x 11,0	73,03	80,27	91,32
UNC 7/8-9h	22,22	19,50	D	140 x 32 x 18,0 x 14,5	96,08	105,56	137,94
UNC 1"-8h	25,40	22,25	D	160 x 36 x 18,0 x 14,5	126,95	138,69	156,16
UNC 1.1/8-7h	28,57	25,00	D	180 x 40 x 22,0 x 18,0	158,59		191,59
UNC 1.1/4-7h	31,75	28,00	D	180 x 40 x 22,0 x 18,0	185,91		245,10
UNC 1.3/8-6h	34,92	30,75	D	200 x 50 x 28,0 x 22,0	265,74		
UNC 1.1/2-6h	38,10	34,00	D	200 x 50 x 32,0 x 24,0	314,91		

MASCHI PER FILETTARE A MACCHINA HSSCo

UNF | 60° p | **HSSCo 5%** | **TOL 2B**

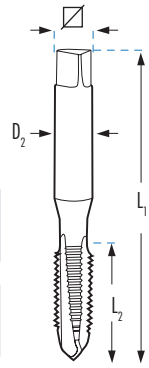




D
CODOLO SOTTILE

DIN 376

Fino a 5/16-24h



R
CODOLO RINFORZATO

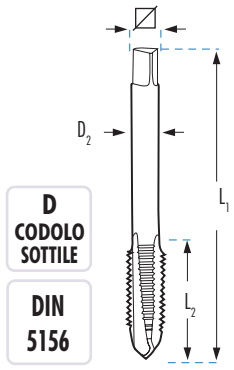
DIN 371



	D1 mm	Ø		L1 x L2 x D2 x ⊠ mm	M1R FORMA C €	M2R FORMA B €	M4R 35° €
UNF nº 4-48h	2,84	2,35	R	56 x 11 x 3,5 x 2,7	16,42	17,88	22,62
UNF nº 5-44h	3,17	2,70	R	56 x 11 x 3,5 x 2,7	16,42	17,88	22,62
UNF nº 6-40h	3,50	2,95	R	56 x 12 x 4,0 x 3,0	14,88	17,82	22,65
UNF nº 8-36h	4,17	3,50	R	63 x 13 x 4,5 x 3,4	14,88	17,82	22,65
UNF nº10-32h	4,83	4,10	R	70 x 15 x 6,0 x 4,9	14,88	17,82	22,65
UNF nº12-28h	5,49	4,60	R	80 x 16 x 6,0 x 4,9	15,00	17,97	22,62
UNF 1/4-28h	6,35	5,50	R	80 x 17 x 7,0 x 5,5	16,68	17,88	22,56
UNF 5/16-24h	7,94	6,90	R	90 x 20 x 8,0 x 6,2	19,69	22,54	27,33
CODOLO SOTTILE					**M1D**	**M2D**	**M4D**
UNF 3/8-24h	9,52	8,50	D	90 x 16 x 7,0 x 5,5	21,84	25,24	31,35
UNF 7/16-20h	11,11	9,90	D	100 x 22 x 8,0 x 6,2	24,84	29,97	39,67
UNF 1/2-20h	12,70	11,50	D	100 x 22 x 9,0 x 7,0	24,99	30,09	40,04
UNF 9/16-18h	14,29	12,90	D	100 x 22 x 11,0 x 9,0	37,49	45,15	56,93
UNF 5/8-18h	15,87	14,50	D	100 x 22 x 12,0 x 9,0	37,63	45,28	63,61
UNF 3/4-16h	19,05	17,50	D	110 x 25 x 14,0 x 11,0	56,89	68,49	81,38
UNF 7/8-14h	22,22	20,40	D	125 x 25 x 18,0 x 14,5	71,53	86,14	124,46
UNF 1"-12h	25,40	23,25	D	140 x 28 x 18,0 x 14,5	87,03	109,75	136,00
UNS 1"-14h	25,40	23,60	D	140 x 28 x 18,0 x 14,5	95,93	112,85	146,49
UNF 1.1/8-12h	28,57	26,50	D	150 x 28 x 22,0 x 18,0	153,51		
UNF 1.1/4-12h	31,75	29,50	D	150 x 28 x 22,0 x 18,0	194,00		
UNF 1.1/2-12h	38,10	36,00	D	170 x 30 x 32,0 x 24,0	325,57		

MASCHI PER FILETTARE A MACCHINA HSSCo

BSP (GAS) | 55° | **HSSCo 5%** | **TOL ISO 228** | **INOX**



D CODOLO SOTTILE

DIN 5156



	D1 mm	Ø	L1 x L2 x D2 x ☐ mm		M1D FORMA C €	M2D FORMA B €	M3D 15° €	M4D 35° €	M2DX FORMA B €	M4DX 35° €
G 1/8-28h.	9,728	8,80	D	90 x 16 x 7 x 5,5	29,55 *	31,87	34,27	35,85	46,20	51,89
G 1/4-19h.	13,157	11,80	D	100 x 22 x 11 x 9,0	38,24 *	42,11	49,20	51,01	56,84	64,21
G 3/8-19h.	16,662	15,25	D	100 x 22 x 12 x 9,0	46,94 *	48,70	58,77	61,46	67,42	81,55
G 1/2-14h.	20,955	19,00	D	125 x 25 x 16 x 12,0	62,02 *	68,24	74,13	75,93	98,66	113,68
G 5/8-14h.	22,911	21,00	D	125 x 25 x 18 x 14,5	77,29 *	76,46	92,31	90,41		
G 3/4-14h.	26,441	24,50	D	140 x 28 x 20 x 16,0	97,07	106,85	116,04	121,35	158,82	209,13
G 7/8-14h.	30,201	28,25	D	150 x 28 x 22 x 18,0	105,01	110,45	156,06	156,06		
G 1"-11h.	33,249	30,75	D	160 x 30 x 25 x 20,0	150,69	156,35	178,16	186,34		
G 1.1/8-11h.	37,897	35,50	D	170 x 30 x 28 x 22,0	207,63	226,47		275,75		
G 1.1/4-11h.	41,910	39,50	D	170 x 30 x 32 x 24,0	256,79	270,20		291,44		
G 1.3/8-11h.	44,323	42,00	D	180 x 32 x 36 x 29,0	322,94			436,98		
G 1.1/2-11h.	47,803	45,25	D	190 x 32 x 36 x 29,0	283,49	395,17		426,36		
G 1.3/4-11h.	53,746	51,25	D	190 x 32 x 40 x 32,0	511,90	493,31				
G 2"-11h.	59,614	57,00	D	220 x 36 x 45 x 35,0	652,86	667,67				

* Disponibili anche con filettatura sinistra al doppio del prezzo.

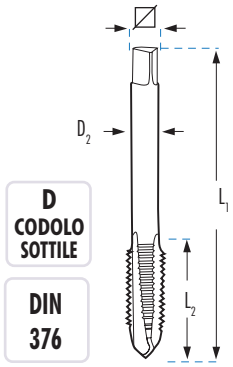
BSF | 55° | **HSSCo 5%** | **TOL ISO 228** | **Vc 12 m/min** | **D CODOLO SOTTILE** | **DIN 5156**

	D1 mm	Ø	L1 x L2 x D2 x ☐ mm		M1D FORMA C €
BSF 3/16-32h.	4,762	4,00	D	70 x 16 x 3,5 x 2,7	69,16
BSF 1/4-26h.	6,350	5,20	D	80 x 17 x 4,5 x 3,4	30,24
BSF 5/16-22h.	7,938	6,60	D	90 x 20 x 6,0 x 4,9	35,94
BSF 3/8-20h.	9,525	8,10	D	100 x 22 x 7,0 x 5,5	37,76
BSF 7/16-18h.	11,113	9,50	D	100 x 22 x 8,0 x 6,2	50,89
BSF 1/2-16h.	12,700	11,00	D	110 x 24 x 9,0 x 7,0	57,58
BSF 9/16-16h.	14,287	12,50	D	110 x 25 x 11,0 x 9,0	60,94
BSF 5/8-14h.	15,876	14,00	D	110 x 27 x 12,0 x 9,0	81,25
BSF 3/4-12h.	19,051	16,50	D	125 x 30 x 14,0 x 11,0	96,16
BSF 7/8-11h.	22,226	19,50	D	140 x 32 x 18,0 x 14,5	133,68
BSF 1"-10h.	25,400	22,50	D	160 x 36 x 18,0 x 14,5	155,38

MASCHI PER FILETTARE A MACCHINA HSSCo

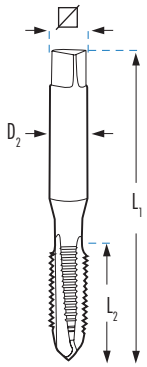
BSW | 55° | p | **HSSCo 5%** | **TOL Classe 2**

Vc 12 m/min



D
CODOLO SOTTILE
DIN 376

Fino a 3/8-16h



R
CODOLO RINFORZATO
DIN 371



	D1 mm	Ø		L1 x L2 x D2 x ☐ mm	M1R FORMA C €	M2R FORMA B €	M3R 15° €	M4R 35° €
W 3/32-48h.	2,38	1,80	R	50 x 9 x 2,8 x 2,1	21,51	20,97		
W 1/8-40h.	3,17	2,55	R	56 x 11 x 3,5 x 2,7	17,02 *	18,80	20,43	21,37
W 5/32-32h.	3,97	3,10	R	63 x 13 x 4,5 x 3,4	17,02	18,80	20,43	21,37
W 3/16-24h.	4,76	3,60	R	70 x 15 x 6,0 x 4,9	21,13	22,40	20,43	21,37
W 7/32-24h.	5,56	4,40	R	80 x 16 x 6,0 x 4,9	25,84	27,33		
W 1/4-20h.	6,35	5,10	R	80 x 17 x 7,0 x 5,5	18,20	19,01	23,18	23,94
W 5/16-18h.	7,94	6,50	R	90 x 20 x 8,0 x 6,2	21,60	24,10	27,06	28,30
W 3/8-16h.	9,52	7,90	R	100 x 22 x 10,0 x 8,0	22,82	26,96	30,06	31,45

CODOLO SOTTILE					M1D	M2D	M3D	M4D
W 7/16-14h.	11,11	9,25	D	100 x 22 x 8,0 x 6,2	31,73	34,89	39,71	39,98
W 1/2-12h.	12,70	10,50	D	110 x 24 x 9,0 x 7,0	30,44	33,14	38,03	39,77
W 9/16-12h.	14,29	12,00	D	110 x 26 x 11,0 x 9,0	43,63	45,82	54,55	57,05
W 5/8-11h.	15,87	13,40	D	110 x 27 x 12,0 x 9,0	41,31	45,38	51,58	53,94
W 3/4-10h.	19,05	16,50	D	125 x 30 x 14,0 x 11,0	57,81	63,61	69,11	72,27
W 7/8-9h.	22,22	19,25	D	140 x 32 x 18,0 x 14,5	74,87	82,31	93,53	93,53
W 1"-8h.	25,40	21,75	D	160 x 36 x 18,0 x 14,5	94,09	103,44	117,39	122,78
W 1.1/8-7h.	28,57	24,75	D	180 x 40 x 22,0 x 18,0	127,61	134,18	205,24	
W 1.1/4-7h.	31,75	27,75	D	180 x 40 x 22,0 x 18,0	185,39	183,95		
W 1.3/8-6h.	34,92	30,50	D	200 x 50 x 28,0 x 22,0	304,71	320,18		
W 1.1/2-6h.	38,10	33,50	D	200 x 50 x 32,0 x 24,0	330,74	347,85		
W 1.5/8-5h.	41,27	46,50	D	220 x 65 x 32,0 x 24,0	461,65	485,56		
W 1.3/4-5h.	44,45	39,00	D	220 x 58 x 36,0 x 29,0	476,20	523,82		
W 1.7/8-4,5h.	47,62	42,00	D	250 x 75 x 36,0 x 29,0	552,13	580,72		
W 2"-4,5h.	50,80	44,50	D	250 x 65 x 40,0 x 32,0	681,52			

* Disponibili anche con filettatura sinistra al doppio del prezzo.

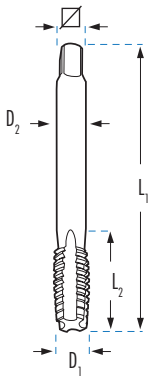
MASCHI PER FILETTARE A MACCHINA HSSCo

UNJC

60° P

HSSCo 5%

TOL 3B



Vc 12 m/min



	D1 mm	Ø	L1 x L2 x D2 x ⊠ mm	M1R FORMA C €
UNJC nº 4-40h	2,84	2,25	R 56 x 11 x 3,5 x 2,7	42,71
UNJC nº 5-40h	3,17	2,60	R 56 x 11 x 3,5 x 2,7	42,71
UNJC nº 6-32h	3,50	2,75	R 56 x 12 x 4,0 x 3,0	42,71
UNJC nº 8-32h	4,17	3,50	R 63 x 13 x 4,5 x 3,4	42,71
UNJC nº10-24h	4,83	3,90	R 70 x 15 x 6,0 x 4,9	42,71
UNJC nº12-24h	5,49	4,50	R 80 x 16 x 6,0 x 4,9	44,80
UNJC 1/4-20h	6,35	5,10	R 80 x 17 x 7,0 x 5,5	39,86
UNJC 5/16-18h	7,94	6,60	R 90 x 20 x 8,0 x 6,2	45,10
UNJC 3/8-16h	9,52	8,00	R 100 x 22 x 8,0 x 6,2	51,41

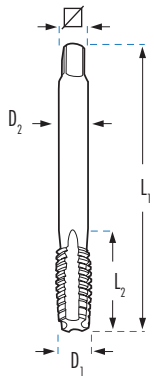
CODOLO SOTTILE PASSI NORMALI				M1D
UNJC 7/16-14h	11,11	9,40	D 110 x 24 x 9,0 x 7,0	70,90
UNJC 1/2-13h	12,70	10,75	D 110 x 26 x 11,0 x 9,0	76,97
UNJC 9/16-12h	14,28	12,20	D 110 x 27 x 12,0 x 9,0	105,77
UNJC 5/8-11h	15,87	13,50	D 110 x 27 x 12,0 x 9,0	115,55
UNJC 3/4-10h	19,05	16,50	D 125 x 30 x 14,0 x 11,0	136,04
UNJC 7/8-9h	22,22	19,50	D 140 x 32 x 18,0 x 14,5	179,00
UNJC 1"-8h	25,40	22,25	D 160 x 36 x 18,0 x 14,5	236,51

UNJF

60° P

HSSCo 5%

TOL 3B



Vc 12 m/min



	D1 mm	Ø	L1 x L2 x D2 x ⊠ mm	M1R FORMA C €
UNJF nº 4-48h	2,84	2,35	R 56 x 11 x 3,5 x 2,7	46,86
UNJF nº 5-44h	3,17	2,70	R 56 x 11 x 3,5 x 2,7	46,86
UNJF nº 6-40h	3,50	2,95	R 56 x 12 x 4,0 x 3,0	46,86
UNJF nº 8-36h	4,17	3,50	R 63 x 13 x 4,5 x 3,4	46,86
UNJF nº10-32h	4,83	4,10	R 70 x 15 x 6,0 x 4,9	46,86
UNJF nº12-28h	5,49	4,60	R 80 x 16 x 6,0 x 4,9	46,86
UNJF 1/4-28h	6,35	5,50	R 80 x 17 x 7,0 x 5,5	36,37
UNJF 5/16-24h	7,94	6,90	R 90 x 20 x 8,0 x 6,2	40,68
UNJF 3/8-24h	9,52	8,50	R 90 x 16 x 7,0 x 6,2	44,53

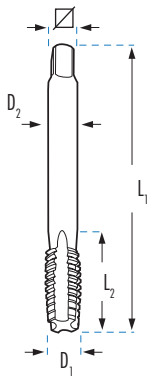
CODOLO SOTTILE PASSI NORMALI				M1D
UNJF 7/16-20h	11,11	9,90	D 100 x 22 x 8,0 x 6,2	61,16
UNJF 1/2-20h	12,70	11,50	D 100 x 22 x 9,0 x 7,0	65,13
UNJF 9/16-18h	14,29	12,90	D 100 x 22 x 11,0 x 9,0	80,02
UNJF 5/8-18h	15,87	14,50	D 100 x 22 x 12,0 x 9,0	90,09
UNJF 3/4-16h	19,05	17,50	D 110 x 25 x 14,0 x 11,0	115,25
UNJF 7/8-14h	22,22	20,40	D 125 x 25 x 18,0 x 14,5	144,93
UNJF 1"-12h	25,40	23,25	D 140 x 28 x 18,0 x 14,5	161,60

MASCHI PER FILETTARE A MACCHINA HSSCo

BSPP

DIN 2999 55° p

HSSCo 5% | DIN 374 | FORMA C





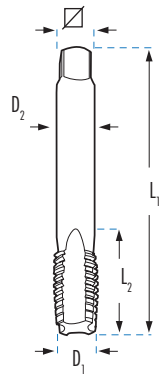
FILETTATURA CILINDRICA
INGLESE PER TUBI

	D1 mm		L1 x L2 x D2 x mm	M1D €
Rp 1/16-28h.	7,72	D	90 x 16 x 6 x 4,9	
Rp 1/8-28h.	9,73	D	90 x 16 x 7 x 5,5	51,43
Rp 1/4-19h.	13,16	D	100 x 22 x 11 x 9,0	71,04
Rp 3/8-19h.	16,66	D	100 x 22 x 12 x 9,0	85,06
Rp 1/2-14h.	20,95	D	125 x 25 x 16 x 12,0	107,49
Rp 3/4-14h.	26,44	D	140 x 28 x 20 x 16,0	168,33
Rp 1"-11h.	33,25	D	160 x 30 x 25 x 20,0	261,18
Rp 1.1/4-11h.	41,91	D	170 x 30 x 32 x 24,0	
Rp 1.1/2-11h.	46,80	D	190 x 32 x 36 x 29,0	
Rp 2"-11h.	59,61	D	220 x 36 x 45 x 35,0	

BSPT

BS21 ISO7/1 55° p 1:16

HSSCo 5% | DIN 5156 | FORMA C





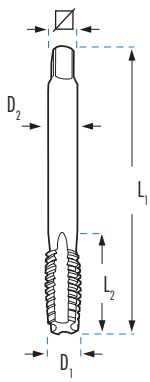
FILETTATURA CONICA
INGLESE PER TUBI

	D1 mm	Ø		L1 x L2 x D2 x mm	M1D €
Rc 1/16-28h.	7,72		D	90 x 14 x 6 x 4	
Rc 1/8-28h.	9,73	8,30	D	90 x 15 x 7 x 5	48,97
Rc 1/4-19h.	13,16	11,00	D	100 x 19 x 11 x 9	66,72
Rc 3/8-19h.	16,66	14,50	D	100 x 21 x 12 x 9	82,41
Rc 1/2-14h.	20,95	18,10	D	125 x 26 x 16 x 12	114,52
Rc 5/8-14h.	22,91	21,00	D	140 x 36 x 18 x 19	235,73
Rc 3/4-14h.	26,44	23,50	D	140 x 28 x 20 x 16	158,53
Rc 7/8-14h.	30,20	28,25	D	160 x 36 x 22 x 18	411,84
Rc 1"-11h.	33,25	29,60	D	160 x 33 x 25 x 20	294,41

NPS (M)

ANSI B 1.20.1 60° p

HSSCo 5% | DIN 374 | FORMA C





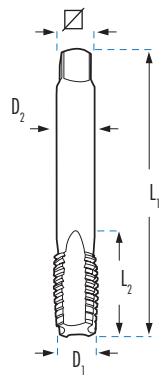
FILETTATURA CILINDRICA
AMERICANA PER TUBI

	D1 mm	Ø		L1 x L2 x D2 x mm	M1D €
NPS 1/8-27h.	10,20	8,90	D	90 x 16 x 7 x 5,5	137,57
NPS 1/4-18h.	13,60	11,70	D	100 x 22 x 11 x 9,0	196,88
NPS 3/8-18h.	17,00	15,00	D	100 x 22 x 12 x 9,0	269,98
NPS 1/2-14h.	21,20	18,60	D	125 x 25 x 16 x 12,0	370,21
NPS 3/4-14h.	26,55	24,00	D	140 x 28 x 20 x 16,0	547,29
NPS 1"-11,5 h.	33,20	30,00	D	160 x 30 x 25 x 20,0	707,73
NPS 1.1/4-11,5h.	41,60		D	170 x 30 x 32 x 24,0	
NPS 1.1/2-11,5h.	47,68		D	190 x 32 x 36 x 29,0	
NPS 2"-11,5h.	59,71		D	220 x 36 x 45 x 35,0	

NPT

ANSI B 1.20.1 60° p 1:16

HSSCo 5% | DIN 374 | FORMA C



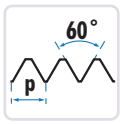


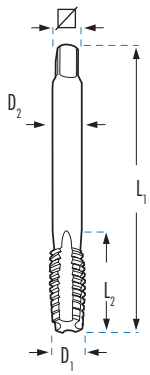
FILETTATURA CONICA
AMERICANA PER TUBI

	D1 mm	Ø		L1 x L2 x D2 x mm	M1D €
NPT 1/16-27h.	7,89	6,2	D	90 x 14 x 6 x 5	44,39
NPT 1/8-27h.	10,24	8,5	D	90 x 15 x 8 x 6	46,43
NPT 1/4-18h.	13,62	11,0	D	100 x 19 x 11 x 9	62,28
NPT 3/8-18h.	17,05	14,5	D	100 x 21 x 12 x 9	75,51
NPT 1/2-14h.	21,22	17,8	D	125 x 26 x 16 x 12	104,11
NPT 3/4-14h.	26,57	23,0	D	140 x 28 x 20 x 16	161,33
NPT 1"-11,5h.	33,23	29,0	D	160 x 33 x 25 x 20	209,66
NPT 1.1/4-11,5h.	41,98	37,5	D	170 x 36 x 32 x 24	275,78
NPT 1.1/2-11,5h.	48,05	44,0	D	190 x 37 x 36 x 29	450,79
NPT 2"-11,5h.	60,09	56,0	D	220 x 41 x 45 x 35	707,11

MASCHI PER FILETTARE A MACCHINA HSSCo

NPSF — HSSCo 5% — DIN 374 — FORMA C



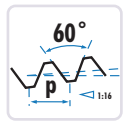


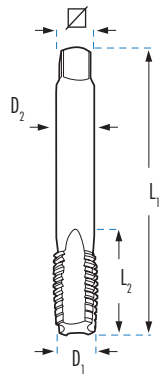


FILETTATURA PER TUBI
AMERICANA CILINDRICA

	D1 mm	Ø		L1 x L2 x D2 x ⊠ mm	M1D €
NPSF 1/8-27h.	10,05	8,75	D	90 x 16 x 7 x 5,5	165,92
NPSF 1/4-18h.	13,33	11,30	D	100 x 22 x 11 x 9,0	228,71
NPSF 3/8-18h.	16,78	14,70	D	100 x 22 x 12 x 9,0	325,36
NPSF 1/2-14h.	20,87	18,20	D	125 x 25 x 16 x 12,0	405,73
NPSF 3/4-14h.	26,23	23,50	D	140 x 28 x 20 x 16,0	664,04
NPSF 1"-11,5h.	32,81	29,50	D	160 x 30 x 25 x 20,0	

NPTF — HSSCo 5% — DIN 374 — FORMA C



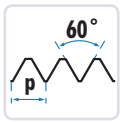


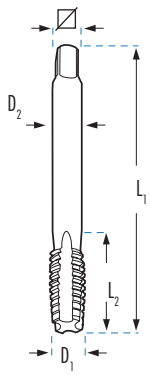


FILETTATURA PER TUBI
AMERICANA CONICA A TENUTA STAGNA

	D1 mm	Ø		L1 x L2 x D2 x ⊠ mm	M1D €
NPTF 1/16-27h.	7,87	6,20	D	90 x 14 x 12,0 x 6	
NPTF 1/8-27h.	10,22	8,50	D	90 x 15 x 12,0 x 7	105,77
NPTF 1/4-18h.	13,58	11,00	D	100 x 21 x 17,5 x 11	148,37
NPTF 3/8-18h.	17,02	14,50	D	110 x 21 x 17,6 x 12	190,62
NPTF 1/2-14h.	21,21	17,80	D	140 x 27 x 22,8 x 16	248,14
NPTF 3/4-14h.	26,56	23,00	D	140 x 27 x 23,0 x 20	384,41

MF — HSSCo 5% — TOL 6H — FORMA C — DIN 374



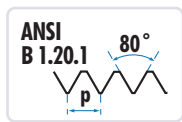


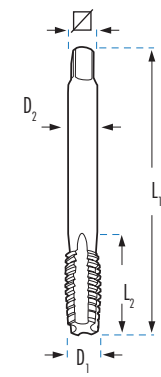


FILETTATURA METRICA FINE PER TUBI DI
CONDUZIONE ELETTRICA
EN 60423

	D1 mm	Ø		L1 x L2 x D2 x ⊠ mm	M1D €
MF 12 x 1,50	12	10,5	D	100 x 22 x 9 x 7,0	26,44
MF 16 x 1,50	16	14,5	D	100 x 22 x 12 x 9,0	37,24
MF 20 x 1,50	20	18,5	D	125 x 25 x 16 x 12,0	55,83
MF 25 x 1,50	25	23,5	D	140 x 28 x 18 x 14,5	121,43
MF 32 x 1,50	32	30,5	D	150 x 28 x 22 x 18,0	151,42
MF 40 x 1,50	40	38,5	D	170 x 30 x 32 x 24,0	255,01
MF 50 x 1,50	50	48,5	D	190 x 32 x 36 x 29,0	397,03
MF 63 x 1,50	63	61,5	D	275 x 36 x 50 x 39,0	

PG — HSSCo 5% — DIN 40430 — FORMA C







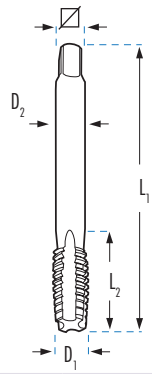
FILETTATURA PER TUBI
DI CONDUZIONE
ELETTRICA

	D1 mm	Ø		L1 x L2 x D2 x ⊠ mm	M1D €
PG 7 - 20h.	12,5	11,50	D	100 x 22 x 9 x 7,0	49,19
PG 9 - 18h.	15,2	14,00	D	100 x 22 x 12 x 9,0	68,11
PG 11 - 18h.	18,6	17,25	D	110 x 25 x 14 x 11,0	88,65
PG 13,5 -18h.	20,4	19,00	D	125 x 25 x 16 x 12,0	99,54
PG 16 -18h.	22,5	21,25	D	125 x 25 x 18 x 14,5	117,15
PG 21 -16h.	28,3	27,00	D	150 x 28 x 22 x 18,0	185,99
PG 29 -16h.	37,0	35,50	D	170 x 30 x 28 x 22,0	314,39
PG 36 -16h.	47,0	45,50	D	190 x 32 x 36 x 29,0	510,60
PG 42 -16h.	54,0	52,50	D	190 x 32 x 40 x 32,0	810,94
PG 48 -16h.	59,3	58,00	D	220 x 36 x 45 x 35,0	988,59

MASCHI PER FILETTARE A MACCHINA HSSCo

UNx8 | HSSCo 5% | DIN 374 | FORMA C | TOL 2B

ANSI/ASME B 1.1 60° p

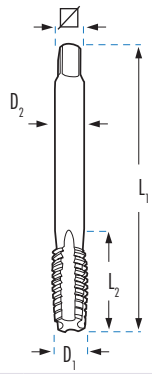




			M1D
Ø	D2 mm	L1 x L2 x ⊠ mm	FORMA C €
UN 1" 1/8-8h.	25,40	22	180 x 45 x 18	307,69
UN 1" 1/4-8h.	28,50	22	180 x 48 x 18	396,95
UN 1" 3/8-8h.	31,75	28	200 x 56 x 22	450,29
UN 1" 1/2-8h.	35,00	32	200 x 58 x 22	537,46
UN 1" 5/8-8h.	38,10	32	200 x 65 x 24	628,71
UN 1" 3/4-8h.	41,25	36	200 x 50 x 29	765,89
UN 1" 7/8-8h.	44,45	36	225 x 53 x 29	856,95
UN 2"-8h.	47,63	40	225 x 50 x 32	902,69

UNEF | HSSCo 5% | DIN 374 | TOL 2B

ANSI/ASME B 1.1 60° p





				M2D	M4D
Ø	D2 mm	L1 x L2 x ⊠ mm		FORMA B €	35° €
UNEF 1/4-32h.	5,55	7,0	R	82 x 16 x 5,4	101,20	113,72
UNEF 5/16-32h.	7,15	8,4	R	85 x 21 x 6,1	111,49	125,27
UNEF 3/8-32h.	8,70	7,0	D	95 x 22 x 5,4	111,56	125,35
UNEF 7/16-28h.	10,20	8,0	D	100 x 22 x 6,2	148,06	166,37
UNEF 1/2-28h.	11,80	9,0	D	100 x 22 x 7,0	155,97	175,23
UNEF 9/16-24h.	13,20	12,0	D	100 x 24 x 9,0	195,39	219,56
UNEF 5/8-24h.	14,80	12,0	D	100 x 24 x 9,0	222,34	249,83
UNEF 3/4-20h.	17,80	14,0	D	110 x 27 x11,0	289,18	324,94
UNEF 7/8-20h.	20,95	18,0	D	125 x 26 x14,5	310,85	333,05
UNEF 1"-20h.	24,20	18,0	D	140 x 28 x14,5	475,70	534,48

MASCHI PER FILETTARE A MACCHINA HSSCo A SINISTRA

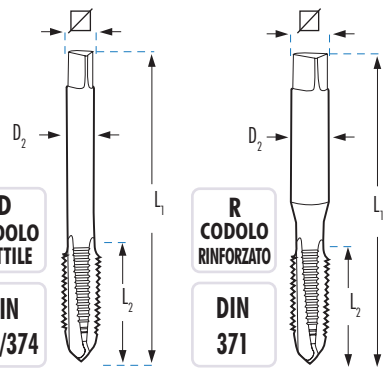
M MF | HSSCo 5% | FORMA C | TOL 6H

DIN 13 60° p

Vc 12 m/min



A SINISTRA



D CODOLO SOTTILE DIN 376/374

R CODOLO RINFORZATO DIN 371



				M1RI
Ø	L1 x L2 x D2 x ⊠ mm			FORMA C €
M 3x0,50	2,50	R	56 x 11 x 3,5 x 2,7	23,90
M 4x0,70	3,30	R	63 x 13 x 4,5 x 3,4	26,67
M 5x0,80	4,20	R	70 x 16 x 6,0 x 4,9	24,34
M 6x1,00	5,00	R	80 x 17 x 6,0 x 4,9	26,86
M 7x1,00	6,00	R	80 x 17 x 7,0 x 5,5	35,93
M 8x1,25	6,80	R	90 x 20 x 8,0 x 6,2	31,29
M 10x1,50	8,50	R	100 x 22 x 10,0 x 8,0	34,82
	CODOLO SOTTILE			M1DI
M 12x1,50	10,50	D	100 x 22 x 9,0 x 7,0	52,88
M 12x1,75	10,20	D	110 x 24 x 9,0 x 7,0	38,14
M 14x1,50	12,50	D	100 x 22 x 11,0 x 9,0	63,00
M 14x2,00	12,00	D	110 x 26 x 11,0 x 9,0	62,56
M 16x1,50	14,50	D	100 x 22 x 12,0 x 9,0	74,49
M 16x2,00	14,00	D	110 x 27 x 12,0 x 9,0	73,61
M 18x1,50	16,50	D	110 x 25 x 14,0 x 11,0	98,57
M 18x2,50	15,50	D	125 x 30 x 14,0 x 11,0	99,92
M 20x1,50	18,50	D	125 x 25 x 16,0 x 12,0	111,66
M 20x2,50	17,50	D	140 x 32 x 16,0 x 12,0	112,73
M 22x2,50	19,50	D	140 x 32 x 18,0 x 14,5	136,44
M 24x2,00	22,00	D	140 x 28 x 18,0 x 14,5	198,91
M 24x3,00	21,00	D	160 x 34 x 18,0 x 14,5	163,34
M 27x3,00	24,00	D	160 x 36 x 20,0 x 16,0	203,91
M 30x2,00	28,00	D	150 x 28 x 22,0 x 18,0	289,63
M 30x3,50	26,50	D	180 x 40 x 22,0x 18,0	261,28
M 33x3,50	29,50	D	180 x 40 x 25,0 x 20,0	313,95
M 36x4,00	32,00	D	200 x 50 x 28,0 x 22,0	374,39

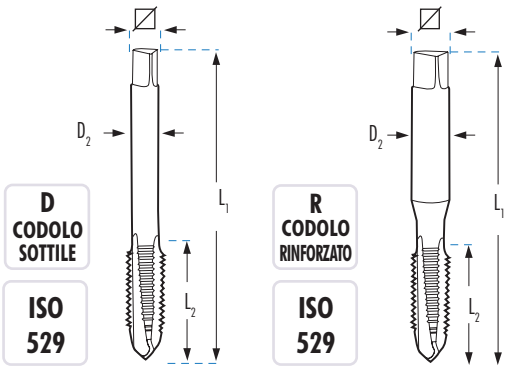
Consultare altre misure disponibili su richiesta.

MASCHI A MACCHINA METRICA NORMA ISO 529

M
MF

DIN 13 — 60° — p

HSSCo 5% | **ISO 529** | **TOL 6H**



D
CODOLO SOTTILE
ISO 529

R
CODOLO RINFORZATO
ISO 529



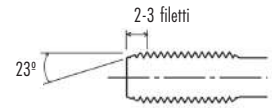
				M1RISO	M2RISO	M4RISO	M5RISO
	Ø		L1 x L2 x D2 x ☐ mm	FORMA C	FORMA B	35°	DENTI ALTERNATI Al
				€	€	€	€
M 3x0,50	2,50	R	48 x 11 x 3,15 x 2,50	8,88	9,26	11,15	12,02
M 4x0,70	3,30	R	53 x 13 x 4,00 x 3,15	8,88	9,26	11,15	12,02
M 5x0,80	4,20	R	58 x 16 x 5,00 x 4,00	8,88	9,26	11,15	12,02
M 6x1,00	5,00	R	66 x 19 x 6,30 x 5,00	8,88	9,26	11,39	12,02
M 7x1,00	6,00	R	66 x 19 x 7,10 x 5,60		12,63	15,47	
M 8x1,00	7,00	R	69 x 19 x 8,00 x 6,30		16,34	16,16	
M 8x1,25	6,75	R	72 x 22 x 8,00 x 6,30	11,87	12,37	12,78	13,14
M 9x1,25	7,75	R	76 x 20 x 10,00 x 8,00		17,66	19,37	
M 10x1,00	9,00	R	76 x 20 x 10,00 x 8,00		18,75	20,49	
M 10x1,25	8,80	R	76 x 20 x 10,00 x 8,00		22,41	23,14	
M 10x1,50	8,50	R	80 x 24 x 10,00 x 8,00	15,09	15,72	16,46	16,57
CODOLO SOTTILE				M1DISO	M2DISO	M4DISO	M5DISO
M 12x1,00	11,00	D	84 x 24 x 9,00 x 7,10		27,91	28,33	
M 12x1,25	10,75	D	84 x 24 x 9,00 x 7,10		28,19	28,13	
M 12x1,50	10,50	D	89 x 29 x 9,00 x 7,10		25,17	26,09	
M 12x1,75	10,20	D	89 x 29 x 9,00 x 7,10	17,56	20,20	21,40	24,80
M 14x1,00	13,00	D	90 x 25 x 11,20 x 9,00		35,83	43,72	
M 14x1,25	12,80	D	90 x 25 x 11,20 x 9,00		31,41	39,48	
M 14x1,50	12,50	D	95 x 30 x 12,50 x 9,00		24,94	31,12	
M 14x2,00	12,00	D	95 x 30 x 11,20 x 9,00	23,18	24,15	29,24	
M 16x1,00	15,00	D	95 x 25 x 12,50 x 10,00		49,05	50,65	
M 16x1,25	14,75	D	102 x 32 x 12,50 x 10,00		49,49	50,85	
M 16x1,50	14,50	D	102 x 32 x 14,00 x 10,00		34,70	38,98	
M 16x2,00	14,00	D	102 x 32 x 12,50 x 10,00	28,79	29,99	33,92	
M 18x1,50	16,50	D	104 x 29 x 14,00 x 11,20		45,86	55,66	
M 18x2,50	15,50	D	112 x 37 x 14,00 x 11,20	43,35	45,15	56,45	
M 20x1,50	18,50	D	104 x 29 x 14,00 x 11,20		52,15	59,87	
M 20x2,50	17,50	D	112 x 37 x 14,00 x 11,20	48,45	50,47	59,52	
M 22x2,50	19,50	D	118 x 38 x 16,00 x 12,50	56,03	58,36	72,95	
M 24x3,00	21,00	D	130 x 45 x 18,00 x 14,00	63,29	65,93	82,40	
M 27x3,00	24,00	D	135 x 45 x 20,00 x 16,00	77,94	81,19	101,48	
M 30x3,50	26,50	D	138 x 48 x 20,00 x 16,00	115,79	120,62	142,24	

MASCHI A MACCHINA CORTI DIN 352

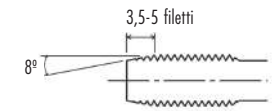
M
MF

DIN 13 — 60° — P

HSS | **HSSCo 5%** | **DIN 352** | **TOL 6H**



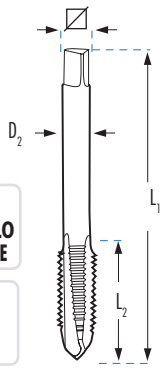
Ref. M03: Cono di entrata 2-3 filetti



Ref. M02AT: Cono di entrata 3,5-5 filetti

D
CODOLO SOTTILE

DIN 352





				M03	M02AT	M03X	M02DIN	M04DIN
	Ø	$L_1 \times L_2 \times D_2 \times$ mm		HSS €	ALTEZZA FINITA HSS €	INOX HSSCo €	FORMA B HSS €	35° HSS €
M 3x0,50	2,50	D	40 x 11 x 3,50 x 2,70	5,05	6,70	11,43	10,19	12,26
M 4x0,70	3,30	D	45 x 13 x 4,50 x 3,40	5,05	6,69	11,43	10,19	12,26
M 5x0,80	4,20	D	50 x 16 x 6,00 x 4,90	5,64	7,47	11,59	10,19	12,26
M 6x1,00	5,00	D	50 x 19 x 6,00 x 4,90	5,70	7,56	11,57	10,19	12,54
M 7x1,00	6,00	D	50 x 19 x 6,00 x 4,90	7,51				
M 8x1,00	7,00	D	56 x 18 x 6,00 x 4,90	10,63				
M 8x1,25	6,75	D	56 x 22 x 6,00 x 4,90	6,23	8,26	13,28	13,59	15,84
M 9x1,25	7,75	D	63 x 18 x 7,00 x 5,50	8,46				
M 10x1,00	9,00	D	63 x 18 x 7,00 x 5,50	12,50				
M 10x1,25	8,80	D	70 x 24 x 7,00 x 5,50	11,64				
M 10x1,50	8,50	D	70 x 24 x 7,00 x 5,50	8,02	10,64	17,76	17,28	19,31
M 12x1,00	11,00	D	70 x 20 x 9,00 x 7,00	20,49				
M 12x1,25	10,75	D	70 x 20 x 9,00 x 7,00	20,42				
M 12x1,50	10,50	D	70 x 20 x 9,00 x 7,00	18,84				
M 12x1,75	10,20	D	75 x 29 x 9,00 x 7,00	10,11	13,40	23,18	20,98	25,62
M 14x1,00	13,00	D	70 x 20 x 11,00 x 9,00	31,82				
M 14x1,25	12,80	D	70 x 20 x 11,00 x 9,00	23,74				
M 14x1,50	12,50	D	70 x 20 x 11,00 x 9,00	20,34				
M 14x2,00	12,00	D	80 x 30 x 11,00 x 9,00	13,02	17,25	29,24	26,57	32,16
M 16x1,00	15,00	D	70 x 20 x 12,00 x 9,00	34,70				
M 16x1,25	14,75	D	70 x 20 x 12,00 x 9,00	34,91				
M 16x1,50	14,50	D	70 x 20 x 12,00 x 9,00	25,00				
M 16x2,00	14,00	D	80 x 32 x 12,00 x 9,00	15,61		35,67	32,99	37,31
M 18x1,50	16,50	D	80 x 22 x 14,00 x 11,00	25,51				
M 18x2,50	15,50	D	95 x 40 x 14,00 x 11,00	20,74		46,72	48,84	55,89
M 20x1,50	18,50	D	80 x 22 x 16,00 x 12,00	27,63				
M 20x2,50	17,50	D	95 x 40 x 16,00 x 12,00	22,89		52,59	55,52	58,93
M 22x2,50	19,50	D	100 x 40 x 18,00 x 14,50	32,02			64,19	72,23
M 24x3,00	21,00	D	110 x 50 x 18,00 x 14,50	37,10			72,52	81,59
M 27x3,00	24,00	D	110 x 50 x 20,00 x 16,00	48,29			94,49	103,74
M 30x3,50	26,50	D	125 x 50 x 22,00 x 18,00	61,19			129,43	132,94

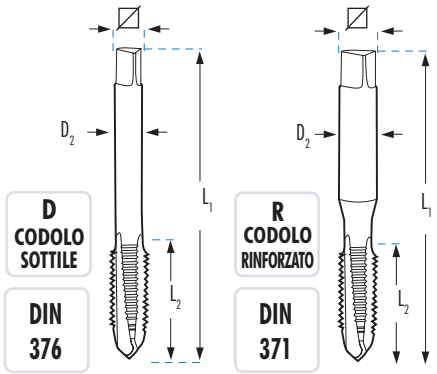
MASCHI A MACCHINA E FILIERE SERIE *Plus* E *SuperPlus*

Plus | DIN 13 | TOL 6H

PER LAVORAZIONI DI ALTA PRODUZIONE
FABBRICATI IN ACCIAIO SINTERIZZATO

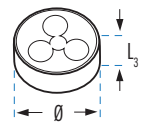
DIN 22568 | TOL 6g







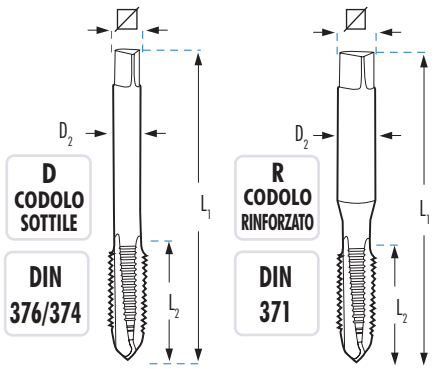
LAPPATURA E ROMPITRUCIOLO



				M2RP	M4RP	M2RT	M4RT	M2RHL	M4RHL	M2RSP	M4RSP		C5P
QUALITÀ				★★	★★	★★★	★★★	★★★★	★★★★	★★ ★★★	★★ ★★★		
MATERIALE				HSS PM	HSS PM	HSSCo 5%	HSSCo 5%	HSS PM	HSS PM	HSS V3	HSS V3		HSS
FINITURA				BRILLANTE	BRILLANTE	TiN	TiN	HARD LUBE	HARD LUBE	ALTiN	ALTiN		BRILLANTE
ANGOLO DELL'ELICA				FORMA B	35°	FORMA B	35°	FORMA B	35°	FORMA B	41°		
		Ø	L1 x L2 x D2 x ☐ mm	€	€	€	€	€	€	€	€	Ø x L_3 mm	€
M 3x0,50	2,50	R	56 x 11 x 3,5 x 2,7	14,31	17,68	20,78	23,37	23,88	25,86	44,51	46,58	25 x 9	26,85
M 4x0,70	3,30	R	63 x 13 x 4,5 x 3,4	14,62	17,68	21,91	24,41	24,23	26,21	44,51	46,58	25 x 9	26,85
M 5x0,80	4,20	R	70 x 16 x 6,0 x 4,9	14,62	16,96	21,91	23,92	24,23	26,21	47,00	48,29	25 x 9	26,85
M 6x1,00	5,00	R	80 x 17 x 6,0 x 4,9	16,09	18,61	24,30	26,31	26,63	27,74	47,00	48,29	25 x 9	26,85
M 8x1,00	7,00	D	90 x 20 x 6,0 x 4,9	22,94	27,24	31,74	35,31	37,46	41,70			25 x 9	36,07
M 8x1,25	6,80	R	90 x 20 x 8,0 x 6,2	18,84	21,63	28,14	30,88	31,42	35,29	59,66	63,58	25 x 9	28,06
M 10x1,00	9,00	D	90 x 16 x 7,0 x 5,5	25,60	32,11	37,07	42,57	43,75	51,70			30 x 10	44,09
M 10x1,50	8,50	R	100 x 22 x 10,0 x 8,0	22,14	25,19	33,60	36,65	38,94	43,92	71,10	75,84	30 x 10	40,04
CODOLO SOTTILE				**M2DP**	**M4DP**	**M2DT**	**M4DT**	**M2DHL**	**M4DHL**	**M2DSP**	**M4DSP**		
M 12x1,50	10,50	D	100 x 22 x 9,0 x 7,0	30,37	36,70	42,43	47,80	48,97	56,18			38 x 10	49,88
M 12x1,75	10,20	D	110 x 24 x 9,0 x 7,0	28,54	33,88	41,63	46,52	43,49	52,68	89,46	97,05	38 x 14	44,03
M 14x1,50	12,50	D	100 x 22 x 11,0 x 9,0	35,96	45,11	49,00	56,20	57,60	66,05			38 x 10	52,14
M 14x2,00	12,00	D	110 x 26 x 11,0 x 9,0	35,69	41,38	50,89	55,95	58,21	63,98	91,35	122,99	38 x 14	44,89
M 16x1,50	14,50	D	100 x 22 x 12,0 x 9,0	45,00	55,48	58,87	67,34	64,46	66,38			45 x 14	71,61
M 16x2,00	14,00	D	110 x 27 x 12,0 x 9,0	41,99	50,00	58,12	65,46	66,44	73,45	124,69	132,63	45 x 18	60,29
M 18x2,50	15,50	D	125 x 30 x 14,0 x 11,0	59,49	67,23	73,63	80,33	88,57	99,74	185,06	200,22	45 x 18	60,29
M 20x2,50	17,50	D	140 x 32 x 16,0 x 12,0	64,30	71,67	83,92	90,42	98,64	112,30	197,23	208,48	45 x 18	60,29
M 22x2,50	19,50	D	140 x 32 x 18,0 x 14,5	77,79	88,43	98,42	107,40	115,67	126,22			55 x 22	90,48
M 24x3,00	21,00	D	160 x 34 x 18,0 x 14,5	92,48	105,87	110,91	122,86	130,34	144,38			55 x 22	90,48

MASCHI A MACCHINA PER LAVORAZIONI SPECIALI HSS-PM

INOX | **M** | DIN 13 60° p | **TOL 6H**





				M2RX	M4RX	M2RXT	M4RXT	M2RXHL	M4RXHL
			QUALITÀ	★★	★★	★★★	★★★	★★★★	★★★★
			MATERIALE	HSS PM	HSS PM	HSSCo 5%	HSSCo 5%	HSS PM	HSS PM
			FINITURA	OX	OX	TiN	TiN	HARD LUBE	HARD LUBE
			ANGOLO DELL'ELICA	FORMA B	35°	FORMA B	35°	FORMA B	35°
	Ø		$L_1 \times L_2 \times D_2 \times$ ⊠ mm	€	€	€	€	€	€
M 3x0,50	2,50	R	56 x 11 x 3,5 x 2,7	17,72	20,57	20,72	24,36	27,94	32,87
M 4x0,70	3,30	R	63 x 13 x 4,5 x 3,4	17,96	20,57	21,75	25,26	29,36	34,40
M 5x0,80	4,20	R	70 x 16 x 6,0 x 4,9	18,62	21,99	21,75	25,48	29,36	34,40
M 6x1,00	5,00	R	80 x 17 x 6,0 x 4,9	18,72	22,68	23,81	26,80	32,14	36,16
M 8x1,00	7,00	D	90 x 20 x 6,0 x 4,9	39,04	42,78				
M 8x1,25	6,80	R	90 x 20 x 8,0 x 6,2	21,95	26,16	26,59	30,57	35,89	41,24
M 10x1,00	9,00	D	90 x 16 x 7,0 x 5,5	40,24	42,96				
M 10x1,50	8,50	R	100 x 22 x 10,0 x 8,0	25,49	30,66	32,49	36,23	43,85	48,89

CODOLO SOTTILE				M2DX	M4DX	M2DXT	M4DXT	M2DXHL	M4DXHL
M 12x1,00	11,00	D	100 x 22 x 9,0 x 7,0	45,63	52,35				
M 12x1,50	10,50	D	100 x 22 x 9,0 x 7,0	46,32	54,77				
M 12x1,75	10,20	D	110 x 24 x 9,0 x 7,0	32,35	46,07	41,73	52,20	58,78	68,84
M 14x2,00	12,00	D	110 x 26 x 11,0 x 9,0	42,42	60,55	55,45	65,29	78,12	86,51
M 16x2,00	14,00	D	110 x 27 x 12,0 x 9,0	46,55	66,39	61,36	83,61	86,99	104,64
M 18x2,50	15,50	D	125 x 30 x 14,0 x 11,0	66,69	94,45	94,36	117,02	139,59	148,88
M 20x2,50	17,50	D	140 x 32 x 16,0 x 12,0	68,80	111,28	108,82	120,40	148,38	157,19
M 22x2,50	19,50	D	140 x 32 x 18,0 x 14,5	130,49	137,88	148,21	176,54		
M 24x3,00	21,00	D	160 x 34 x 18,0 x 14,5	137,19	157,47	151,10	180,56		
M 27x3,00	24,00	D	160 x 36 x 20,0 x 16,0	179,71	206,27				
M 30x3,50	26,50	D	180 x 40 x 22,0 x 18,0	229,81	263,78				



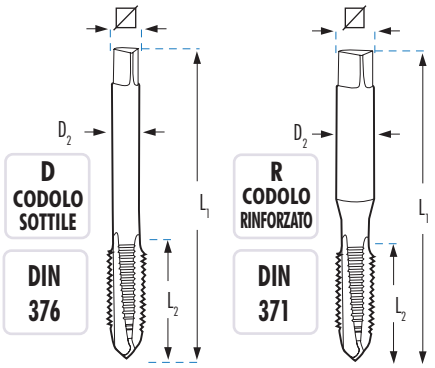
- Lubrificazione: **CUT MAGIC XTHICK**
- Si raccomanda l'applicazione dell'olio da taglio CUT MAGIC XTHICK per ottimizzare il processo di filettatura in Inox, Inconel, Titanio, Duplex, ecc...

Ref. ACXT00250

MASCHI *Super Plus* PER FILETTATURA DI LEGHE REFRATTIVE

M | DIN 13 60° p | TOL 6H | INOX DUPLEX | Ni | INC | Ti

PARTICOLARMENTE RACCOMANDATO IN APPLICAZIONI AERONAUTICHE





				M2RDU	M4RDU	M2RNI	M3RNI	M2RTIT	M3RTIT
QUALITÀ				★★★★	★★★★	★★★★	★★★★	★★★★	★★★★
MATERIALE				HSS V3	HSS V3	HSS PM	HSS PM	HSS PM	HSS PM
FINITURA				TiCN	TiCN	BRILLANTE	BRILLANTE	OX	OX
ANGOLO DELL'ELICA				FORMA B	41°	FORMA B	15°	FORMA B	15°
	Ø		L1 x L2 x D2 x ⊠ mm	€	€	€	€	€	€
M 3x0,50	2,50	R	56 x 11 x 3,5 x 2,7	45,12	46,22	83,85	85,68	62,24	68,70
M 4x0,70	3,30	R	63 x 13 x 4,5 x 3,4	45,12	46,52	85,68	87,99	64,20	68,70
M 5x0,80	4,20	R	70 x 16 x 6,0 x 4,9	46,63	47,54	88,69	90,78	65,81	73,19
M 6x1,00	5,00	R	80 x 17 x 6,0 x 4,9	47,93	48,96	89,40	91,92	65,81	74,20
M 8x1,25	6,80	R	90 x 20 x 8,0 x 6,2	66,94	69,78	101,02	103,71	76,04	85,68
M 10x1,50	8,50	R	100 x 22 x 10,0 x 8,0	86,75	89,01	120,04	123,70	94,19	103,23
CODOLO SOTTILE				**M2DDU**	**M4DDU**	**M2DNI**	**M3DNI**	**M2DTIT**	**M3DTIT**
M 12x1,75	10,20	D	110 x 24 x 9,0 x 7,0	117,30	126,65	154,38	170,71	118,20	128,28
M 14x2,00	12,00	D	110 x 26 x 11,0 x 9,0						
M 16x2,00	14,00	D	110 x 27 x 12,0 x 9,0	172,48	184,43				
M 18x2,50	15,50	D	125 x 30 x 14,0 x 11,0						
M 20x2,50	17,50	D	140 x 32 x 16,0 x 12,0	255,40	275,88				
M 22x2,50	19,50	D	140 x 32 x 18,0 x 14,5						
M 24x3,00	21,00	D	160 x 34 x 18,0 x 14,5	345,93	351,84				
M 27x3,00	24,00	D	160 x 36 x 20,0 x 16,0	444,42	465,86				
M 30x3,50	26,50	D	180 x 40 x 22,0 x 18,0	524,87	549,21				

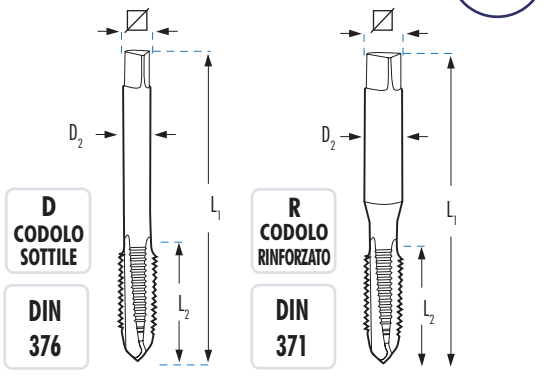
MASCHI A MACCHINA PER ACCIAIO STRUTTURALI EXTRA DOLCE < DE 450 N/mm²

DIN 13 — 60° — p | HSSCo 5% | OX | TOL 6H

APPLICAZIONI

450 N/mm² | ST52 | Al

Geometria di taglio specifica per materiali morbidi, non genera sovradimensionamento e si adatta perfettamente a questo tipo di materiali in cui i maschi convenzionali possono causare allargamenti durante la generazione del filo.





					M2RSS	M4RSS
	Ø		$L_1 \times L_2 \times D_2 \times$ ☐ mm		FORMA B	35°
					€	€
M 3 x 0,50	2,50	R	56 x 11 x 3,5 x 2,7		14,90	19,60
M 4 x 0,70	3,30	R	63 x 13 x 4,5 x 3,4		15,73	19,62
M 5 x 0,80	4,20	R	70 x 16 x 6,0 x 4,9		15,83	18,81
M 6 x 1,00	5,00	R	80 x 17 x 6,0 x 4,9		16,77	20,65
M 8 x 1,25	6,80	R	90 x 20 x 8,0 x 6,2		19,39	23,90
M 10 x 1,50	8,50	R	100 x 22 x 10,0 x 8,0		23,88	28,30
		CODOLO SOTTILE			M2DSS	M4DSS
M 12 x 1,75	10,20	D	110 x 24 x 9,0 x 7,0		27,09	32,80
M 14 x 2,00	12,00	D	110 x 26 x 11,0 x 9,0		38,68	45,51
M 16 x 2,00	14,00	D	110 x 27 x 12,0 x 9,0		43,16	52,52
M 18 x 2,50	15,50	D	125 x 30 x 14,0 x 11,0		61,48	74,00
M 20 x 2,50	17,50	D	140 x 32 x 16,0 x 12,0		71,97	78,99
M 22 x 2,50	19,50	D	140 x 32 x 18,0 x 14,5		86,38	96,29
M 24 x 3,00	21,00	D	160 x 34 x 18,0 x 14,5		101,77	117,02
M 27 x 3,00	24,00	D	160 x 36 x 20,0 x 16,0		128,71	143,99
M 30 x 3,50	26,50	D	180 x 40 x 22,0 x 18,0		165,36	184,53

MASCHI A MACCHINA PER LAVORAZIONI SPECIALI HSS-V3

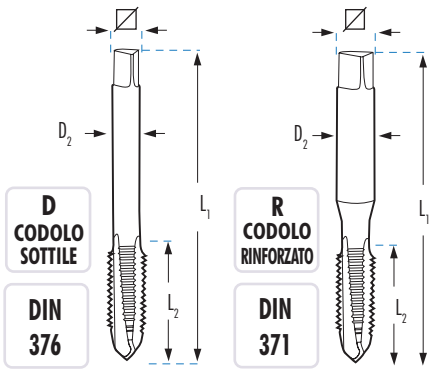
1200 N/mm²

DIN 13 — 60° — p

HSS V3

TOL 6H

MATERIALI DURI

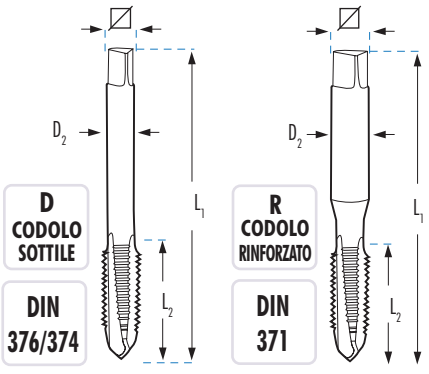




				M2RMD	M4RMD	M2RMDTX	M4RMDTX
			QUALITÀ	★★★	★★★	★★★★	★★★★
			MATERIALE	HSS V3	HSS V3	HSS V3	HSS V3
			FINITURA	OX	OX	TINALOX	TINALOX
			ANGOLO DELL'ELICA	FORMA B	35°	FORMA B	35°
		Ø	L1 x L2 x D2 x mm	€	€	€	€
M	3x0,50	2,50	R 56 x 11 x 3,5 x 2,7	18,35	21,08	26,17	30,77
M	4x0,70	3,30	R 63 x 13 x 4,5 x 3,4	19,07	21,08	27,49	32,21
M	5x0,80	4,20	R 70 x 16 x 6,0 x 4,9	19,07	20,97	27,49	32,21
M	6x1,00	5,00	R 80 x 17 x 6,0 x 4,9	20,90	23,06	30,10	33,87
M	8x1,25	6,80	R 90 x 20 x 8,0 x 6,2	23,55	25,78	33,61	38,64
M	10x1,50	8,50	R 100 x 22 x 10,0 x 8,0	27,14	29,97	42,53	47,44
			CODOLO SOTTILE	**M2DMD**	**M4DMD**	**M2DMDTX**	**M4DMDTX**
M	12x1,75	10,20	D 110 x 24 x 9,0 x 7,0	38,69	42,29	56,64	66,30
M	14x2,00	12,00	D 110 x 26 x 11,0 x 9,0	48,11	55,89	80,61	88,48
M	16x2,00	14,00	D 110 x 27 x 12,0 x 9,0	56,76	67,61	89,79	107,04
M	18x2,50	15,50	D 125 x 30 x 14,0 x 11,0	80,24	96,20	132,00	149,49
M	20x2,50	17,50	D 140 x 32 x 16,0 x 12,0	86,71	101,58	142,66	157,79

MASCHI A MACCHINA PER MATERIALI TEMPRATI (HARDOX 450/500)

1400 N/mm² | DIN 13 60° p | TOL 6H | HSSE | HSS PM | MD | MATERIALI MOLTO DURI | 48 HRc | 48-62 HRc





			M2RC	M3RC	M2HRC	M4HRC		M1RCM		M1RHMC
MATERIALE			HSSE	HSSE	HSS PM	HSS PM		HSS PM		MD
FINITURA			TiAlN	TiAlN	TINALOX	TINALOX		TiCN		TiCN
FORMA			FORMA B	15°	FORMA B	35°		FORMA C		FORMA C
	Ø	L1 x L2 x D2 x □ mm	€	€	€	€	Ø	€	Ø	€
M 3 x 0,50	2,50	R 56 x 11 x 3,5 x 2,7	29,52	31,41	41,71	46,70	2,60	47,28	2,60	122,41
M 4 x 0,70	3,30	R 63 x 13 x 4,5 x 3,4	29,58	33,44	43,31	48,52	3,40	41,59	3,40	122,41
M 5 x 0,80	4,20	R 70 x 16 x 6,0 x 4,9	29,85	32,68	43,73	48,97	4,30	46,47	4,30	122,41
M 6 x 1,00	5,00	R 80 x 17 x 6,0 x 4,9	32,28	36,18	45,61	51,08	5,10	59,50	5,10	153,01
M 8 x 1,25	6,80	R 90 x 20 x 8,0 x 6,2	37,29	42,55	56,70	63,50	6,90	66,00	6,90	172,21
M 10 x 1,50	8,50	R 100 x 22 x 10,0 x 8,0	44,64	52,71	67,86	71,25	8,60	85,56	8,60	264,23
CODOLO SOTTILE			M2DC	M3DC	M2HDC	M4HDC		M1RCM		M1DHMC
M 12 x 1,75	10,20	D 110 x 24 x 9,0 x 7,0	66,74	79,22	103,59	112,92	10,40	113,20 *	10,40	413,84
M 14 x 2,00	12,00	D 110 x 26 x 11,0 x 9,0	90,11	105,40	122,84	133,90	12,10	143,12 *	12,10	532,91
M 16 x 2,00	14,00	D 110 x 27 x 12,0 x 9,0	101,68	121,07	136,59	148,89	14,10	153,09 *	16,10	695,86
M 18 x 2,50	15,50	D 125 x 30 x 14,0 x 11,0	128,75	140,20	144,48	157,48			15,75	850,13
M 20 x 2,50	17,50	D 140 x 32 x 16,0 x 12,0	155,93	162,29	199,67	217,64			17,75	1.344,76
M 22 x 2,50	19,50	D 140 x 32 x 18,0 x 14,5	220,88	230,33						
M 24 x 3,00	21,00	D 160 x 34 x 18,0 x 14,5	226,13	236,63	269,93	294,22				
M 27 x 3,00	24,00	D 160 x 36 x 20,0 x 16,0	241,76	254,48						
M 30 x 3,50	26,50	D 180 x 40 x 22,0 x 18,0	253,31	268,13						

* Codolo Rinforzato: M12 - Ø 12 x 9
M14 - Ø 14 x 11
M16 - Ø 16 x 12



- Lubrificazione: **CUT MAGIC XTHICK**
- Si raccomanda di filettare il pezzo sulla stessa attrezzatura utilizzata per la foratura precedente e nella stessa posizione, per garantire co-assialità tra il maschio e il preforo.

Ref. ACXT00250

HRc	Vc (m/min)
48 Hrc	8 m/min
56 Hrc	6 m/min
62Hrc	3 m/min

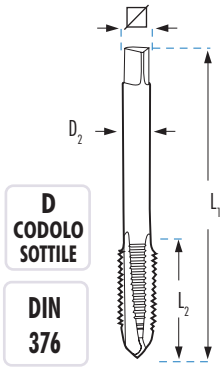
MASCHI A MACCHINA QUALSIASI TERRENO

QUALSIASI TERRENO | DIN 13 60° p | HSSCo 5% | TiN | TOL 6H

APPLICAZIONI

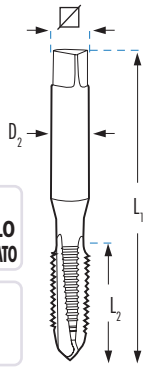
1200 N/mm² | Al | GHISA | Ti | INOX

Vc 13 m/min



D CODOLO SOTTILE

DIN 376



R CODOLO RINFORZATO

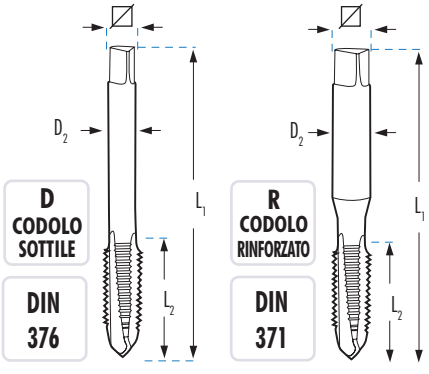
DIN 371



				M2RD	M4RD
	Ø	L1 x L2 x D2 x ☐ mm		FORMA B	35°
				€	€
M 3 x 0,50	2,50	R	56 x 11 x 3,5 x 2,7	21,91	26,79
M 4 x 0,70	3,30	R	63 x 13 x 4,5 x 3,4	23,22	26,79
M 5 x 0,80	4,20	R	70 x 16 x 6,0 x 4,9	26,91	30,60
M 6 x 1,00	5,00	R	80 x 17 x 6,0 x 4,9	27,83	31,75
M 8 x 1,25	6,80	R	90 x 20 x 8,0 x 6,2	32,61	36,24
M 10 x 1,50	8,50	R	100 x 22 x 10,0 x 8,0	37,63	42,90
		CODOLO SOTTILE		M2DD	M4DD
M 12 x 1,75	10,20	D	110 x 24 x 9,0 x 7,0	47,42	56,44
M 14 x 2,00	12,00	D	110 x 26 x 11,0 x 9,0	61,92	68,05
M 16 x 2,00	14,00	D	110 x 27 x 12,0 x 9,0	69,38	75,10
M 18 x 2,50	15,50	D	125 x 30 x 14,0 x 11,0	94,67	111,18
M 20 x 2,50	17,50	D	140 x 32 x 16,0 x 12,0	110,43	114,59

MASCHI A MACCHINA PER LAVORAZIONI SPECIALI HSSCo

Al | **GHISA** | **OTTONE** | DIN 13 (60°, p) | HSSCo 5% | MD | TOL 6H



D CODOLO SOTTILE — DIN 376

R CODOLO RINFORZATO — DIN 371



				M5R	M6R	M1RFM	MHM1R	M1RL	M1RLCRN
			APPLICAZIONE	Al	Al	GHISA	GHISA	OTTONE	OTTONE
			MATERIALE	HSSCo 5%	HSSCo 5%	HSSCo 5%	MD	HSSCo 5%	HSSCo 5%
			FINITURA	BRILLANTE	BRILLANTE	OX	BRILLANTE	BRILLANTE	CrN
			FORMA	DENTI ALTERNATI	2 CANALI	FORMA C	FORMA C	FORMA C	FORMA C
	ø		L1 x L2 x D2 x ⊠ mm	€	€	€	€	€	€
M 3x0,50	2,50	R	56 x 11 x 3,5 x 2,7	17,28	19,96	14,84	82,76	17,61	19,99
M 4x0,70	3,30	R	63 x 13 x 4,5 x 3,4	17,26	19,96	15,35	82,76	18,70	22,05
M 5x0,80	4,20	R	70 x 16 x 6,0 x 4,9	18,02	20,36	15,35	82,76	18,70	22,11
M 6x1,00	5,00	R	80 x 17 x 6,0 x 4,9	17,97	22,02	17,42	94,38	20,48	24,16
M 8x1,25	6,80	R	90 x 20 x 8,0 x 6,2	21,82	26,39	19,52	105,40	23,35	29,38
M 10x1,50	8,50	R	100 x 22 x 10,0 x 8,0	25,92	31,22	22,31	132,08	28,09	35,75
			CODOLO SOTTILE	**M5D**	**M6D**	**M1DFM**	**MHM1D**	**M1DL**	**M1DLCRN**
M 12x1,75	10,20	D	110 x 24 x 9,0 x 7,0	33,19	40,36	28,60	187,77	33,40	44,00
M 14x2,00	12,00	D	110 x 26 x 11,0 x 9,0	42,87	51,09	47,00	292,55	41,00	53,64
M 16x2,00	14,00	D	110 x 27 x 12,0 x 9,0	47,64	66,87	55,31	348,04	47,17	59,98
M 18x2,50	15,50	D	125 x 30 x 14,0 x 11,0			77,37	426,63	61,89	75,97
M 20x2,50	17,50	D	140 x 32 x 16,0 x 12,0			77,66	516,62	69,46	84,58

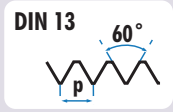


- Lubrificazione: **CUT MAGIC ALUMINIO**
- Si raccomanda l'applicazione dell'olio da taglio CUT MAGIC ALUMINIO per ottimizzare il processo di filettatura in alluminio e le sue ghise.

Ref. ACAL00250

MASCHI PER FILETTARE A MACCHINA PER LAMINAZIONE





HSSCo 5% | HSSCo 8% | TOL 6HX

APPLICAZIONI

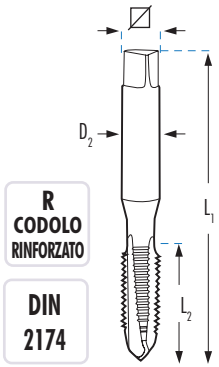


Al | GHISA

Plus



INOX



R CODOLO RINFORZATO

DIN 2174

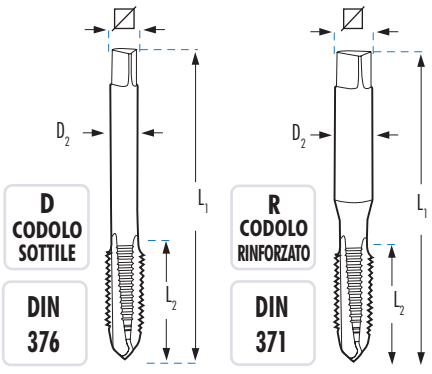


				M07R	M07RT	M07RCR	M07RCCR	M09RCCR	M07RXTCR
APPLICAZIONE				LAMINAZIONE	LAMINAZIONE	LAMINAZIONE	LAMINAZIONE	LAMINAZIONE	LAMINAZIONE
MATERIALE				HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 8%	HSSCo 5%
FINITURA				OX	TiN	OX	TiCN	TiCN	TiN
FORMA									
	Ø		L1 x L2 x D2 x ⊠ mm	€	€	€	€	€	€
M 3x0,50	2,75	R	56 x 11 x 3,5 x 2,7	26,22	36,87	33,96	51,72	117,35	87,52
M 3,5x0,60	3,20	R	56 x 11 x 3,5 x 2,7	27,56	39,15	37,20	54,73		
M 4x0,70	3,65	R	63 x 13 x 4,5 x 3,4	28,70	38,46	33,61	53,94	118,83	87,52
M 5x0,80	4,60	R	70 x 16 x 6,0 x 4,9	28,70	38,46	35,99	53,94	120,41	94,45
M 6x1,00	5,50	R	80 x 17 x 6,0 x 4,9	29,32	40,64	36,63	57,00	122,33	94,45
M 8x1,25	7,40	R	90 x 20 x 8,0 x 6,2	35,32	53,63	42,72	75,24	135,69	113,03
M 10x1,50	9,30	R	100 x 22 x 10,0 x 8,0	41,46	60,14	50,36	82,82	162,02	138,00
CODOLO SOTTILE				**M07D**	**M07DT**	**M07DCR**	**M07DCCR**	**M09DCCR**	**M07DXTCR**
M 12x1,75	11,20	D	110 x 24 x 9,0 x 7,0	50,88	75,74	59,34	105,64	191,78	179,71
M 14x2,00	13,05	D	110 x 26 x 11,0 x 9,0	91,75	124,22	98,97	169,37	238,67	258,51
M 16x2,00	15,05	D	110 x 27 x 12,0 x 9,0	107,72	139,90	116,18	198,74	328,27	262,99
M 18x2,50	16,80	D	125 x 30 x 14,0 x 11,0	131,01	161,08	141,31	211,83	388,95	
M 20x2,50	18,80	D	140 x 32 x 16,0 x 12,0	172,63	243,85	186,20	347,39	430,62	

MASCHI A MACCHINA HSSCO A TOLLERANZA SPECIALE E SOVRAMISURA

HSSCo 5%

TOL 4H | **TOL 6G** | **TOL 7G** | **TOL 6H (+0,1)** | **TOL 6H (+0,2)**





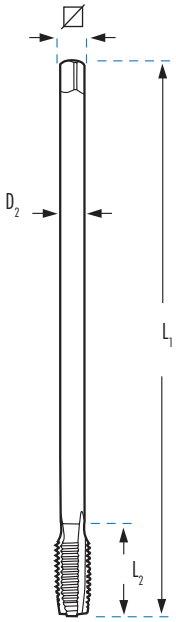
				M2R4H	M4R4H	M2R6G	M4R6G	M2R7G	M4R7G	M2R+0,1	M4R+0,1	M2R+0,2	M4R+0,2
			TOLLERANZA	TOL 4H	TOL 4H	TOL 6G	TOL 6G	TOL 7G	TOL 7G	TOL 6H (+0,1)	TOL 6H (+0,1)	TOL 6H (+0,2)	TOL 6H (+0,2)
			MATERIALE	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%
			FINITURA	BRILLANTE	BRILLANTE	BRILLANTE	BRILLANTE	BRILLANTE	BRILLANTE	BRILLANTE	BRILLANTE	BRILLANTE	BRILLANTE
			FORMA	FORMA B	35°	FORMA B	35°	FORMA B	35°	FORMA B	35°	FORMA B	35°
	Ø	L1 x L2 x D2 x mm		€	€	€	€	€	€	€	€	€	€
M 3x0,50	2,50	R	56 x 11 x 3,5 x 2,7	20,51	25,37	14,48	17,66	17,42	21,54	17,19	21,81	26,50	32,81
M 4x0,70	3,30	R	63 x 13 x 4,5 x 3,4	20,98	25,37	14,48	17,66	17,82	21,54	17,19	21,81	27,11	28,95
M 5x0,80	4,20	R	70 x 16 x 6,0 x 4,9	20,98	24,31	15,23	18,43	17,82	20,63	17,19	20,90	27,11	31,43
M 6x1,00	5,00	R	80 x 17 x 6,0 x 4,9	23,06	26,68	15,17	18,55	19,59	22,64	17,25	22,92	29,80	34,48
M 8x1,00	7,00	D	90 x 20 x 6,0 x 4,9			35,83	39,64						
M 8x1,25	6,75	R	90 x 20 x 8,0 x 6,2	25,82	30,45	19,29	22,87	21,91	25,84	21,15	26,17	29,47	39,36
M 10x1,00	9,00	D	90 x 16 x 7,0 x 5,5			42,30	49,23						
M 10x1,50	8,50	R	100 x 22 x 10,0 x 8,0	31,74	36,13	22,87	26,18	26,95	34,08	26,01	31,03	36,24	41,20
CODOLO SOTTILE				M2D4H	M4D4H	M2D6G	M4D6G	M2D7G	M4D7G	M2D+0,1	M4D+0,1	M2D+0,2	M4D+0,2
M 12x1,50	10,50	D	100 x 22 x 9,0 x 7,0			74,85	88,74						
M 12x1,75	10,20	D	110 x 24 x 9,0 x 7,0	40,95	48,62	26,72	28,97	32,83	38,98	32,10	49,12	46,68	55,45
M 14x2,00	12,00	D	110 x 26 x 11,0 x 9,0			38,93	41,70			69,54	82,91	86,29	100,02
M 16x2,00	14,00	D	110 x 27 x 12,0 x 9,0			43,48	44,25			81,80	100,19	89,60	106,68
M 18x2,50	15,50	D	125 x 30 x 14,0 x 11,0			60,49	64,88			119,16	134,91	143,78	151,40
M 20x2,50	17,50	D	140 x 32 x 16,0 x 12,0			74,52	85,48			128,77	143,57	155,35	163,13

4H.-Per filettature molto precise. Regolazione più esatta.
6G.- Per filettature con rivestimenti. Spessore tra 20 – 40 µ
7G.-Per filettature con rivestimenti. Spessore tra 20 – 50 µ
6H. (+0,1)- Per ottenere filettature con sovramisure o per compensare deformazioni da trattamenti termici.
6H. (+0,2)- Per ottenere filettature con sovramisure o per compensare deformazioni da trattamenti termici.

MASCHI A MACCHINA EXTRA LUNGHI HSSCo

FORMA B | **HSSCo 5%** | **BRILLANTE** | **TOL 6H** | **R CODOLO RINFORZATO** | **DIN 371** | **D CODOLO SOTTILE** | **DIN 376**

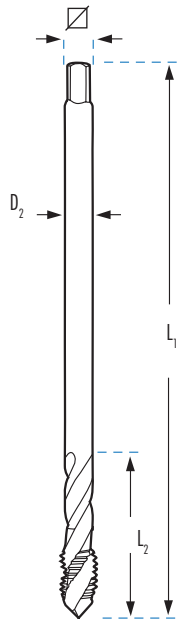




					M2L FORMA B €
M2LM03X0,50	M 3x0,50	2,50	R	100 x 10 x 3,5 x 2,7	18,62
M2LM04X0,70	M 4x0,70	3,30	R	120 x 12 x 4,5 x 3,4	19,04
M2LM05X0,80	M 5x0,80	4,20	R	140 x 14 x 6,0 x 4,9	22,40
M2LM06X1,00-120	M 6x1,00	5,00	R	120 x 16 x 6,0 x 4,9	21,01
M2LM06X1,00	M 6x1,00	5,00	R	160 x 16 x 6,0 x 4,9	22,43
M2LM07X1,00	M 7x1,00	6,00	R	160 x 17 x 7,0 x 5,5	27,20
M2LM08X1,25-150	M 8x1,25	6,80	R	150 x 18 x 8,0 x 6,2	25,41
M2LM08X1,25	M 8x1,25	6,80	R	180 x 18 x 8,0 x 6,2	27,33
	CODOLO SOTTILE				**M2L-D**
M2LM06X1,00D	M 6x1,00	5,00	D	160 x 16 x 4,5 x 3,4	24,89
M2LM08X1,25D	M 8x1,25	6,80	D	180 x 18 x 6,2 x 5,0	29,19
M2LM10X1,50-150	M 10x1,50	8,50	D	150 x 20 x 7,0 x 5,5	29,51
M2LM10X1,50	M 10x1,50	8,50	D	200 x 20 x 7,0 x 5,5	31,45
M2LM12X1,75-150	M 12x1,75	10,20	D	150 x 22 x 8,5 x 6,5	33,51
M2LM12X1,75	M 12x1,75	10,20	D	220 x 22 x 8,5 x 6,5	35,60
M2LM14X2,00	M 14x2,00	12,00	D	220 x 25 x 10,5 x 8,0	66,02
M2LM16X2,00	M 16x2,00	14,00	D	220 x 28 x 12,5 x 10,0	77,68
M2LM18X2,50	M 18x2,50	15,50	D	250 x 32 x 14,0 x 11,0	141,32
M2LM20X2,50	M 20x2,50	17,50	D	250 x 32 x 16,0 x 12,0	152,76
M2LM22X2,50	M 22x2,50	19,50	D	250 x 35 x 18,0 x 14,5	247,13
M2LM24X3,00	M 24x3,00	21,00	D	250 x 38 x 18,0 x 14,5	311,18

35° | **HSSCo 5%** | **BRILLANTE** | **TOL 6H** | **R CODOLO RINFORZATO** | **DIN 371** | **D CODOLO SOTTILE** | **DIN 376**



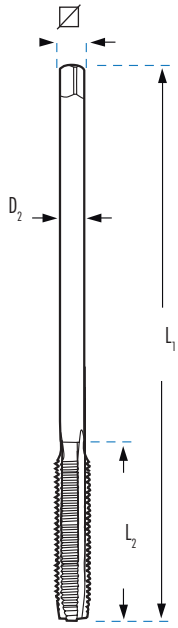


					M4L 35° €
M4LM03X0,50	M 3x0,50	2,50	R	100 x 10 x 3,5 x 2,7	22,07
M4LM04X0,70	M 4x0,70	3,30	R	120 x 12 x 4,5 x 3,4	23,04
M4LM05X0,80	M 5x0,80	4,20	R	140 x 14 x 6,0 x 4,9	25,29
M4LM06X1,00-120	M 6x1,00	5,00	R	120 x 16 x 6,0 x 4,9	25,01
M4LM06X1,00	M 6x1,00	5,00	R	160 x 16 x 6,0 x 4,9	26,74
M4LM07X1,00	M 7x1,00	6,00	R	160 x 17 x 7,0 x 5,5	31,50
M4LM08X1,25-150	M 8x1,25	6,80	R	150 x 18 x 8,0 x 6,2	29,01
M4LM08X1,25	M 8x1,25	6,80	R	180 x 18 x 8,0 x 6,2	31,27
	CODOLO SOTTILE				**M4L-D**
M4LM06X1,00D	M 6x1,00	5,00	D	160 x 16 x 4,5 x 3,4	28,82
M4LM08X1,25D	M 8x1,25	6,80	D	180 x 18 x 6,2 x 5,0	33,73
M4LM10X1,50-150	M 10x1,50	8,50	D	150 x 20 x 7,0 x 5,5	35,85
M4LM10X1,50	M 10x1,50	8,50	D	200 x 20 x 7,0 x 5,5	38,01
M4LM12X1,75-150	M 12x1,75	10,20	D	150 x 22 x 8,5 x 6,5	37,11
M4LM12X1,75	M 12x1,75	10,20	D	220 x 22 x 8,5 x 6,5	39,51
M4LM14X2,00	M 14x2,00	12,00	D	220 x 25 x 10,5 x 8,0	73,99
M4LM16X2,00	M 16x2,00	14,00	D	220 x 28 x 12,5 x 10,0	107,23
M4LM18X2,50	M 18x2,50	15,50	D	250 x 32 x 14,0 x 11,0	160,03
M4LM20X2,50	M 20x2,50	17,50	D	250 x 32 x 16,0 x 12,0	170,30
M4LM22X2,50	M 22x2,50	19,50	D	250 x 25 x 18,0 x 14,5	278,63
M4LM24X3,00	M 24x3,00	21,00	D	250 x 32 x 18,0 x 14,5	326,81

MASCHIO A MACCHINA PER DADI FILETTATURA METRICA DIN 357

HSSCo 5% | BRILLANTE | TOL 6H | DIN 357





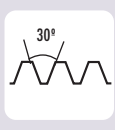
				MTU FORMA A €
M	3x0,50**	2,50	D 70 x 22 x 2,2	24,00
M	4x0,70	3,30	D 90 x 25 x 2,8 x 2,1	24,00
M	5x0,80	4,20	D 100 x 28 x 3,5 x 2,7	24,00
M	6x1,00	5,00	D 110 x 32 x 4,5 x 3,4	24,00
M	8x1,25	6,80	D 125 x 40 x 6,0 x 4,9	29,27
M	10x1,50	8,50	D 140 x 45 x 7,0 x 5,5	31,50
M	12x1,75	10,20	D 180 x 50 x 9,0 x 7,0	51,73
M	14x2,00	12,00	D 200 x 56 x 11,0 x 9,0	60,26
M	16x2,00	14,00	D 200 x 63 x 12,0 x 9,0	74,62
M	18x2,50	15,50	D 220 x 63 x 14,0 x 11,0	100,39
M	20x2,50	17,50	D 250 x 70 x 16,0 x 12,0	127,26*
M	22x2,50	19,50	D 280 x 80 x 18,0 x 14,5	156,14*
M	24x3,00	21,00	D 280 x 80 x 18,0 x 14,5	212,43*

** Codolo cilindrico

*Fino ad esaurimento scorte

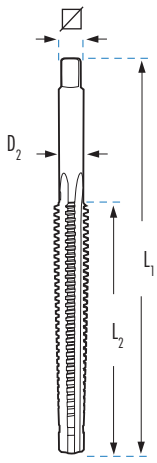
MASCHIO A MACCHINA PER FILETTATURA TRAPEZOIDALE HSS





HSS | BRILLANTE | DIN 103 | TOL 7H



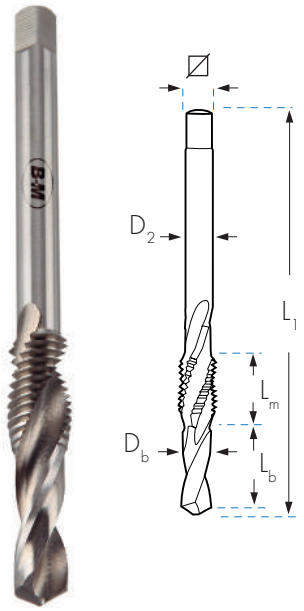


		MRTM €
Tr 14 x 3	11,25	160 x 105 x 10,5 x 8,0	399,63
Tr 16 x 4	12,25	205 x 110 x 11,5 x 9,0	434,12
Tr 18 x 4	14,25	215 x 120 x 13,0 x 10,0	444,94
Tr 20 x 4	16,25	230 x 130 x 15,0 x 12,0	466,17
Tr 22 x 5	17,25	270 x 165 x 16,0 x 12,0	605,21
Tr 24 x 5	19,25	280 x 165 x 18,0 x 14,5	696,01
Tr 26 x 5	21,25	290 x 170 x 20,0 x 16,0	720,14
Tr 28 x 5	23,25	300 x 180 x 22,0 x 18,0	804,59
Tr 30 x 6	24,25	345 x 200 x 23,0 x 18,0	951,69

PUNTA-MASCHIO HSSCo



DIN 13 60° p | HSSCo 5% | BRILLANTE | TOL 6H | R CODOLO RINFORZATO | DIN 371 | D CODOLO SOTTILE | DIN 376



		Lb mm	Lm mm	L1 mm	Db mm	D2 mm	⊠ mm	M8M €
M 3x0,50	R	9,0	12,5	62,0	2,5	3,5	2,7	32,50
M 4x0,70	R	10,0	16,0	66,0	3,30	4,5	3,4	32,50
M 5x0,80	R	12,5	18,0	75,5	4,20	6,0	4,9	35,07
M 6x1,00	R	14,0	20,0	81,0	5,00	6,0	4,9	38,75
M 8x1,00	R	20,0	14,0	91,0	7,00	6,0	4,9	48,74
M 8x1,25	R	20,0	14,0	91,0	6,75	8,0	6,2	50,25
CODOLO SOTTILE								
M 8x1,25	D	20,0	14,0	91,0	6,75	6,0	4,9	45,13
M 10x1,00	D	20,0	15,0	95,0	9,00	7,0	5,5	60,52
M 10x1,50	D	25,0	18,0	105,0	8,50	7,0	5,5	49,32
M 12x1,50	D	24,0	18,0	110,0	10,50	9,0	7,0	65,51
M 12x1,75	D	28,0	20,0	118,0	12,50	11,0	9,0	58,59
M 14x1,50	D	28,0	20,0	118,0	12,50	11,0	9,0	110,93
M 14x2,00	D	28,0	22,0	130,0	12,00	11,0	9,0	107,22
M 16x2,00	D	36,0	24,0	139,0	14,00	12,0	9,0	173,63
M 18x2,50	D	40,0	26,0	151,0	15,50	14,0	11,0	205,65
M 20x2,50	D	45,0	30,0	168,0	17,50	16,0	2,0	347,59

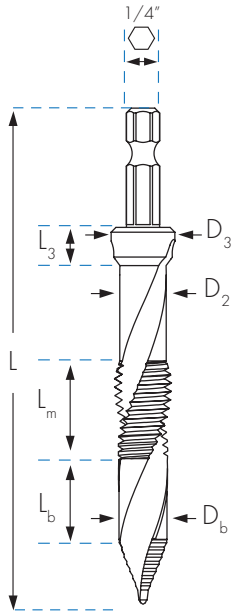
NOTA: Non utilizzare i Punta-Maschi in fori ciechi o passanti più profondi di Lb.

PUNTA MASCHIO SVASATRICE HSSCo STEP CUT

NEW

DIN 13 60° p | HSSCo 5% | BRILLANTE | TOL 6H | D CODOLO SOTTILE | 1/4" | STEP CUT

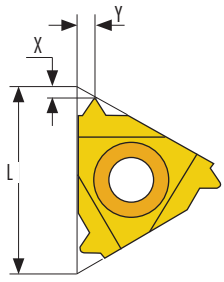




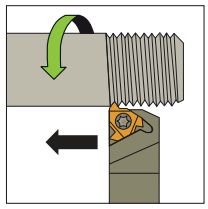
		Lb mm	Lm mm	L3 mm	L mm	Db mm	D2 mm	D3 mm	⬡	MTKM €
M 3x0,50	D	7,0	6,0	6,0	57,0	2,5	2,2	7,3	1/4"	23,41
M 4x0,70	D	7,0	8,5	6,0	62,0	3,3	3,0	7,3	1/4"	23,41
M 5x0,80	D	9,0	10,0	6,0	69,0	4,2	3,7	7,3	1/4"	23,41
M 6x1,00	D	10,0	12,0	6,0	73,0	5,0	4,5	7,3	1/4"	23,41
M 8x1,25	D	12,0	16,0	6,0	87,0	6,8	6,3	9,4	1/4"	32,39
M 10x1,50	D	14,0	20,0	6,0	96,0	8,5	8,0	11,4	1/4"	39,05
M 12x1,75	D	16,0	24,0	8,0	112,0	10,3	9,8	13,4	1/4"	56,36

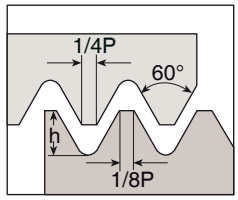
NOTA: Non utilizzare i Punta-Maschio Svasatrice in fori ciechi o passanti più profondi di Lb.

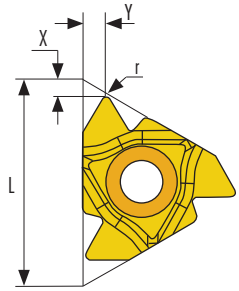
PLACCHETTE PER FILETTATURA ESTERNA



Filettatura esterna destrosa RH

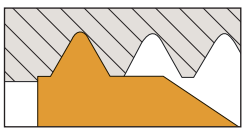


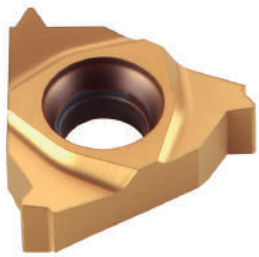




Norma: R262 (DIN 13)
Tolleranza classe: 6g/6H

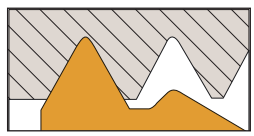
Profilo totale

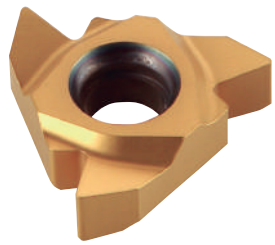




Filettare il profilo completo, terminando il diametro esterno della filettatura.
Utilizzeremo una placchetta differente per ogni passo.

Profilo parziale





Non terminare il diametro esterno della filettatura.
La stessa placchetta può essere utilizzata per una gamma di differenti passi aventi lo stesso angolo di filettatura.

PROFILO TOTALE 60º

FILETTATURA ESTERNA	L	PASSO	h	X	Y	€
PRE-16-075	16	0,75	0,46	0,6	0,6	**26,94***
PRE-16-100		1,00	0,61	0,7	0,7	**26,94***
PRE-16-125		1,25	0,77	0,8	0,9	**26,94***
PRE-16-150		1,50	0,92	0,8	1	**26,94***
PRE-16-175		1,75	1,07	0,9	1,2	**26,94***
PRE-16-200		2,00	1,23	1	1,3	**26,94***
PRE-16-250		2,50	1,53	1,1	1,5	**26,94***
PRE-16-300		3,00	1,84	1,2	1,6	**26,94***

*Fino ad esaurimento scorte.

PROFILO PARZIALE 60º

FILETTATURA ESTERNA	L	INTERVALLI METRICI	INTERVALLI POLLICI	r	X	Y	€
PPRE-16-150	16	0,50-1,50	48 - 16	0,05	0,80	0,90	**26,94***

*Fino ad esaurimento scorte.

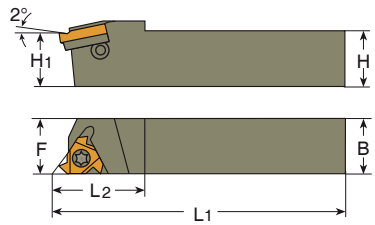
PORTAUTENSILI DA FILETTATURA ESTERNA

FILETTATURA ESTERNA	H1=H=B=F	L1	L2	€
PEXT-25-16	25	153	30	**197,03***

*Fino ad esaurimento scorte.



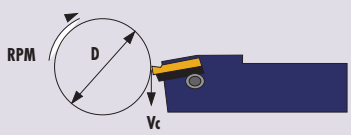




	Vc
ACCIAIO DOLCE 70 kg/mm²	25 m / min
ACCIAIO TRATTATO 120 kg/mm²	13 m / min
INOX	11 m / min

	Vc
ALLUMINIO	50 m / min
TITANIO	18 m / min
GHISA	25 m / min
OTTONE	50 m / min

FORMULA MATEMATICA PER RICAVARE LA VELOCITÀ DI GIRO DEL PEZZO (RPM)

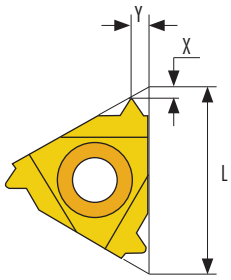


RPM: Rotazioni x minuto
Vc: Velocità di taglio (m/mm)
D: Diametro pezzo (mm)

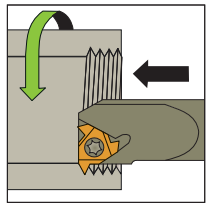
$$RPM = \frac{1000 \times Vc}{\pi \times D}$$

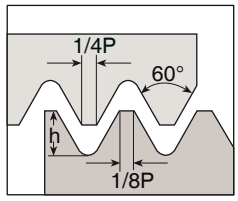
le RPM si ricavano in funzione di Vc e D

PLACCHETTE PER FILETTATURA INTERNA

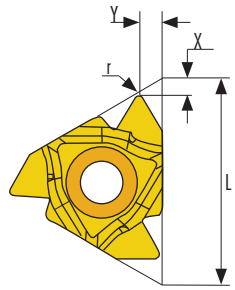


Filettatura interna destrosa RH

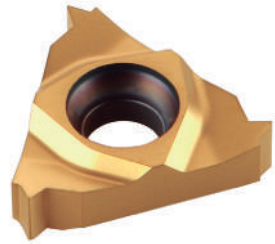




Norma: R262 (DIN 13)
Tolleranza classe: 6g/6H







PROFILO TOTALE 60º

FILETTATURA INTERNA	L	PASSO	h	X	Y	€
PRI-16-075	16	0,75	0,43	0,6	0,6	**26,94***
PRI-16-100		1,00	0,58	0,6	0,7	**26,94***
PRI-16-125		1,25	0,72	0,8	0,9	**26,94***
PRI-16-150		1,50	0,87	0,8	1,0	**26,94***
PRI-16-175		1,75	1,01	0,9	1,2	**26,94***
PRI-16-200		2,00	1,15	1,0	1,3	**26,94***
PRI-16-250		2,50	1,44	1,1	1,5	**26,94***
PRI-16-300		3,00	1,73	1,1	1,5	**26,94***

*Fino ad esaurimento scorte.

PROFILO PARZIALE 60º

FILETTATURA INTERNA	L	INTERVALLI METRICI	INTERVALLO POLLICI	r	X	Y	€
PPRI-16-150	16	0,50-1,50	48 - 16	0,05	0,80	0,90	**26,94***
PPRI-16-300		1,75-3,00	14 - 8	0,16	1,20	1,70	**26,94***

*Fino ad esaurimento scorte.

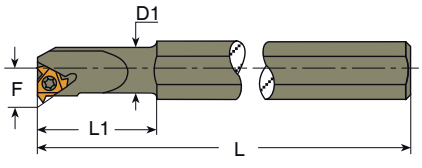
PORTAUTENSILI DA FILETTATURA INTERNA

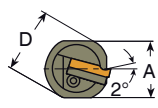
FILETTATURA INTERNA	L	L1	D	D1	A	Ø MIN. FORO	€
PINT-25-16	200	45	25	24,6	22,6	29	**237,45***

*Fino ad esaurimento scorte.









SET DI MASCHI A MACCHINA HSSCo IN SCATOLE METALLICHE

USO GENERALE

HSSCo 5%


Ref. JM6


Ref. JM2


Ref. JM8


Ref. JM4

CONTENUTO

	FORMA C	FORMA B	15°	35°	HSS	HSSCo 5% €
JM5	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	-	-	113,22
JM1	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	-	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	139,26
JM6	-	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	-	119,97
JM2	-	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	146,00
JM7	-	-	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	153,92
JM3	-	-	M3 - M4 - M5 - M6 M8 - M10 - M12	-	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	179,96
JM8	-	-	-	M3 - M4 - M5 - M6 M8 - M10 - M12	-	141,82
JM4	-	-	-	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	167,86

ASSORTIMENTI DI MASCHI A MACCHINA IN SCATOLE METALLICHE

Plus



Ref. JMPT2

CONTENUTO

	FORMA B BRILLANTE	35° BRILLANTE	HSSCo 5%	HSS PM €		TiN €
JMP6	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	135,78	JMPT6	196,64
JMP2	M3 - M4 - M5 - M6 M8 - M10 - M12	-	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	183,80	JMPT2	244,66
JMP8	-	M3 - M4 - M5 - M6 M8 - M10 - M12	-	157,86	JMPT8	215,51
JMP4	-	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	205,87	JMPT4	263,53

INOX

CONTENUTO

	FORMA B OX	35° OX	HSSCo 5%	HSS PM €		TiN €
JMX6	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	152,95	JMXT6	186,12
JMX2	M3 - M4 - M5 - M6 M8 - M10 - M12	-	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	200,96	JMXT2	234,14
JMX8	-	M3 - M4 - M5 - M6 M8 - M10 - M12	-	187,01	JMXT8	215,67
JMX4	-	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	235,03	JMXT4	263,68

1200 N/mm²

CONTENUTO

	FORMA B OX	35° OX	HSSCo 5%	HSS V3 €		TINALOX €
JMMD6	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	170,08	JMMDT6	243,27
JMMD2	M3 - M4 - M5 - M6 M8 - M10 - M12	-	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	218,10	JMMDT2	291,29
JMMD8	-	M3 - M4 - M5 - M6 M8 - M10 - M12	-	186,61	JMMDT8	278,66
JMMD4	-	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	234,63	JMMDT4	326,69

ASSORTIMENTI DI MASCHI A MACCHINA IN SCATOLE METALLICHE

1400 N/mm²



Ref. JMC2

CONTENUTO

	FORMA B TiCN	15° TiCN	HSSCo 5%	HSS-PM €
JMC6	M3 - M4 - M5 - M6 - M8 - M10 - M12	-	-	278,89
JMC2	M3 - M4 - M5 - M6 - M8 - M10 - M12	-	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	326,91
JMC8	-	M3 - M4 - M5 - M6 - M8 - M10 - M12	-	314,79
JMC4	-	M3 - M4 - M5 - M6 - M8 - M10 - M12	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	362,82

QUALSIASI TERRENO

CONTENUTO

	FORMA B TiN	35° TiN	HSSCo 5%	HSSCo 5% €
JMD6	M3 - M4 - M5 - M6 - M8 - M10 - M12	-	-	230,93
JMD2	M3 - M4 - M5 - M6 - M8 - M10 - M12	-	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	278,93
JMD8	-	M3 - M4 - M5 - M6 - M8 - M10 - M12	-	263,58
JMD4	-	M3 - M4 - M5 - M6 - M8 - M10 - M12	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	311,61

Al

CONTENUTO

	DENTI ALTERNATI BRILLANTE	2 CANALI BRILLANTE	HSS	HSSCo 5% €
JMAL6	M3 - M4 - M5 - M6 - M8 - M10 - M12	-	-	162,92
JMAL2	M3 - M4 - M5 - M6 - M8 - M10 - M12	-	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	189,68
JMAL8	-	M3 - M4 - M5 - M6 - M8 - M10 - M12	-	191,59
JMAL4	-	M3 - M4 - M5 - M6 - M8 - M10 - M12	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	217,64

MASCHI A MACCHINA IN ASTUCCI

USO GENERALE

CONTENUTO

	FORMA B	BRILLANTE	35°	BRILLANTE	HSSCo 5% €
PT01	M4 - M5 - M6 - M8 - M10		M4 - M5 - M6 - M8 - M10		154,07



Ref. PT01

Plus

CONTENUTO

	FORMA B	BRILLANTE	35°	BRILLANTE	HSS PM €		TiN €
PT02	M4 - M5 - M6 - M8 - M10		M4 - M5 - M6 - M8 - M10		169,53	PT03	248,92



Ref. PT03

INOX

CONTENUTO

	FORMA B	OX	35°	OX	HSS PM €		TiN €
PT05	M4 - M5 - M6 - M8 - M10		M4 - M5 - M6 - M8 - M10		197,15	PT13	237,02



Ref. PT05

1200 N/mm²

CONTENUTO

	FORMA B	OX	35°	OX	HSS V3 €		TINALOX €
PT04	M4 - M5 - M6 - M8 - M10		M4 - M5 - M6 - M8 - M10		209,19	PT14	313,56



Ref. PT04

1400 N/mm²

CONTENUTO

	FORMA B	TiCN	15°	TiCN	HSS PM €
PT11	M4 - M5 - M6 - M8 - M10		M4 - M5 - M6 - M8 - M10		361,60



Ref. PT11

MASCHI A MACCHINA IN ASTUCCI

Al



Ref. **PT06**

CONTENUTO

	DENTI ALTERN.	2 CANALI	HSSCo 5% €
PT06	M4 - M5 - M6 M8 - M10	M4 - M5 - M6 M8 - M10	209,87

GHISA



Ref. **PT07**

CONTENUTO

	FORMA C	HSSCo 5% €
PT07	M4 - M5 - M6 - M8 - M10 M4 - M5 - M6 - M8 - M10	170,90

OTTONE



Ref. **PT10**

CONTENUTO

	FORMA C	HSSCo 5% €
PT10	M4 - M5 - M6 - M8 - M10 M4 - M5 - M6 - M8 - M10	207,73

LAMINAZIONE



Ref. **PT08**

CONTENUTO

		HSSCo 5% €
PT08	M4 - M5 - M6 - M8 - M10 M4 - M5 - M6 - M8 - M10	347,00





Ref. **PT09**

CONTENUTO

		HSSCo 5% €
PT09	M4 - M5 - M6 - M8 - M10 M4 - M5 - M6 - M8 - M10	384,99

TOL 6G



Ref. **PT12**

CONTENUTO

	FORMA B	35°	HSSCo 5% €
PT12	M4 - M5 - M6 M8 - M10	M4 - M5 - M6 M8 - M10	186,32

ESPOSITORI IN METACRILATO PER MASCHI A MACCHINA

ESPOSITORE IN METACRILATO — MM-03

Composizione: Maschi a macchina, Serie Normale

HSSCo 5%

FORMA B — Fori passanti, Ref. M2

M4	M5	M6	M8	M10	M12	M14
5	10	10	10	10	5	4

35° — Fori ciechi, Ref. M4

M4	M5	M6	M8	M10	M12	M14
5	10	10	10	10	5	4

Dimensioni: larghezza 240 x profondità 240 x altezza 245 mm

2.016,85 €



Ref. MM-03



Ref. MM-04

ESPOSITORE IN METACRILATO — MM-04

Composizione: Maschi a macchina, Serie Plus
Fabbricati in acciaio sinterizzato PM

HSS PM — Plus

FORMA B — Fori passanti, Ref. M2

M4	M5	M6	M8	M10	M12	M14
5	10	10	10	10	5	4

35° — Fori ciechi, Ref. M4

M4	M5	M6	M8	M10	M12	M14
5	10	10	10	10	5	4

Dimensioni: larghezza 240 x profondità 240 x altezza 245 mm

2.322,55 €

ESPOSITORE IN METACRILATO — MM-05

Composizione: Maschi a macchina per lavorazioni speciali

FORMA B — Fori passanti Ref. M2

	M4	M5	M6	M8	M10	M12	M14
1200 N/mm²	1	2	2	2	2	1	1
INOX	1	2	2	2	2	1	1
Al	1	2	2	2	2	1	1
TiN	1	2	2	2	2	1	1
1400 N/mm²	1	2	2	2	2	1	

35° — Fori ciechi, Ref. M4

	M4	M5	M6	M8	M10	M12	M14
1200 N/mm²	1	2	2	2	2	1	1
INOX	1	2	2	2	2	1	1
Al	1	2	2	2	2	1	1
TiN	1	2	2	2	2	1	1
1400 N/mm²	1	2	2	2	2	1	

Dimensioni: larghezza 240 x profondità 240 x altezza 245 mm

3.097,38 €

BLUE-MASTER® by celesa



CALIBRI E TAMPONI

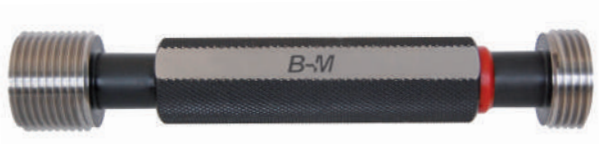
CALIBRI FILETTATI M/MF - TAMPONI

M
MF

Ref. CT — PASSA / NON PASSA
Ref. CTP — PASSA
Ref. CTNP — NON PASSA

DIN 13 | DIN/ISO 1502 | TOL 6H | P 60° | X210 Cr12

Ref. CT



Cert. * Il certificato del calibro è incluso nel prezzo.

	CT		CTP		CTNP	
	PASSA / NON PASSA	€	PASSA	€	NON PASSA	€
M 1,1x0,25	CTM01,1x0,25	**298,17***	CTPM01,1x0,25	-	CTNPM01,1x0,25	-
M 1,2x0,25	CTM01,2x0,25	**298,17***	CTPM01,2x0,25	-	CTNPM01,2x0,25	-
M 1,4x0,30	CTM01,4x0,30	**298,17***	CTPM01,4x0,30	-	CTNPM01,4x0,30	-
M 1,6x0,35	CTM01,6x0,35	**158,23**	CTPM01,6x0,35	-	CTNPM01,6x0,35	-
M 1,8x0,35	CTM01,8x0,35	**137,94**	CTPM01,8x0,35	-	CTNPM01,8x0,35	-
M 2x0,40	CTM02x0,40	**149,09**	CTPM02x0,40	-	CTNPM02x0,40	-
M 2,2x0,45	CTM02,2x0,45	**152,65**	CTPM02,2x0,45	-	CTNPM02,2x0,45	-
M 2,3x0,40	CTM02,3x0,40	**155,19**	CTPM02,3x0,40	-	CTNPM02,3x0,40	-
M 2,5x0,45	CTM02,5x0,45	**148,09**	CTPM02,5x0,45	-	CTNPM02,5x0,45	-
M 2,6x0,45	CTM02,6x0,45	**150,79**	CTPM02,6x0,45	-	CTNPM02,6x0,45	-
M 3x0,50	CTM03x0,50	**120,70**	CTPM03x0,50	-	CTNPM03x0,50	-
M 3,5x0,60	CTM03,5x0,60	**117,15**	CTPM03,5x0,60	-	CTNPM03,5x0,60	-
M 4x0,50	CTM04x0,50	**135,73**	CTPM04x0,50	-	CTNPM04x0,50	-
M 4x0,70	CTM04x0,70	**113,61**	CTPM04x0,70	-	CTNPM04x0,70	-
M 4,5x0,75	CTM04,5x0,75	**158,91**	CTPM04,5x0,75	-	CTNPM04,5x0,75	-
M 5x0,50	CTM05x0,50	**141,77**	CTPM05x0,50	-	CTNPM05x0,50	-
M 5x0,75	CTM05x0,75	**156,20**	CTPM05x0,75	-	CTNPM05x0,75	-
M 5x0,80	CTM05x0,80	**110,05**	CTPM05x0,80	-	CTNPM05x0,80	-
M 6x0,50	CTM06x0,50	**141,77**	CTPM06x0,50	-	CTNPM06x0,50	-
M 6x0,75	CTM06x0,75	**149,09**	CTPM06x0,75	-	CTNPM06x0,75	-
M 6x1,00	CTM06x1,00	**106,50**	CTPM06x1,00	-	CTNPM06x1,00	-
M 7x0,75	CTM07x0,75	**152,65**	CTPM07x0,75	-	CTNPM07x0,75	-
M 7x1,00	CTM07x1,00	**122,47**	CTPM07x1,00	-	CTNPM07x1,00	-
M 8x0,50	CTM08x0,50	**141,77**	CTPM08x0,50	-	CTNPM08x0,50	-
M 8x0,75	CTM08x0,75	**156,20**	CTPM08x0,75	-	CTNPM08x0,75	-
M 8x1,00	CTM08x1,00	**131,08**	CTPM08x1,00	-	CTNPM08x1,00	-
M 8x1,25	CTM08x1,25	**110,05**	CTPM08x1,25	-	CTNPM08x1,25	-
M 9x1,00	CTM09x1,00	**142,00**	CTPM09x1,00	-	CTNPM09x1,00	-
M 9x1,25	CTM09x1,25	**113,61**	CTPM09x1,25	-	CTNPM09x1,25	-
M 10x0,75	CTM10x0,75	**163,31**	CTPM10x0,75	-	CTNPM10x0,75	-
M 10x1,00	CTM10x1,00	**149,09**	CTPM10x1,00	-	CTNPM10x1,00	-
M 10x1,25	CTM10x1,25	**152,65**	CTPM10x1,25	-	CTNPM10x1,25	-
M 10x1,50	CTM10x1,50	**117,15**	CTPM10x1,50	-	CTNPM10x1,50	-
M 11x1,00	CTM11x1,00	**156,20**	CTPM11x1,00	-	CTNPM11x1,00	-
M 11x1,50	CTM11x1,50	**120,70**	CTPM11x1,50	-	CTNPM11x1,50	-
M 12x0,75	CTM12x0,75	**170,40**	CTPM12x0,75	-	CTNPM12x0,75	-
M 12x1,00	CTM12x1,00	**158,70**	CTPM12x1,00	-	CTNPM12x1,00	-

*Fino ad esaurimento scorte.

CALIBRI FILETTATI M/MF - TAMPONI

M
MF

Ref. CT — PASSA / NON PASSA
Ref. CTP — PASSA
Ref. CTNP — NON PASSA

DIN 13 | DIN/ISO 1502 | TOL 6H | P 60° | X210 Cr12

Cert. * Il certificato del calibro è incluso nel prezzo.

		CT		CTP		CTNP
	PASSA / NON PASSA	€	PASSA	€	NON PASSA	€
M 12x1,25	CTM12x1,25	166,86	CTPM12x1,25	-	CTNPM12x1,25	-
M 12x1,50	CTM12x1,50	142,00	CTPM12x1,50	-	CTNPM12x1,50	-
M 12x1,75	CTM12x1,75	124,25	CTPM12x1,75	-	CTNPM12x1,75	-
M 13x1,00	CTM13x1,00	166,86	CTPM13x1,00	-	CTNPM13x1,00	-
M 13x1,50	CTM13x1,50	152,65	CTPM13x1,50	-	CTNPM13x1,50	-
M 14x1,00	CTM14x1,00	170,40	CTPM14x1,00	-	CTNPM14x1,00	-
M 14x1,25	CTM14x1,25	166,86	CTPM14x1,25	-	CTNPM14x1,25	-
M 14x1,50	CTM14x1,50	156,20	CTPM14x1,50	-	CTNPM14x1,50	-
M 14x2,00	CTM14x2,00	131,36	CTPM14x2,00	-	CTNPM14x2,00	-
M 15x1,00	CTM15x1,00	173,94	CTPM15x1,00	-	CTNPM15x1,00	-
M 15x1,50	CTM15x1,50	163,31	CTPM15x1,50	-	CTNPM15x1,50	-
M 16x1,00	CTM16x1,00	184,60	CTPM16x1,00	-	CTNPM16x1,00	-
M 16x1,50	CTM16x1,50	166,86	CTPM16x1,50	-	CTNPM16x1,50	-
M 16x2,00	CTM16x2,00	145,55	CTPM16x2,00	-	CTNPM16x2,00	-
M 18x1,00	CTM18x1,00	169,73	CTPM18x1,00	-	CTNPM18x1,00	-
M 18x1,50	CTM18x1,50	173,94	CTPM18x1,50	-	CTNPM18x1,50	-
M 18x2,00	CTM18x2,00	173,94	CTPM18x2,00	-	CTNPM18x2,00	-
M 18x2,50	CTM18x2,50	156,20	CTPM18x2,50	-	CTNPM18x2,50	-
M 20x1,00	CTM20x1,00	202,36	CTPM20x1,00	-	CTNPM20x1,00	-
M 20x1,50	CTM20x1,50	184,60	CTPM20x1,50	-	CTNPM20x1,50	-
M 20x2,00	CTM20x2,00	184,60	CTPM20x2,00	-	CTNPM20x2,00	-
M 20x2,50	CTM20x2,50	166,86	CTPM20x2,50	-	CTNPM20x2,50	-
M 22x1,00	CTM22x1,00	216,38	CTPM22x1,00	-	CTNPM22x1,00	-
M 22x1,50	CTM22x1,50	199,48	CTPM22x1,50	-	CTNPM22x1,50	-
M 22x2,00	CTM22x2,00	209,46	CTPM22x2,00	-	CTNPM22x2,00	-
M 22x2,50	CTM22x2,50	177,50	CTPM22x2,50	-	CTNPM22x2,50	-
M 24x1,00	CTM24x1,00	230,36	CTPM24x1,00	-	CTNPM24x1,00	-
M 24x1,50	CTM24x1,50	209,62	CTPM24x1,50	-	CTNPM24x1,50	-
M 24x2,00	CTM24x2,00	209,62	CTPM24x2,00	-	CTNPM24x2,00	-
M 24x3,00	CTM24x3,00	198,81	CTPM24x3,00	-	CTNPM24x3,00	-
M 25x1,00	CTM25x1,00	236,67	CTPM25x1,00	-	CTNPM25x1,00	-
M 25x1,50	CTM25x1,50	216,38	CTPM25x1,50	-	CTNPM25x1,50	-
M 25x2,00	CTM25x2,00	216,38	CTPM25x2,00	-	CTNPM25x2,00	-
M 26x1,00	CTM26x1,00	259,15	CTPM26x1,00	-	CTNPM26x1,00	-
M 26x1,50	CTM26x1,50	234,31	CTPM26x1,50	-	CTNPM26x1,50	-
M 26x2,00	CTM26x2,00	234,31	CTPM26x2,00	-	CTNPM26x2,00	-
M 27x1,00	CTM27x1,00	255,87	CTPM27x1,00	-	CTNPM27x1,00	-
M 27x1,50	CTM27x1,50	235,13	CTPM27x1,50	-	CTNPM27x1,50	-
M 27x2,00	CTM27x2,00	235,13	CTPM27x2,00	-	CTNPM27x2,00	-
M 27x3,00	CTM27x3,00	225,10	CTPM27x3,00	-	CTNPM27x3,00	-
M 28x1,50	CTM28x1,50	248,51	CTPM28x1,50	-	CTNPM28x1,50	-
M 28x2,00	CTM28x2,00	248,51	CTPM28x2,00	-	CTNPM28x2,00	-
M 30x1,00	CTM30x1,00	274,03	CTPM30x1,00	-	CTNPM30x1,00	-
M 30x1,50	CTM30x1,50	259,33	CTPM30x1,50	-	CTNPM30x1,50	-
M 30x2,00	CTM30x2,00	259,33	CTPM30x2,00	-	CTNPM30x2,00	-
M 30x3,00	CTM30x3,00	293,91	CTPM30x3,00	-	CTNPM30x3,00	-
M 30x3,50	CTM30x3,50	246,89	CTPM30x3,50	-	CTNPM30x3,50	-
M 32x1,00	CTM32x1,00	274,32	CTPM32x1,00	-	CTNPM32x1,00	-
M 32x1,50	CTM32x1,50	248,51	CTPM32x1,50	-	CTNPM32x1,50	-

CALIBRI FILETTATI M/MF - TAMPONI

M
MF

Ref. CT — PASSA / NON PASSA
Ref. CTP — PASSA
Ref. CTNP — NON PASSA

DIN 13 | DIN/ISO 1502 | TOL 6H | P 60° | X210 Cr12

Cert. * Il certificato del calibro è incluso nel prezzo.

		CT		CTP		CTNP
	PASSA / NON PASSA	€	PASSA	€	NON PASSA	€
M 32x2,00	CTM32x2,00	248,51	CTPM32x2,00	-	CTNPM32x2,00	-
M 33x1,00	CTM33x1,00	288,03	CTPM33x1,00	-	CTNPM33x1,00	-
M 33x1,50	CTM33x1,50	273,15	CTPM33x1,50	-	CTNPM33x1,50	-
M 33x2,00	CTM33x2,00	273,15	CTPM33x2,00	-	CTNPM33x2,00	-
M 33x3,00	CTM33x3,00	288,03	CTPM33x3,00	-	CTNPM33x3,00	-
M 33x3,50	CTM33x3,50	272,30	CTPM33x3,50	-	CTNPM33x3,50	-
M 34x1,50	CTM34x1,50	264,64	CTPM34x1,50	-	CTNPM34x1,50	-
M 34x2,00	CTM34x2,00	264,64	CTPM34x2,00	-	CTNPM34x2,00	-
M 35x1,00	CTM35x1,00	293,68	CTPM35x1,00	-	CTNPM35x1,00	-
M 35x1,50	CTM35x1,50	267,86	CTPM35x1,50	-	CTNPM35x1,50	-
M 35x2,00	CTM35x2,00	267,86	CTPM35x2,00	-	CTNPM35x2,00	-
M 36x1,00	CTM36x1,00	309,82	CTPM36x1,00	-	CTNPM36x1,00	-
M 36x1,50	CTM36x1,50	293,91	CTPM36x1,50	-	CTNPM36x1,50	-
M 36x2,00	CTM36x2,00	293,91	CTPM36x2,00	-	CTNPM36x2,00	-
M 36x4,00	CTM36x4,00	294,09	CTPM36x4,00	-	CTNPM36x4,00	-
M 38x1,00	CTM38x1,00	322,73	CTPM38x1,00	-	CTNPM38x1,00	-
M 38x1,50	CTM38x1,50	293,68	CTPM38x1,50	-	CTNPM38x1,50	-
M 38x2,00	CTM38x2,00	293,68	CTPM38x2,00	-	CTNPM38x2,00	-
M 39x1,00	CTM39x1,00	336,28	CTPM39x1,00	-	CTNPM39x1,00	-
M 39x1,50	CTM39x1,50	318,12	CTPM39x1,50	-	CTNPM39x1,50	-
M 39x2,00	CTM39x2,00	318,12	CTPM39x2,00	-	CTNPM39x2,00	-
M 39x3,00	CTM39x3,00	336,28	CTPM39x3,00	-	CTNPM39x3,00	-
M 39x4,00	CTM39x4,00	323,14	CTPM39x4,00	-	CTNPM39x4,00	-
M 40x1,00	CTM40x1,00	317,66	CTPM40x1,00	-	CTNPM40x1,00	-
M 40x1,50	CTM40x1,50	301,21	CTPM40x1,50	-	CTNPM40x1,50	-
M 40x2,00	CTM40x2,00	301,21	CTPM40x2,00	-	CTNPM40x2,00	-
M 40x3,00	CTM40x3,00	317,66	CTPM40x3,00	-	CTNPM40x3,00	-
M 42x1,00	CTM42x1,00	373,96	CTPM42x1,00	-	CTNPM42x1,00	-
M 42x1,50	CTM42x1,50	366,70	CTPM42x1,50	-	CTNPM42x1,50	-
M 42x2,00	CTM42x2,00	366,70	CTPM42x2,00	-	CTNPM42x2,00	-
M 42x3,00	CTM42x3,00	368,78	CTPM42x3,00	-	CTNPM42x3,00	-
M 42x4,50	CTM42x4,50	381,23	CTPM42x4,50	-	CTNPM42x4,50	-
M 45x1,00	CTM45x1,00	346,55	CTPM45x1,00	-	CTNPM45x1,00	-
M 45x1,50	CTM45x1,50	338,86	CTPM45x1,50	-	CTNPM45x1,50	-
M 45x2,00	CTM45x2,00	339,33	CTPM45x2,00	-	CTNPM45x2,00	-
M 45x3,00	CTM45x3,00	341,16	CTPM45x3,00	-	CTNPM45x3,00	-
M 45x4,00	CTM45x4,00	432,45	CTPM45x4,00	-	CTNPM45x4,00	-
M 45x4,50	CTM45x4,50	-	CTPM45x4,50	231,09	CTNPM45x4,50	231,09
M 48x1,00	CTM48x1,00	453,65	CTPM48x1,00	-	CTNPM48x1,00	-
M 48x1,50	CTM48x1,50	358,24	CTPM48x1,50	-	CTNPM48x1,50	-
M 48x2,00	CTM48x2,00	364,67	CTPM48x2,00	-	CTNPM48x2,00	-
M 48x3,00	CTM48x3,00	403,41	CTPM48x3,00	-	CTNPM48x3,00	-
M 48x4,00	CTM48x4,00	458,28	CTPM48x4,00	-	CTNPM48x4,00	-
M 48x5,00	CTM48x5,00	-	CTPM48x5,00	251,00	CTNPM48x5,00	251,00
M 50x1,00	CTM50x1,00	470,25	CTPM50x1,00	-	CTNPM50x1,00	-
M 50x1,50	CTM50x1,50	374,37	CTPM50x1,50	-	CTNPM50x1,50	-
M 50x2,00	CTM50x2,00	380,81	CTPM50x2,00	-	CTNPM50x2,00	-
M 50x3,00	CTM50x3,00	422,77	CTPM50x3,00	-	CTNPM50x3,00	-
M 52x1,00	CTM52x1,00	495,15	CTPM52x1,00	-	CTNPM52x1,00	-

CALIBRI FILETTATI M/MF - TAMPONI

M
MF

Ref. CT — PASSA / NON PASSA
Ref. CTP — PASSA
Ref. CTNP — NON PASSA

DIN 13 | DIN/ISO 1502 | TOL 6H | P 60° | X210 Cr12

Cert. * Il certificato del calibro è incluso nel prezzo.

		CT		CTP		CTNP
	PASSA / NON PASSA	€	PASSA	€	NON PASSA	€
M 52x1,50	CTM52x1,50	387,28	CTPM52x1,50	-	CTNPM52x1,50	-
M 52x2,00	CTM52x2,00	400,17	CTPM52x2,00	-	CTNPM52x2,00	-
M 52x3,00	CTM52x3,00	445,36	CTPM52x3,00	-	CTNPM52x3,00	-
M 52x4,00	CTM52x4,00	431,54	CTPM52x4,00	-	CTNPM52x4,00	-
M 52x5,00	CTM52x5,00	-	CTPM52x5,00	266,95	CTNPM52x5,00	266,95
M 55x1,00	CTM55x1,00	525,58	CTPM55x1,00	-	CTNPM55x1,00	-
M 55x1,50	CTM55x1,50	400,17	CTPM55x1,50	-	CTNPM55x1,50	-
M 55x2,00	CTM55x2,00	422,77	CTPM55x2,00	-	CTNPM55x2,00	-
M 55x3,00	CTM55x3,00	426,31	CTPM55x3,00	-	CTNPM55x3,00	-
M 55x4,00	CTM55x4,00	478,86	CTPM55x4,00	-	CTNPM55x4,00	-
M 56x1,00	CTM56x1,00	-	CTPM56x1,00	343,06	CTNPM56x1,00	343,06
M 56x1,50	CTM56x1,50	-	CTPM56x1,50	309,58	CTNPM56x1,50	309,58
M 56x2,00	CTM56x2,00	-	CTPM56x2,00	309,58	CTNPM56x2,00	309,58
M 56x3,00	CTM56x3,00	-	CTPM56x3,00	343,06	CTNPM56x3,00	343,06
M 56x4,00	CTM56x4,00	-	CTPM56x4,00	343,06	CTNPM56x4,00	343,06
M 56x5,50	CTM56x5,50	-	CTPM56x5,50	309,58	CTNPM56x5,50	309,58
M 58x1,00	CTM58x1,00	-	CTPM58x1,00	355,60	CTNPM58x1,00	355,60
M 58x1,50	CTM58x1,50	-	CTPM58x1,50	313,77	CTNPM58x1,50	313,77
M 58x2,00	CTM58x2,00	-	CTPM58x2,00	313,77	CTNPM58x2,00	313,77
M 58x3,00	CTM58x3,00	-	CTPM58x3,00	355,60	CTNPM58x3,00	355,60
M 60x1,00	CTM60x1,00	-	CTPM60x1,00	368,14	CTNPM60x1,00	368,14
M 60x1,50	CTM60x1,50	-	CTPM60x1,50	330,49	CTNPM60x1,50	330,49
M 60x2,00	CTM60x2,00	-	CTPM60x2,00	330,49	CTNPM60x2,00	330,49
M 60x3,00	CTM60x3,00	-	CTPM60x3,00	368,14	CTNPM60x3,00	368,14
M 60x4,00	CTM60x4,00	-	CTPM60x4,00	368,14	CTNPM60x4,00	368,14
M 60x5,50	CTM60x5,50	-	CTPM60x5,50	330,49	CTNPM60x5,50	330,49
M 62x1,00	CTM62x1,00	-	CTPM62x1,00	380,71	CTNPM62x1,00	380,71
M 62x1,50	CTM62x1,50	-	CTPM62x1,50	343,06	CTNPM62x1,50	343,06
M 62x2,00	CTM62x2,00	-	CTPM62x2,00	343,06	CTNPM62x2,00	343,06
M 62x3,00	CTM62x3,00	-	CTPM62x3,00	380,71	CTNPM62x3,00	380,71
M 64x1,00	CTM64x1,00	-	CTPM64x1,00	384,89	CTNPM64x1,00	384,89
M 64x1,50	CTM64x1,50	-	CTPM64x1,50	355,60	CTNPM64x1,50	355,60
M 64x2,00	CTM64x2,00	-	CTPM64x2,00	355,60	CTNPM64x2,00	355,60
M 64x3,00	CTM64x3,00	-	CTPM64x3,00	384,89	CTNPM64x3,00	384,89
M 64x4,00	CTM64x4,00	-	CTPM64x4,00	384,89	CTNPM64x4,00	384,89
M 64x6,00	CTM64x6,00	-	CTPM64x6,00	363,98	CTNPM64x6,00	363,98
M 65x1,00	CTM65x1,00	-	CTPM65x1,00	393,24	CTNPM65x1,00	393,24
M 65x2,00	CTM65x2,00	-	CTPM65x2,00	368,14	CTNPM65x2,00	368,14
M 65x3,00	CTM65x3,00	-	CTPM65x3,00	393,24	CTNPM65x3,00	393,24
M 68x1,00	CTM68x1,00	-	CTPM68x1,00	414,16	CTNPM68x1,00	414,16
M 68x1,50	CTM68x1,50	-	CTPM68x1,50	380,71	CTNPM68x1,50	380,71
M 68x2,00	CTM68x2,00	-	CTPM68x2,00	380,71	CTNPM68x2,00	380,71
M 68x3,00	CTM68x3,00	-	CTPM68x3,00	414,16	CTNPM68x3,00	414,16
M 68x4,00	CTM68x4,00	-	CTPM68x4,00	414,16	CTNPM68x4,00	414,16
M 68x6,00	CTM68x6,00	-	CTPM68x6,00	380,71	CTNPM68x6,00	380,71
M 70x1,00	CTM70x1,00	-	CTPM70x1,00	430,90	CTNPM70x1,00	430,90
M 70x1,50	CTM70x1,50	-	CTPM70x1,50	393,24	CTNPM70x1,50	393,24

CALIBRI FILETTATI M/MF - TAMPONI

M
MF

Ref. CT PASSA / NON PASSA Ref. CTP PASSA
Ref. CTNP NON PASSA

DIN 13 | DIN/ISO 1502 | TOL 6H | P 60° | X210 Cr12

Cert. * Il certificato del calibro è incluso nel prezzo.

		CT		CTP		CTNP
	PASSA / NON PASSA	€	PASSA	€	NON PASSA	€
M 70x2,00	CTM70x2,00	-	CTPM70x2,00	393,24	CTNPM70x2,00	393,24
M 70x3,00	CTM70x3,00	-	CTPM70x3,00	430,90	CTNPM70x3,00	430,90
M 70x4,00	CTM70x4,00	-	CTPM70x4,00	430,90	CTNPM70x4,00	430,90
M 70x6,00	CTM70x6,00	-	CTPM70x6,00	468,55	CTNPM70x6,00	468,55
M 72x1,00	CTM72x1,00	-	CTPM72x1,00	439,28	CTNPM72x1,00	439,28
M 72x1,50	CTM72x1,50	-	CTPM72x1,50	401,62	CTNPM72x1,50	401,62
M 72x2,00	CTM72x2,00	-	CTPM72x2,00	401,62	CTNPM72x2,00	401,62
M 72x3,00	CTM72x3,00	-	CTPM72x3,00	439,28	CTNPM72x3,00	439,28
M 72x4,00	CTM72x4,00	-	CTPM72x4,00	439,28	CTNPM72x4,00	439,28
M 72x6,00	CTM72x6,00	-	CTPM72x6,00	476,92	CTNPM72x6,00	476,92
M 75x1,00	CTM75x1,00	-	CTPM75x1,00	464,36	CTNPM75x1,00	464,36
M 75x1,50	CTM75x1,50	-	CTPM75x1,50	418,35	CTNPM75x1,50	418,35
M 75x2,00	CTM75x2,00	-	CTPM75x2,00	418,35	CTNPM75x2,00	418,35
M 75x3,00	CTM75x3,00	-	CTPM75x3,00	464,36	CTNPM75x3,00	464,36
M 75x4,00	CTM75x4,00	-	CTPM75x4,00	464,36	CTNPM75x4,00	464,36
M 76x1,00	CTM76x1,00	-	CTPM76x1,00	464,36	CTNPM76x1,00	464,36
M 76x1,50	CTM76x1,50	-	CTPM76x1,50	422,54	CTNPM76x1,50	422,54
M 76x2,00	CTM76x2,00	-	CTPM76x2,00	422,54	CTNPM76x2,00	422,54
M 76x3,00	CTM76x3,00	-	CTPM76x3,00	464,36	CTNPM76x3,00	464,36
M 76x4,00	CTM76x4,00	-	CTPM76x4,00	464,36	CTNPM76x4,00	464,36
M 76x6,00	CTM76x6,00	-	CTPM76x6,00	489,47	CTNPM76x6,00	489,47
M 80x1,00	CTM80x1,00	-	CTPM80x1,00	489,47	CTNPM80x1,00	489,47
M 80x1,50	CTM80x1,50	-	CTPM80x1,50	447,64	CTNPM80x1,50	447,64
M 80x2,00	CTM80x2,00	-	CTPM80x2,00	447,64	CTNPM80x2,00	447,64
M 80x3,00	CTM80x3,00	-	CTPM80x3,00	489,47	CTNPM80x3,00	489,47
M 80x4,00	CTM80x4,00	-	CTPM80x4,00	489,47	CTNPM80x4,00	489,47
M 80x6,00	CTM80x6,00	-	CTPM80x6,00	522,94	CTNPM80x6,00	522,94
M 85x1,50	CTM85x1,50	-	CTPM85x1,50	476,92	CTNPM85x1,50	476,92
M 85x2,00	CTM85x2,00	-	CTPM85x2,00	476,92	CTNPM85x2,00	476,92
M 85x3,00	CTM85x3,00	-	CTPM85x3,00	489,47	CTNPM85x3,00	489,47
M 85x4,00	CTM85x4,00	-	CTPM85x4,00	522,94	CTNPM85x4,00	522,94
M 85x6,00	CTM85x6,00	-	CTPM85x6,00	556,40	CTNPM85x6,00	556,40
M 90x1,50	CTM90x1,50	-	CTPM90x1,50	502,02	CTNPM90x1,50	502,02
M 90x2,00	CTM90x2,00	-	CTPM90x2,00	502,02	CTNPM90x2,00	502,02
M 90x3,00	CTM90x3,00	-	CTPM90x3,00	548,04	CTNPM90x3,00	548,04
M 90x4,00	CTM90x4,00	-	CTPM90x4,00	548,04	CTNPM90x4,00	548,04
M 90x6,00	CTM90x6,00	-	CTPM90x6,00	594,07	CTNPM90x6,00	594,07
M 95x1,50	CTM95x1,50	-	CTPM95x1,50	527,12	CTNPM95x1,50	527,12
M 95x2,00	CTM95x2,00	-	CTPM95x2,00	527,12	CTNPM95x2,00	527,12
M 95x4,00	CTM95x4,00	-	CTPM95x4,00	581,50	CTNPM95x4,00	581,50
M 95x6,00	CTM95x6,00	-	CTPM95x6,00	627,52	CTNPM95x6,00	627,52
M 100x1,50	CTM100x1,50	-	CTPM100x1,50	556,40	CTNPM100x1,50	556,40
M 100x2,00	CTM100x2,00	-	CTPM100x2,00	556,40	CTNPM100x2,00	556,40
M 100x3,00	CTM100x3,00	-	CTPM100x3,00	610,79	CTNPM100x3,00	610,79
M 100x4,00	CTM100x4,00	-	CTPM100x4,00	610,79	CTNPM100x4,00	610,79
M 100x6,00	CTM100x6,00	-	CTPM100x6,00	665,17	CTNPM100x6,00	665,17

CALIBRI FILETTATI M/MF - TAMPONI A TOLLERANZE SPECIALI

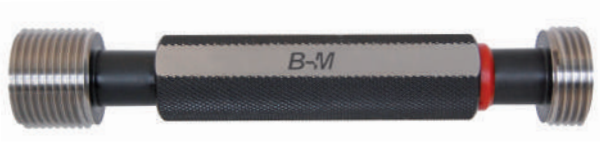
M MF

Ref. CTI
Ref. CT..-6G
Ref. CT..-6E

PASSA / NON PASSA

DIN 13	DIN/ISO 1502	TOL 6H (sinistra)	TOL 6G	TOL 6E	P 60°	X210 Cr12

Ref. CT



Cert. * Il certificato del calibro è incluso nel prezzo.

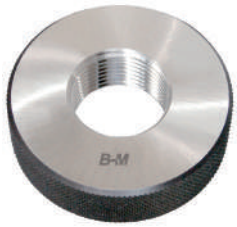
		CTI		CT..-6G		CT..-6E
	PASSA / NON PASSA	TOL 6H (sinistra) €	PASSA / NON PASSA	TOL 6G €	PASSA / NON PASSA	TOL 6E €
M 1x0,25	CTIM01x0,25	-	CTM01x0,25-6G	-		
M 1,1x0,25	CTIM01,1x0,25	770,98	CTM01,1x0,25-6G	-		
M 1,4x0,30	CTIM01,4x0,30	720,34	CTM01,4x0,30-6G	475,64		
M 2x0,40	CTIM02x0,40	236,36	CTM02x0,40-6G	156,07		
M 2,2x0,45	CTIM02,2x0,45	-	CTM02,2x0,45-6G	234,11		
M 2,3x0,40	CTIM02,3x0,40	438,94	CTM02,3x0,40-6G	289,84		
M 2,5x0,45	CTIM02,5x0,45	202,59	CTM02,5x0,45-6G	175,58		
M 2,6x0,45	CTIM02,6x0,45	292,63	CTM02,6x0,45-6G	253,62		
M 3x0,50	CTIM03x0,50	191,33	CTM03x0,50-6G	165,82	CTM03x0,50-6E	191,33
M 3,5x0,60	CTIM03,5x0,60	185,72	CTM03,5x0,60-6G	160,96		
M 4x0,70	CTIM04x0,70	180,08	CTM04x0,70-6G	156,05	CTM04x0,70-6E	180,08
M 4,5x0,75	CTIM04,5x0,75	264,50	CTM04,5x0,75-6G	229,24		
M 5x0,80	CTIM05x0,80	174,46	CTM05x0,80-6G	151,19	CTM05x0,80-6E	174,46
M 6x1,00	CTIM06x1,00	170,00	CTM06x1,00-6G	146,31	CTM06x1,00-6E	168,83
M 7x1,00	CTIM07x1,00	170,00	CTM07x1,00-6G	146,31		
M 08x1,00	CTIM08x1,00	-	CTM08x1,00-6G	-		
M 08x1,25	CTIM08x1,25	174,46	CTM08x1,25-6G	151,19	CTM08x1,25-6E	174,46
M 10x1,00	CTIM10x1,00	-	CTM10x1,00-6G	-		
M 10x1,25	CTIM10x1,25	-	CTM10x1,25-6G	-		
M 10x1,50	CTIM10x1,50	185,72	CTM10x1,50-6G	160,96	CTM10x1,50-6E	186,26
M 11x1,50	CTIM11x1,50	-	CTM11x1,50-6G	-		
M 12x1,00	CTIM12x1,00	-	CTM12x1,00-6G	-		
M 12x1,25	CTIM12x1,25	-	CTM12x1,25-6G	-		
M 12x1,50	CTIM12x1,50	-	CTM12x1,50-6G	-		
M 12x1,75	CTIM12x1,75	187,60	CTM12x1,75-6G	174,82		
M 14x1,25	CTIM14x1,25	-	CTM14x1,25-6G	-		
M 14x1,50	CTIM14x1,50	-	CTM14x1,50-6G	-		
M 14x2,00	CTIM14x2,00	208,22	CTM14x2,00-6G	180,46		
M 16x1,50	CTIM16x1,50	-	CTM16x1,50-6G	-		
M 16x2,00	CTIM16x2,00	230,73	CTM16x2,00-6G	192,35		
M 18x1,50	CTIM18x1,50	-	CTM18x1,50-6G	-		
M 18x2,50	CTIM18x2,50	247,62	CTM18x2,50-6G	214,59		
M 20x1,50	CTIM20x1,50	-	CTM20x1,50-6G	-		
M 20x2,50	CTIM20x2,50	264,50	CTM20x2,50-6G	229,24		
M 22x2,50	CTIM22x2,50	281,38	CTM22x2,50-6G	243,85		
M 24x1,50	CTIM24x1,50	-	CTM24x1,50-6G	-		
M 24x3,00	CTIM24x3,00	315,14	CTM24x3,00-6G	273,12		
M 27x3,00	CTIM27x3,00	348,89	CTM27x3,00-6G	302,39		
M 30x3,50	CTIM30x3,50	382,68	CTM30x3,50-6G	331,65		-

CALIBRI FILETTATI M/MF – ANELLI

M
MF

Ref. **AP**
Ref. **ANP**

DIN 13	DIN/ISO 1502	TOL 6g	P 60°	X210 Cr12



PASSA
Ref. **AP**



NON PASSA
Ref. **ANP**

Cert. * Il certificato del calibro è incluso nel prezzo.

	AP		ANP	
	PASSA	€	NON PASSA	€
M 2x0,40	APM02x0,40	174,82	ANPM02x0,40	174,82
M 2,2x0,45	APM02,2x0,45	204,66	ANPM02,2x0,45	204,66
M 2,5x0,45	APM02,5x0,45	132,19	ANPM02,5x0,45	132,19
M 3x0,50	APM03x0,50	127,92	ANPM03x0,50	127,92
M 3,5x0,60	APM03,5x0,60	119,38	ANPM03,5x0,60	119,38
M 4x0,50	APM04x0,50	244,77	ANPM04x0,50	244,77
M 4x0,70	APM04x0,70	119,38	ANPM04x0,70	119,38
M 4,5x0,75	APM04,5x0,75	170,55	ANPM04,5x0,75	170,55
M 5x0,50	APM05x0,50	244,77	ANPM05x0,50	244,77
M 5x0,75	APM05x0,75	176,03	ANPM05x0,75	176,03
M 5x0,80	APM05x0,80	119,38	ANPM05x0,80	119,38
M 6x0,50	APM06x0,50	244,77	ANPM06x0,50	244,77
M 6x0,75	APM06x0,75	167,65	ANPM06x0,75	167,65
M 6x1,00	APM06x1,00	119,38	ANPM06x1,00	119,38
M 7x0,75	APM07x0,75	176,03	ANPM07x0,75	176,03
M 7x1,00	APM07x1,00	146,19	ANPM07x1,00	146,19
M 8x0,50	APM08x0,50	231,36	ANPM08x0,50	231,36
M 8x0,75	APM08x0,75	169,00	ANPM08x0,75	169,00
M 8x1,00	APM08x1,00	123,22	ANPM08x1,00	123,22
M 8x1,25	APM08x1,25	119,38	ANPM08x1,25	119,38
M 9x0,75	APM09x0,75	186,60	ANPM09x0,75	186,60
M 9x1,00	APM09x1,00	126,74	ANPM09x1,00	126,74
M 9x1,25	APM09x1,25	162,43	ANPM09x1,25	162,43
M 10x0,75	APM10x0,75	177,71	ANPM10x0,75	177,71
M 10x1,00	APM10x1,00	140,82	ANPM10x1,00	140,82
M 10x1,25	APM10x1,25	151,39	ANPM10x1,25	151,39
M 10x1,50	APM10x1,50	136,45	ANPM10x1,50	136,45
M 11x1,00	APM11x1,00	144,34	ANPM11x1,00	144,34
M 11x1,50	APM11x1,50	196,15	ANPM11x1,50	196,15
M 12x0,75	APM12x0,75	214,59	ANPM12x0,75	214,59
M 12x1,00	APM12x1,00	158,44	ANPM12x1,00	158,44
M 12x1,25	APM12x1,25	172,51	ANPM12x1,25	172,51
M 12x1,50	APM12x1,50	154,92	ANPM12x1,50	154,92
M 12x1,75	APM12x1,75	157,78	ANPM12x1,75	157,78
M 13x1,00	APM13x1,00	221,80	ANPM13x1,00	221,80
M 13x1,50	APM13x1,50	238,79	ANPM13x1,50	238,79
M 14x1,00	APM14x1,00	172,51	ANPM14x1,00	172,51
M 14x1,25	APM14x1,25	186,60	ANPM14x1,25	186,60
M 14x1,50	APM14x1,50	161,96	ANPM14x1,50	161,96
M 14x2,00	APM14x2,00	174,82	ANPM14x2,00	174,82
M 15x1,00	APM15x1,00	225,31	ANPM15x1,00	225,31
M 15x1,50	APM15x1,50	211,24	ANPM15x1,50	211,24
M 16x1,00	APM16x1,00	186,60	ANPM16x1,00	186,60
M 16x1,50	APM16x1,50	179,56	ANPM16x1,50	179,56
M 16x2,00	APM16x2,00	191,88	ANPM16x2,00	191,88
M 18x1,00	APM18x1,00	204,21	ANPM18x1,00	204,21
M 18x1,50	APM18x1,50	193,63	ANPM18x1,50	193,63
M 18x2,00	APM18x2,00	211,24	ANPM18x2,00	211,24
M 18x2,50	APM18x2,50	221,73	ANPM18x2,50	221,73
M 20x1,00	APM20x1,00	214,77	ANPM20x1,00	214,77
M 20x1,50	APM20x1,50	211,24	ANPM20x1,50	211,24
M 20x2,00	APM20x2,00	225,31	ANPM20x2,00	225,31
M 20x2,50	APM20x2,50	247,31	ANPM20x2,50	247,31
M 22x1,00	APM22x1,00	254,84	ANPM22x1,00	254,84
M 22x1,50	APM22x1,50	225,31	ANPM22x1,50	225,31
M 22x2,00	APM22x2,00	242,92	ANPM22x2,00	242,92
M 22x2,50	APM22x2,50	268,63	ANPM22x2,50	268,63
M 24x1,00	APM24x1,00	257,01	ANPM24x1,00	257,01
M 24x1,50	APM24x1,50	242,92	ANPM24x1,50	242,92
M 24x2,00	APM24x2,00	257,01	ANPM24x2,00	257,01
M 24x3,00	APM24x3,00	272,08	ANPM24x3,00	272,08
M 25x1,00	APM25x1,00	285,01	ANPM25x1,00	285,01
M 25x1,50	APM25x1,50	249,97	ANPM25x1,50	249,97
M 25x2,00	APM25x2,00	257,01	ANPM25x2,00	257,01
M 26x1,00	APM26x1,00	309,82	ANPM26x1,00	309,82
M 26x1,50	APM26x1,50	257,01	ANPM26x1,50	257,01
M 26x2,00	APM26x2,00	315,52	ANPM26x2,00	315,52
M 27x1,00	APM27x1,00	305,12	ANPM27x1,00	305,12
M 27x1,50	APM27x1,50	264,05	ANPM27x1,50	264,05
M 27x2,00	APM27x2,00	278,13	ANPM27x2,00	278,13
M 27x3,00	APM27x3,00	304,57	ANPM27x3,00	304,57
M 28x1,50	APM28x1,50	267,58	ANPM28x1,50	267,58
M 28x2,00	APM28x2,00	304,78	ANPM28x2,00	304,78
M 30x1,00	APM30x1,00	309,82	ANPM30x1,00	309,82
M 30x1,50	APM30x1,50	285,17	ANPM30x1,50	285,17
M 30x2,00	APM30x2,00	285,17	ANPM30x2,00	285,17
M 30x3,00	APM30x3,00	305,12	ANPM30x3,00	305,12
M 30x3,50	APM30x3,50	320,20	ANPM30x3,50	320,20
M 32x1,00	APM32x1,00	330,94	ANPM32x1,00	330,94
M 32x1,50	APM32x1,50	302,78	ANPM32x1,50	302,78
M 32x2,00	APM32x2,00	331,78	ANPM32x2,00	331,78
M 33x1,00	APM33x1,00	337,98	ANPM33x1,00	337,98
M 33x1,50	APM33x1,50	313,34	ANPM33x1,50	313,34
M 33x2,00	APM33x2,00	316,86	ANPM33x2,00	316,86
M 33x3,00	APM33x3,00	337,98	ANPM33x3,00	337,98
M 33x3,50	APM33x3,50	328,92	ANPM33x3,50	328,92
M 34x1,00	APM34x1,00	335,30	ANPM34x1,00	335,30

CALIBRI FILETTATI M/MF – ANELLI

M
MF

Ref. AP
Ref. ANP

DIN 13 | DIN/ISO 1502 | TOL 6g | P 60° | X210 Cr12

Cert. * Il certificato del calibro è incluso nel prezzo.

	AP		ANP	
	PASSA	€	NON PASSA	€
M 34x1,50	APM34x1,50	301,77	ANPM34x1,50	301,77
M 34x2,00	APM34x2,00	339,91	ANPM34x2,00	339,91
M 35x1,00	APM35x1,00	310,83	ANPM35x1,00	310,83
M 35x1,50	APM35x1,50	280,65	ANPM35x1,50	280,65
M 35x2,00	APM35x2,00	365,47	ANPM35x2,00	365,47
M 36x1,00	APM36x1,00	313,84	ANPM36x1,00	313,84
M 36x1,50	APM36x1,50	283,67	ANPM36x1,50	283,67
M 36x2,00	APM36x2,00	301,77	ANPM36x2,00	301,77
M 36x4,00	APM36x4,00	354,51	ANPM36x4,00	354,51
M 38x1,00	APM38x1,00	331,96	ANPM38x1,00	331,96
M 38x1,50	APM38x1,50	298,76	ANPM38x1,50	298,76
M 38x2,00	APM38x2,00	398,38	ANPM38x2,00	398,38
M 39x1,00	APM39x1,00	350,05	ANPM39x1,00	350,05
M 39x1,50	APM39x1,50	316,85	ANPM39x1,50	316,85
M 39x2,00	APM39x2,00	328,92	ANPM39x2,00	328,92
M 39x3,00	APM39x3,00	344,02	ANPM39x3,00	344,02
M 39x4,00	APM39x4,00	387,41	ANPM39x4,00	387,41
M 40x1,00	APM40x1,00	350,05	ANPM40x1,00	350,05
M 40x1,50	APM40x1,50	316,85	ANPM40x1,50	316,85
M 40x2,00	APM40x2,00	334,96	ANPM40x2,00	334,96
M 40x3,00	APM40x3,00	423,95	ANPM40x3,00	423,95
M 42x1,00	APM42x1,00	455,67	ANPM42x1,00	455,67
M 42x1,50	APM42x1,50	365,47	ANPM42x1,50	365,47
M 42x2,00	APM42x2,00	375,54	ANPM42x2,00	375,54
M 42x3,00	APM42x3,00	402,36	ANPM42x3,00	402,36
M 42x4,50	APM42x4,50	416,65	ANPM42x4,50	416,65
M 45x1,00	APM45x1,00	482,82	ANPM45x1,00	482,82
M 45x1,50	APM45x1,50	385,59	ANPM45x1,50	385,59
M 45x2,00	APM45x2,00	385,59	ANPM45x2,00	385,59
M 45x3,00	APM45x3,00	412,42	ANPM45x3,00	412,42
M 45x4,00	APM45x4,00	525,07	ANPM45x4,00	525,07
M 45x4,50	APM45x4,50	442,24	ANPM45x4,50	442,24
M 48x1,00	APM48x1,00	510,00	ANPM48x1,00	510,00
M 48x1,50	APM48x1,50	412,42	ANPM48x1,50	412,42
M 48x2,00	APM48x2,00	388,95	ANPM48x2,00	388,95
M 48x3,00	APM48x3,00	422,47	ANPM48x3,00	422,47
M 48x4,00	APM48x4,00	558,28	ANPM48x4,00	558,28
M 48x5,00	APM48x5,00	471,47	ANPM48x5,00	471,47
M 50x1,00	APM50x1,00	537,15	ANPM50x1,00	537,15
M 50x1,50	APM50x1,50	422,47	ANPM50x1,50	422,47
M 50x2,00	APM50x2,00	409,07	ANPM50x2,00	409,07
M 50x3,00	APM50x3,00	475,12	ANPM50x3,00	475,12
M 52x1,00	APM52x1,00	561,29	ANPM52x1,00	561,29
M 52x1,50	APM52x1,50	445,94	ANPM52x1,50	445,94
M 52x2,00	APM52x2,00	422,47	ANPM52x2,00	422,47
M 52x3,00	APM52x3,00	472,78	ANPM52x3,00	472,78
M 52x4,00	APM52x4,00	615,61	ANPM52x4,00	615,61
M 52x5,00	APM52x5,00	508,01	ANPM52x5,00	508,01
M 55x1,00	APM55x1,00	591,48	ANPM55x1,00	591,48

	AP		ANP	
	PASSA	€	NON PASSA	€
M 55x1,50	APM55x1,50	419,45	ANPM55x1,50	419,45
M 55x2,00	APM55x2,00	435,89	ANPM55x2,00	435,89
M 55x3,00	APM55x3,00	449,64	ANPM55x3,00	449,64
M 55x4,00	APM55x4,00	605,48	ANPM55x4,00	605,48
M 56x1,00	APM56x1,00	670,60	ANPM56x1,00	670,60
M 56x1,50	APM56x1,50	472,78	ANPM56x1,50	472,78
M 56x2,00	APM56x2,00	452,66	ANPM56x2,00	452,66
M 56x3,00	APM56x3,00	506,30	ANPM56x3,00	506,30
M 56x4,00	APM56x4,00	509,33	ANPM56x4,00	509,33
M 56x5,50	APM56x5,50	617,25	ANPM56x5,50	617,25
M 58x1,00	APM58x1,00	481,16	ANPM58x1,00	481,16
M 58x1,50	APM58x1,50	486,18	ANPM58x1,50	486,18
M 58x2,00	APM58x2,00	479,48	ANPM58x2,00	479,48
M 58x3,00	APM58x3,00	476,92	ANPM58x3,00	476,92
M 60x1,00	APM60x1,00	527,69	ANPM60x1,00	527,69
M 60x1,50	APM60x1,50	490,51	ANPM60x1,50	490,51
M 60x2,00	APM60x2,00	505,00	ANPM60x2,00	505,00
M 60x3,00	APM60x3,00	517,51	ANPM60x3,00	517,51
M 60x4,00	APM60x4,00	568,51	ANPM60x4,00	568,51
M 60x5,50	APM60x5,50	577,45	ANPM60x5,50	577,45
M 62x1,00	APM62x1,00	595,76	ANPM62x1,00	595,76
M 62x1,50	APM62x1,50	490,51	ANPM62x1,50	490,51
M 62x2,00	APM62x2,00	505,00	ANPM62x2,00	505,00
M 62x3,00	APM62x3,00	517,51	ANPM62x3,00	517,51
M 64x1,00	APM64x1,00	663,80	ANPM64x1,00	663,80
M 64x1,50	APM64x1,50	490,51	ANPM64x1,50	490,51
M 64x2,00	APM64x2,00	505,00	ANPM64x2,00	505,00
M 64x3,00	APM64x3,00	517,51	ANPM64x3,00	517,51
M 64x4,00	APM64x4,00	568,51	ANPM64x4,00	568,51
M 64x6,00	APM64x6,00	614,00	ANPM64x6,00	614,00
M 65x1,00	APM65x1,00	680,04	ANPM65x1,00	680,04
M 65x1,50	APM65x1,50	482,82	ANPM65x1,50	482,82
M 65x2,00	APM65x2,00	476,79	ANPM65x2,00	476,79
M 65x3,00	APM65x3,00	639,58	ANPM65x3,00	639,58
M 68x1,00	APM68x1,00	681,66	ANPM68x1,00	681,66
M 68x1,50	APM68x1,50	490,51	ANPM68x1,50	490,51
M 68x2,00	APM68x2,00	505,00	ANPM68x2,00	505,00
M 68x3,00	APM68x3,00	517,51	ANPM68x3,00	517,51
M 68x4,00	APM68x4,00	568,51	ANPM68x4,00	568,51
M 68x6,00	APM68x6,00	650,55	ANPM68x6,00	650,55
M 70x1,00	APM70x1,00	708,99	ANPM70x1,00	708,99
M 70x1,50	APM70x1,50	490,51	ANPM70x1,50	490,51
M 70x2,00	APM70x2,00	505,00	ANPM70x2,00	505,00
M 70x3,00	APM70x3,00	517,51	ANPM70x3,00	517,51
M 70x4,00	APM70x4,00	568,51	ANPM70x4,00	568,51
M 70x6,00	APM70x6,00	686,42	ANPM70x6,00	686,42
M 72x1,00	APM72x1,00	718,06	ANPM72x1,00	718,06
M 72x1,50	APM72x1,50	490,51	ANPM72x1,50	490,51
M 72x2,00	APM72x2,00	505,00	ANPM72x2,00	505,00

CALIBRI FILETTATI M/MF – ANELLI

M MF

Ref. AP
Ref. ANP

DIN 13 | DIN/ISO 1502 | TOL 6g | P 60° | X210 Cr12 | Cert.

* Il certificato del calibro è incluso nel prezzo.

	AP		ANP	
	PASSA	€	NON PASSA	€
M 72x3,00	APM72x3,00	517,51	ANPM72x3,00	517,51
M 72x4,00	APM72x4,00	568,51	ANPM72x4,00	568,51
M 72x6,00	APM72x6,00	704,56	ANPM72x6,00	704,56
M 75x1,00	APM75x1,00	743,18	ANPM75x1,00	743,18
M 75x1,50	APM75x1,50	586,77	ANPM75x1,50	586,77
M 75x2,00	APM75x2,00	613,61	ANPM75x2,00	613,61
M 75x3,00	APM75x3,00	670,60	ANPM75x3,00	670,60
M 75x4,00	APM75x4,00	728,44	ANPM75x4,00	728,44
M 76x1,50	APM76x1,50	606,90	ANPM76x1,50	606,90
M 76x2,00	APM76x2,00	620,31	ANPM76x2,00	620,31
M 76x3,00	APM76x3,00	670,60	ANPM76x3,00	670,60
M 76x4,00	APM76x4,00	962,31	ANPM76x4,00	962,31
M 76x6,00	APM76x6,00	769,22	ANPM76x6,00	769,22
M 80x1,50	APM80x1,50	684,02	ANPM80x1,50	684,02
M 80x2,00	APM80x2,00	657,20	ANPM80x2,00	657,20
M 80x3,00	APM80x3,00	751,08	ANPM80x3,00	751,08
M 80x4,00	APM80x4,00	753,42	ANPM80x4,00	753,42
M 80x6,00	APM80x6,00	777,03	ANPM80x6,00	777,03
M 85x1,50	APM85x1,50	724,25	ANPM85x1,50	724,25

	AP		ANP	
	PASSA	€	NON PASSA	€
M 85x2,00	APM85x2,00	707,49	ANPM85x2,00	707,49
M 85x3,00	APM85x3,00	737,38	ANPM85x3,00	737,38
M 85x4,00	APM85x4,00	781,59	ANPM85x4,00	781,59
M 85x6,00	APM85x6,00	867,75	ANPM85x6,00	867,75
M 90x1,50	APM90x1,50	767,85	ANPM90x1,50	767,85
M 90x2,00	APM90x2,00	764,49	ANPM90x2,00	764,49
M 90x3,00	APM90x3,00	922,08	ANPM90x3,00	922,08
M 90x4,00	APM90x4,00	847,31	ANPM90x4,00	847,31
M 90x6,00	APM90x6,00	901,94	ANPM90x6,00	901,94
M 95x1,50	APM95x1,50	808,08	ANPM95x1,50	808,08
M 95x2,00	APM95x2,00	814,80	ANPM95x2,00	814,80
M 95x4,00	APM95x4,00	894,25	ANPM95x4,00	894,25
M 95x6,00	APM95x6,00	1.003,83	ANPM95x6,00	1.003,83
M 100x1,50	APM100x1,50	851,66	ANPM100x1,50	851,66
M 100x2,00	APM100x2,00	865,08	ANPM100x2,00	865,08
M 100x3,00	APM100x3,00	1.022,67	ANPM100x3,00	1.022,67
M 100x4,00	APM100x4,00	938,84	ANPM100x4,00	938,84
M 100x6,00	APM100x6,00	1.034,58	ANPM100x6,00	1.034,58

CALIBRI FILETTATI M/MF – ANELLI A TOLLERANZE SPECIALI

M MF

Ref. API
Ref. ANPI
Ref. AP..-6e
Ref. ANP..-6e

DIN 13 | DIN/ISO 1502 | TOL 6g (sinistra) | TOL 6e | P 60° | X210 Cr12 | Cert.

* Il certificato del calibro è incluso nel prezzo.

	API		ANPI		AP..6e		ANP..6e	
	PASSA	TOL 6g (sinistra) €	NON PASSA	TOL 6g (sinistra) €	PASSA	TOL 6e €	NON PASSA	TOL 6e €
M 2x0,40	APIM02x0,40	240,59	ANPIM02x0,40	240,59	APM02x0,40-6e	-	ANPM02x0,40-6e	-
M 2,5x0,45	APIM02,5x0,45	181,92	ANPIM02,5x0,45	181,92	APM02,5x0,45-6e	-	ANPM02,5x0,45-6e	-
M 3x0,50	APIM03x0,50	176,03	ANPIM03x0,50	176,03	APM03x0,50-6e	176,03	ANPM03x0,50-6e	176,03
M 3,5x0,60	APIM03,5x0,60	164,29	ANPIM03,5x0,60	164,29	APM03,5x0,60-6e	164,29	ANPM03,5x0,60-6e	164,29
M 4x0,70	APIM04x0,70	164,29	ANPIM04x0,70	164,29	APM04x0,70-6e	164,29	ANPM04x0,70-6e	164,29
M 4,5x0,75	APIM04,5x0,75	246,46	ANPIM04,5x0,75	246,46	APM04,5x0,75-6e	-	ANPM04,5x0,75-6e	-
M 5x0,80	APIM05x0,80	164,29	ANPIM05x0,80	164,29	APM05x0,80-6e	164,29	ANPM05x0,80-6e	164,29
M 6x1,00	APIM06x1,00	164,29	ANPIM06x1,00	164,29	APM06x1,00-6e	164,29	ANPM06x1,00-6e	164,29
M 7x1,00	APIM07x1,00	211,24	ANPIM07x1,00	211,24	APM07x1,00-6e	211,24	ANPM07x1,00-6e	211,24
M 8x1,25	APIM08x1,25	164,29	ANPIM08x1,25	164,29	APM08x1,25-6e	164,29	ANPM08x1,25-6e	164,29
M 10x1,50	APIM10x1,50	187,78	ANPIM10x1,50	187,78	APM10x1,50-6e	187,78	ANPM10x1,50-6e	187,78
M 12x1,75	APIM12x1,75	217,11	ANPIM12x1,75	217,11	APM12x1,75-6e	217,11	ANPM12x1,75-6e	217,11
M 14x2,00	APIM14x2,00	240,59	ANPIM14x2,00	240,59	APM14x2,00-6e	240,59	ANPM14x2,00-6e	240,59
M 16x2,00	APIM16x2,00	264,06	ANPIM16x2,00	264,06	APM16x2,00-6e	264,06	ANPM16x2,00-6e	264,06
M 18x2,50	APIM18x2,50	305,12	ANPIM18x2,50	305,12	APM18x2,50-6e	305,12	ANPM18x2,50-6e	305,12
M 20x2,50	APIM20x2,50	340,33	ANPIM20x2,50	340,33	APM20x2,50-6e	340,33	ANPM20x2,50-6e	340,33
M 22x2,50	APIM22x2,50	369,67	ANPIM22x2,50	369,67	APM22x2,50-6e	-	ANPM22x2,50-6e	-
M 24x3,00	APIM24x3,00	393,14	ANPIM24x3,00	393,14	APM24x3,00-6e	-	ANPM24x3,00-6e	-
M 27x3,00	APIM27x3,00	440,09	ANPIM27x3,00	440,09	APM27x3,00-6e	-	ANPM27x3,00-6e	-
M 30x3,50	APIM30x3,50	487,03	ANPIM30x3,50	487,03	APM30x3,50-6e	-	ANPM30x3,50-6e	-

CALIBRI FILETTATI BSP - TAMPONI E ANELLI

BSP

Ref. CT — PASSA / NON PASSA
Ref. CTP — PASSA
Ref. CTNP — NON PASSA

DIN EN ISO 228-2 | P 55° | X210 Cr12 | Cert. * Il certificato del calibro è incluso nel prezzo.

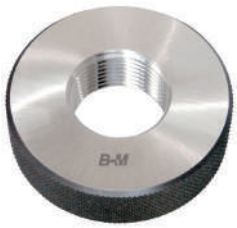
		CT		CTP		CTNP
	PASSA / NON PASSA	€	PASSA	€	NON PASSA	€
G 1/8-28h.	CTG1/8X28	138,45		-		-
G 1/4-19h.	CTG1/4X19	151,04		-		-
G 3/8-19h.	CTG3/8X19	176,21		-		-
G 1/2-14h.	CTG1/2X14	169,11		-		-
G 5/8-14h.	CTG5/8X14	213,97		-		-
G 3/4-14h.	CTG3/4X14	234,95		-		-
G 7/8-14h.	CTG7/8X14	264,31		-		-
G 1"-11h.	CTG1X11	276,90		-		-
G 1"1/8-11h.	CTG1.1/8X11	318,86		-		-
G 1"1/4-11h.	CTG1.1/4X11	348,22		-		-
G 1"1/2-11h.	CTG1.1/2X11	406,95		-		-
G 1"3/4-11h.	CTG1.3/4X11	-	CTPG1.3/4X11	243,73	CTNPG1.3/4X11	243,73
G 2"-11h.	CTG2X11	-	CTPG2X11	267,70	CTNPG2X11	267,70
G 2"1/4-11h.	CTG2.1/4X11	-	CTPG2.1/4X11	291,69	CTNPG2.1/4X11	291,69
G 2"1/2-11h.	CTG2.1/2X11	-	CTPG2.1/2X11	339,64	CTNPG2.1/2X11	339,64
G 2"3/4-11h.	CTG2.3/4X11	-	CTPG2.3/4X11	385,99	CTNPG2.3/4X11	385,99
G 3"-11h.	CTG3X11	-	CTPG3X11	415,35	CTNPG3X11	415,35
G 3"1/2-11h.	CTG3.1/2X11	-	CTPG3.1/2X11	738,41	CTNPG3.1/2X11	738,41
G 4"-11h.	CTG4X11	-	CTPG4X11	805,54	CTNPG4X11	805,54

BSP

Ref. AP
Ref. ANP

DIN EN ISO 228-2 | P 55° | X210 Cr12 | Cert. * Il certificato del calibro è incluso nel prezzo.

Ref. **AP**



PASSA

Ref. **ANP**



NON PASSA

		AP		ANP
	PASSA	€	NON PASSA	€
G 1/8-28h.	APG1/8X28	156,48	ANPG1/8X28	156,48
G 1/4-19h.	APG1/4X19	183,86	ANPG1/4X19	183,86
G 3/8-19h.	APG3/8X19	222,97	ANPG3/8X19	222,97
G 1/2-14h.	APG1/2X14	215,15	ANPG1/2X14	215,15
G 5/8-14h.	APG5/8X14	226,54	ANPG5/8X14	226,54
G 3/4-14h.	APG3/4X14	245,88	ANPG3/4X14	245,88
G 7/8-14h.	APG7/8X14	276,63	ANPG7/8X14	276,63
G 1"-11h.	APG1X11	303,51	ANPG1X11	303,51
G 1"1/8-11h.	APG1.1/8X11	352,07	ANPG1.1/8X11	352,07
G 1"1/4-11h.	APG1.1/4X11	387,28	ANPG1.1/4X11	387,28
G 1"1/2-11h.	APG1.1/2X11	438,13	ANPG1.1/2X11	438,13
G 1"3/4-11h.	APG1.3/4X11	485,07	ANPG1.3/4X11	485,07
G 2"-11h.	APG2X11	535,94	ANPG2X11	535,94
G 2"1/4-11h.	APG2.1/4X11	578,96	ANPG2.1/4X11	578,96
G 2"1/2-11h.	APG2.1/2X11	661,10	ANPG2.1/2X11	661,10
G 2"3/4-11h.	APG2.3/4X11	711,54	ANPG2.3/4X11	711,54
G 3"-11h.	APG3X11	774,55	ANPG3X11	774,55
G 3"1/2-11h.	APG3.1/2X11	1.028,81	ANPG3.1/2X11	1.028,81
G 4"-11h	APG4X11	1.126,61	ANPG4X11	1.126,61

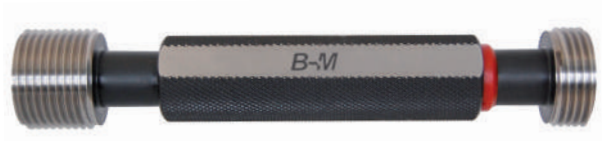
CALIBRI FILETTATI UNC - TAMPONI

UNC

Ref. CTNC PASSA / NON PASSA
Ref. CTPNC PASSA
Ref. CTNPNC NON PASSA
Ref. CTNC..3B

ANSI ASME B1.2 | TOL 2B | TOL 3B | P 60° | X210 Cr12

Ref. CTNC



Cert. * Il certificato del calibro è incluso nel prezzo.

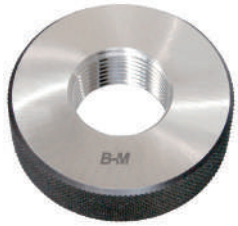
	CTNC		CTPNC		CTNPNC		CTNC..3B	
	PASSA / NON PASSA	€	PASSA	€	NON PASSA	€	PASSA / NON PASSA	€
UNC Nº4-40h.	CTNCNº4-40	213,00		-		-	CTNCNº4-40-3B	276,90
UNC Nº5-40h.	CTNCNº5-40	212,08		-		-	CTNCNº5-40-3B	289,49
UNC Nº6-32h.	CTNCNº6-32	129,09		-		-	CTNCNº6-32-3B	167,82
UNC Nº8-32h.	CTNCNº8-32	125,86		-		-	CTNCNº8-32-3B	163,62
UNC Nº10-24h.	CTNCNº10-24	122,63		-		-	CTNCNº10-24-3B	159,42
UNC Nº12-24h.	CTNCNº12-24	122,63		-		-	CTNCNº12-24-3B	151,04
UNC1/4-20h.	CTNC1/4X20	116,19		-		-	CTNC1/4X20-3B	151,04
UNC 5/16-18h.	CTNC5/16X18	122,63		-		-	CTNC5/16X18-3B	159,42
UNC 3/8-16h.	CTNC3/8X16	122,63		-		-	CTNC3/8X16-3B	159,42
UNC 7/16-14h.	CTNC7/16X14	129,09		-		-	CTNC7/16X14-3B	167,82
UNC 1/2-13h.	CTNC1/2X13	138,77		-		-	CTNC1/2X13-3B	180,40
UNC 9/16-12h.	CTNC9/16X12	148,46		-		-	CTNC9/16X12-3B	193,00
UNC 5/8-11h.	CTNC5/8X11	154,92		-		-	CTNC5/8X11-3B	201,39
UNC 3/4-10h.	CTNC3/4X10	177,50		-		-	CTNC3/4X10-3B	230,75
UNC 7/8-9h.	CTNC7/8X9	200,09		-		-	CTNC7/8X9-3B	260,12
UNC 1"-8h.	CTNC1X8	225,91		-		-	CTNC1X8-3B	293,68
UNC 1"1/8-7h.	CTNC1.1/8X7	251,73		-		-		-
UNC 1"1/4-7h.	CTNC1.1/4X7	274,32		-		-		-
UNC 1"3/8-6h.	CTNC1.3/8X6	296,91		-		-		-
UNC 1"1/2-6h.	CTNC1.1/2X6	332,41		-		-		-
UNC 1"3/4-5h.	CTNC1.3/4X5	-	CTPNC1.3/4X5	219,46	CTNPNC1.3/4X5	219,46		-
UNC 2"-4.1/2h.	CTNC2X4,5	-	CTPNC2X4,5	251,73	CTNPNC2X4,5	251,73		-
UNC 2"1/4-4.1/2h.	CTNC2.1/4X4,5	-	CTPNC2.1/4X4,5	280,78	CTNPNC2.1/4X4,5	280,78		-
UNC 2"1/2-4h.	CTNC2.1/2X4	-	CTPNC2.1/2X4	316,28	CTNPNC2.1/2X4	316,28		-
UNC 2"3/4-4h.	CTNC2.3/4X4	-	CTPNC2.3/4X4	348,55	CTNPNC2.3/4X4	348,55		-
UNC 3"-4h.	CTNC3X4	-	CTPNC3X4	380,81	CTNPNC3X4	380,81		-
UNC 3"1/4-4h.	CTNC3.1/4X4	-	CTPNC3.1/4X4	416,32	CTNPNC3.1/4X4	416,32		-
UNC 3"1/2-4h.	CTNC3.1/2X4	-	CTPNC3.1/2X4	448,59	CTNPNC3.1/2X4	448,59		-
UNC 4"-4h.	CTNC4X4	-	CTPNC4X4	513,14	CTNPNC4X4	513,14		-

CALIBRI FILETTATI UNC - ANELLI

UNC

Ref. APNC
Ref. ANPNC
Ref. APNC..3A
Ref. ANPNC..3A

ANSI ASME B1.2 | TOL 2A | TOL 3A | P 60° | X210 Cr12



PASSA
Ref. APNC



NON PASSA
Ref. ANPNC

Cert. * Il certificato del calibro è incluso nel prezzo.

	APNC		ANPNC		APNC..3A		ANPNC..3A	
	PASSA	TOL 2A €	NON PASSA	TOL 2A €	PASSA	TOL 3A €	NON PASSA	TOL 3A €
UNC Nº4-40h.	APNCNº4-40	203,42	ANPNCNº4-40	203,42	APNCNº4-40-3A	264,46	ANPNCNº4-40-3A	264,46
UNC Nº5-40h.	APNCNº5-40	150,22	ANPNCNº5-40	150,22	APNCNº5-40-3A	195,27	ANPNCNº5-40-3A	195,27
UNC Nº6-32h.	APNCNº6-32	143,96	ANPNCNº6-32	143,96	APNCNº6-32-3A	187,15	ANPNCNº6-32-3A	187,15
UNC Nº8-32h.	APNCNº8-32	134,57	ANPNCNº8-32	134,57	APNCNº8-32-3A	174,94	ANPNCNº8-32-3A	174,94
UNC Nº10-24h.	APNCNº10-24	128,31	ANPNCNº10-24	128,31	APNCNº10-24-3A	166,78	ANPNCNº10-24-3A	166,78
UNC Nº12-24h.	APNCNº12-24	125,18	ANPNCNº12-24	125,18	APNCNº12-24-3A	162,73	ANPNCNº12-24-3A	162,73
UNC 1/4-20h.	APNC1/4X20	125,18	ANPNC1/4X20	125,18	APNC1/4X20-3A	162,73	ANPNC1/4X20-3A	162,73
UNC 5/16-18h.	APNC5/16X18	134,57	ANPNC5/16X18	134,57	APNC5/16X18-3A	174,94	ANPNC5/16X18-3A	174,94
UNC 3/8-16h.	APNC3/8X16	143,96	ANPNC3/8X16	143,96	APNC3/8X16-3A	187,15	ANPNC3/8X16-3A	187,15
UNC 7/16-14h.	APNC7/16X14	156,48	ANPNC7/16X14	156,48	APNC7/16X14-3A	203,42	ANPNC7/16X14-3A	203,42
UNC 1/2-13h.	APNC1/2X13	175,25	ANPNC1/2X13	175,25	APNC1/2X13-3A	227,84	ANPNC1/2X13-3A	227,84
UNC 9/16-12h.	APNC9/16X12	197,15	ANPNC9/16X12	197,15	APNC9/16X12-3A	256,31	ANPNC9/16X12-3A	256,31
UNC 5/8-11h.	APNC5/8X11	215,94	ANPNC5/8X11	215,94	APNC5/8X11-3A	280,79	ANPNC5/8X11-3A	280,79
UNC 3/4-10h.	APNC3/4X10	247,22	ANPNC3/4X10	247,22	APNC3/4X10-3A	321,41	ANPNC3/4X10-3A	321,41
UNC 7/8-9h.	APNC7/8X9	271,23	ANPNC7/8X9	271,23		-		-
UNC 1"-8h.	APNC1X8	309,97	ANPNC1X8	309,97		-		-
UNC 1"1/8-7h.	APNC1.1/8X7	342,75	ANPNC1.1/8X7	342,75		-		-
UNC 1"1/4-7h.	APNC1.1/4X7	396,40	ANPNC1.1/4X7	396,40		-		-
UNC 1"3/8-6h.	APNC1.3/8X6	435,15	ANPNC1.3/8X6	435,15		-		-
UNC 1"1/2-6h.	APNC1.1/2X6	464,95	ANPNC1.1/2X6	464,95		-		-
UNC 1"3/4-5h.	APNC1.3/4X5	572,70	ANPNC1.3/4X5	572,70		-		-
UNC 2"-4.1/2h.	APNC2x4,5	657,20	ANPNC2x4,5	657,20		-		-
UNC 2"1/4-4.1/2h.	APNC2.1/4x4,5	747,94	ANPNC2.1/4x4,5	747,94		-		-
UNC 2"1/2-4h.	APNC2.1/2x4	838,71	ANPNC2.1/2x4	838,71		-		-
UNC 2"3/4-4h.	APNC2.3/4X4	932,58	ANPNC2.3/4X4	932,58		-		-
UNC 3"-4h.	APNC3x4	921,05	ANPNC3X4	921,05		-		-
UNC 3"1/4-4h.	APNC3.1/4x4	1.007,99	ANPNC3.1/4x4	1.007,99		-		-
UNC 3"1/2-4h.	APNC3.1/2x4	1.033,31	ANPNC3.1/2x4	1.033,31		-		-
UNC 4"-4h.	APNC4x4	1.077,54	ANPNC4X4	1.077,54		-		-

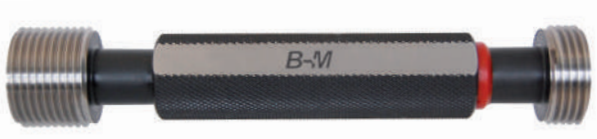
CALIBRI FILETTATI UNF - TAMPONI

UNF

Ref. CTNF
Ref. CTNF..3B PASSA / NON PASSA

ANSI ASME B1.2 | TOL 2B | TOL 3B | P 60° | X210 Cr12

Ref. CTNF



Cert. * Il certificato del calibro è incluso nel prezzo.

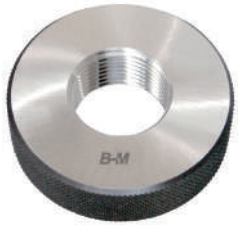
	CTNF		CTNF..3B	
	PASSA / NON PASSA	TOL 2B €	PASSA / NON PASSA	TOL 3B €
UNF Nº0-80h.	CTNFNº0-80	290,47	CTNFNº0-80-3B	-
UNF Nº1-72h.	CTNFNº1-72	248,51	CTNFNº1-72-3B	-
UNF Nº2-64h.	CTNFNº2-64	232,37	CTNFNº2-64-3B	-
UNF Nº3-56h.	CTNFNº3-56	213,00	CTNFNº3-56-3B	-
UNF Nº4-48h.	CTNFNº4-48	213,00	CTNFNº4-48-3B	276,90
UNF Nº5-44h.	CTNFNº5-44	135,55	CTNFNº5-44-3B	176,21
UNF Nº6-40h.	CTNFNº6-40	129,09	CTNFNº6-40-3B	167,82
UNF Nº8-36h.	CTNFNº8-36	125,86	CTNFNº8-36-3B	169,50
UNF Nº10-32h.	CTNFNº10-32	122,63	CTNFNº10-32-3B	159,42
UNF Nº12-28h.	CTNFNº12-28	116,19	CTNFNº12-28-3B	151,04
UNF 1/4-28h.	CTNF1/4X28	116,19	CTNF1/4X28-3B	151,04
UNF 5/16-24h.	CTNF5/16X24	122,63	CTNF5/16X24-3B	159,42
UNF 3/8-24h.	CTNF3/8X24	122,63	CTNF3/8X24-3B	159,42
UNF 7/16-20h.	CTNF7/16X20	129,09	CTNF7/16X20-3B	167,82
UNF 1/2-20h.	CTNF1/2X20	138,77	CTNF1/2X20-3B	180,40
UNF 9/16-18h.	CTNF9/16X18	148,46	CTNF9/16X18-3B	193,00
UNF 5/8-18h.	CTNF5/8X18	151,69	CTNF5/8X18-3B	197,19
UNF 3/4-16h.	CTNF3/4X16	167,82	CTNF3/4X16-3B	218,16
UNF 7/8-14h.	CTNF7/8X14	183,97	CTNF7/8X14-3B	239,13
UNF 1"-12h.	CTNF1X12	206,54	CTNF1X12-3B	268,51
UNF 1"1/8-12h.	CTNF1.1/8X12	225,91	CTNF1.1/8X12-3B	-
UNF 1"1/4-12h.	CTNF1.1/4X12	238,82	CTNF1.1/4X12-3B	-
UNF 1"3/8-12h.	CTNF1.3/8X12	264,64	CTNF1.3/8X12-3B	-
UNF 1"1/2-12h.	CTNF1.1/2X12	290,47	CTNF1.1/2X12-3B	-

CALIBRI FILETTATI UNF - ANELLI

UNF

Ref. **APNF**
Ref. **ANPNF**
Ref. **APNF..3A**
Ref. **ANPNF..3A**

ANSI ASME B1.2 | **TOL 2A** | **TOL 3A** | P 60° | **X210 Cr12**



PASSA
Ref. **APNF**



NON PASSA
Ref. **ANPNF**

Cert. * Il certificato del calibro è incluso nel prezzo.

	APNF		**ANPNF**		**APNF..3A**		**ANPNF..3A**	
	PASSA	TOL 2A €	NON PASSA	TOL 2A €	PASSA	TOL 3A €	NON PASSA	TOL 3A €
UNF Nº0-80h.	APNFNº0-80	284,80	ANPNFNº0-80	284,80		-		-
UNF Nº1-72h.	APNFNº1-72	237,85	ANPNFNº1-72	237,85		-		-
UNF Nº2-64h.	APNFNº2-64	222,20	ANPNFNº2-64	222,20		-		-
UNF Nº3-56h.	APNFNº3-56	212,80	ANPNFNº3-56	212,80		-		-
UNF Nº4-48h.	APNFNº4-48	200,29	ANPNFNº4-48	200,29	APNFNº4-48-3A	260,37	ANPNFNº4-48-3A	260,37
UNF Nº5-44h.	APNFNº5-44	150,22	ANPNFNº5-44	150,22	APNFNº5-44-3A	195,27	ANPNFNº5-44-3A	195,27
UNF Nº6-40h.	APNFNº6-40	143,96	ANPNFNº6-40	143,96	APNFNº6-40-3A	187,15	ANPNFNº6-40-3A	187,15
UNF Nº8-36h.	APNFNº8-36	134,57	ANPNFNº8-36	134,57	APNFNº8-36-3A	174,94	ANPNFNº8-36-3A	174,94
UNF Nº10-32h.	APNFNº10-32	128,31	ANPNFNº10-32	128,31	APNFNº10-32-3A	170,40	ANPNFNº10-32-3A	170,40
UNF Nº12-28h.	APNFNº12-28	125,18	ANPNFNº12-28	125,18	APNFNº12-28-3A	162,73	ANPNFNº12-28-3A	162,73
UNF 1/4-28h.	APNF1/4X28	125,18	ANPNF1/4X28	125,18	APNF1/4X28-3A	162,73	ANPNF1/4X28-3A	162,73
UNF 5/16-24h.	APNF5/16X24	134,57	ANPNF5/16X24	134,57	APNF5/16X24-3A	174,94	ANPNF5/16X24-3A	174,94
UNF 3/8-24h.	APNF3/8X24	143,96	ANPNF3/8X24	143,96	APNF3/8X24-3A	187,15	ANPNF3/8X24-3A	187,15
UNF 7/16-20h.	APNF7/16X20	156,48	ANPNF7/16X20	156,48	APNF7/16X20-3A	203,42	ANPNF7/16X20-3A	203,42
UNF 1/2-20h.	APNF1/2X20	175,25	ANPNF1/2X20	175,25	APNF1/2X20-3A	227,84	ANPNF1/2X20-3A	227,84
UNF 9/16-18h.	APNF9/16X18	197,15	ANPNF9/16X18	197,15	APNF9/16X18-3A	256,31	ANPNF9/16X18-3A	256,31
UNF 5/8-18h.	APNF5/8X18	215,94	ANPNF5/8X18	215,94	APNF5/8X18-3A	280,72	ANPNF5/8X18-3A	280,72
UNF 3/4-16h.	APNF3/4X16	247,22	ANPNF3/4X16	247,22	APNF3/4X16-3A	321,41	ANPNF3/4X16-3A	321,41
UNF 7/8-14h.	APNF7/8X14	271,23	ANPNF7/8X14	271,23		-		-
UNF 1"-12h.	APNF1X12	309,97	ANPNF1X12	309,97		-		-
UNF 1"1/8-12h.	APNF1.1/8X12	360,63	ANPNF1.1/8X12	360,63		-		-
UNF 1"1/4-12h.	APNF1.1/4X12	396,40	ANPNF1.1/4X12	396,40		-		-
UNF 1"3/8-12h.	APNF1.3/8X12	435,15	ANPNF1.3/8X12	435,15		-		-
UNF 1"1/2-12h.	APNF1.1/2X12	464,95	ANPNF1.1/2X12	464,95		-		-

CALIBRI LISCI - TAMPONI

LISCIO

Ref. CTL PASSA / NON PASSA
Ref. CTLP PASSA
Ref. CTLNP NON PASSA

DIN 7162 | TOL H7 | X210 Cr12

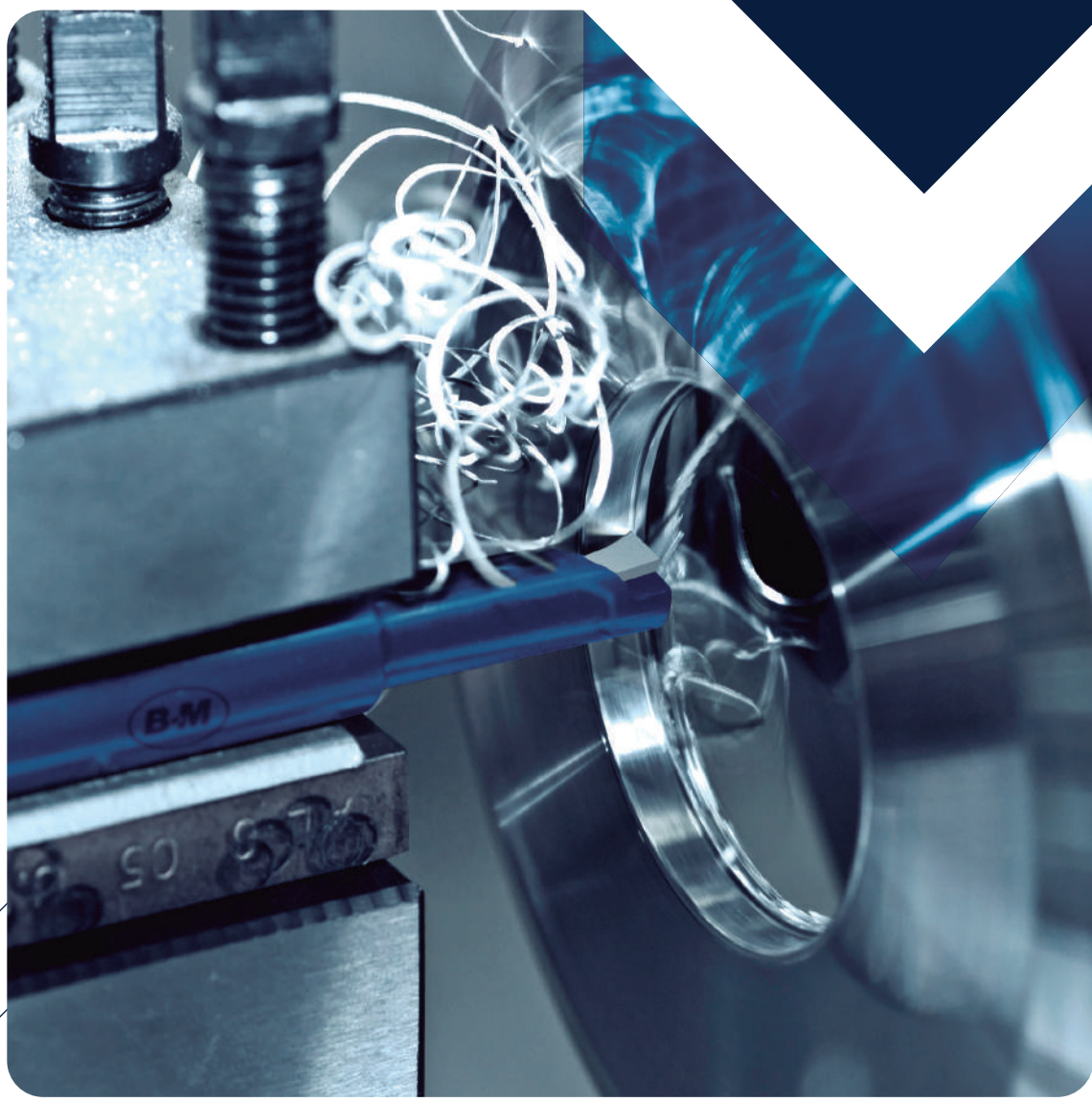
Ref. CTL



Cert. * Il certificato del calibro è incluso nel prezzo.

CTL			CTL			CTLP		CTLNP	
Ø mm	PASSA NON PASSA	€	Ø mm	PASSA NON PASSA	€	PASSA	€	NON PASSA	€
2	CTL0200	70,19	51	CTL5100	178,65	CTLP5100	-	CTLNP5100	-
3	CTL0300	63,81	52	CTL5200	178,65	CTLP5200	-	CTLNP5200	-
4	CTL0400	63,81	53	CTL5300	178,65	CTLP5300	-	CTLNP5300	-
5	CTL0500	63,81	54	CTL5400	178,65	CTLP5400	-	CTLNP5400	-
6	CTL0600	63,81	55	CTL5500	178,65	CTLP5500	-	CTLNP5500	-
7	CTL0700	57,42	56	CTL5600	178,65	CTLP5600	-	CTLNP5600	-
8	CTL0800	57,42	57	CTL5700	-	CTLP5700	117,87	CTLNP5700	117,87
9	CTL0900	57,42	58	CTL5800	-	CTLP5800	117,87	CTLNP5800	117,87
10	CTL1000	66,99	59	CTL5900	-	CTLP5900	117,87	CTLNP5900	117,87
11	CTL1100	66,99	60	CTL6000	-	CTLP6000	117,87	CTLNP6000	117,87
12	CTL1200	66,99	61	CTL6100	-	CTLP6100	117,87	CTLNP6100	117,87
13	CTL1300	66,99	62	CTL6200	-	CTLP6200	117,87	CTLNP6200	117,87
14	CTL1400	73,37	63	CTL6300	-	CTLP6300	148,10	CTLNP6300	148,10
15	CTL1500	73,37	64	CTL6400	-	CTLP6400	148,10	CTLNP6400	148,10
16	CTL1600	73,37	65	CTL6500	-	CTLP6500	148,10	CTLNP6500	148,10
17	CTL1700	73,37	66	CTL6600	-	CTLP6600	148,10	CTLNP6600	148,10
18	CTL1800	86,14	67	CTL6700	-	CTLP6700	148,10	CTLNP6700	148,10
19	CTL1900	86,14	68	CTL6800	-	CTLP6800	148,10	CTLNP6800	148,10
20	CTL2000	86,14	69	CTL6900	-	CTLP6900	148,10	CTLNP6900	148,10
21	CTL2100	86,14	70	CTL7000	-	CTLP7000	187,40	CTLNP7000	187,40
22	CTL2200	92,51	71	CTL7100	-	CTLP7100	187,40	CTLNP7100	187,40
23	CTL2300	92,51	72	CTL7200	-	CTLP7200	187,40	CTLNP7200	187,40
24	CTL2400	92,51	73	CTL7300	-	CTLP7300	187,40	CTLNP7300	187,40
25	CTL2500	92,51	74	CTL7400	-	CTLP7400	187,40	CTLNP7400	187,40
26	CTL2600	92,51	75	CTL7500	-	CTLP7500	187,40	CTLNP7500	187,40
27	CTL2700	102,09	76	CTL7600	-	CTLP7600	187,40	CTLNP7600	187,40
28	CTL2800	102,09	77	CTL7700	-	CTLP7700	229,70	CTLNP7700	229,70
29	CTL2900	102,09	78	CTL7800	-	CTLP7800	229,70	CTLNP7800	229,70
30	CTL3000	102,09	79	CTL7900	-	CTLP7900	229,70	CTLNP7900	229,70
31	CTL3100	102,09	80	CTL8000	-	CTLP8000	229,70	CTLNP8000	229,70
32	CTL3200	118,05	81	CTL8100	-	CTLP8100	229,70	CTLNP8100	229,70
33	CTL3300	118,05	82	CTL8200	-	CTLP8200	229,70	CTLNP8200	229,70
34	CTL3400	118,05	83	CTL8300	-	CTLP8300	229,70	CTLNP8300	229,70
35	CTL3500	118,05	84	CTL8400	-	CTLP8400	265,96	CTLNP8400	265,96
36	CTL3600	118,05	85	CTL8500	-	CTLP8500	265,96	CTLNP8500	265,96
37	CTL3700	118,05	86	CTL8600	-	CTLP8600	265,96	CTLNP8600	265,96
38	CTL3800	124,42	87	CTL8700	-	CTLP8700	265,96	CTLNP8700	265,96
39	CTL3900	124,42	88	CTL8800	-	CTLP8800	265,96	CTLNP8800	265,96
40	CTL4000	124,42	89	CTL8900	-	CTLP8900	265,96	CTLNP8900	265,96
41	CTL4100	124,42	90	CTL9000	-	CTLP9000	265,96	CTLNP9000	265,96
42	CTL4200	124,42	91	CTL9100	-	CTLP9100	265,96	CTLNP9100	265,96
43	CTL4300	143,56	92	CTL9200	-	CTLP9200	308,28	CTLNP9200	308,28
44	CTL4400	143,56	93	CTL9300	-	CTLP9300	308,28	CTLNP9300	308,28
45	CTL4500	143,56	94	CTL9400	-	CTLP9400	308,28	CTLNP9400	308,28
46	CTL4600	143,56	95	CTL9500	-	CTLP9500	308,28	CTLNP9500	308,28
47	CTL4700	143,56	96	CTL9600	-	CTLP9600	308,28	CTLNP9600	308,28
48	CTL4800	143,56	97	CTL9700	-	CTLP9700	308,28	CTLNP9700	308,28
49	CTL4900	178,65	98	CTL9800	-	CTLP9800	308,28	CTLNP9800	308,28
50	CTL5000	178,65	99	CTL9900	-	CTLP9900	308,28	CTLNP9900	308,28
			100	CTL10000	-	CTLP10000	323,40	CTLNP10000	323,40

BLUE-MASTER®
by celesa

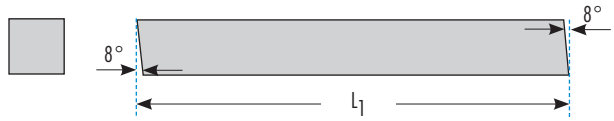


UTENSILI PER TORNIO

BARRETTE IN COBALTO PER TORNIO

Ref. CT1 | HSSCo 10% | DIN 4964 | FORMA B | TOL h14 | QUADRATE



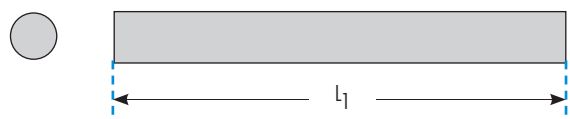


CT1

☐ x L1 mm	€	☐ x L1 mm	€	☐ x L1 mm	€	☐ x L1 mm	€	☐ x L1 mm	€
4 x 4 x 80	10,73	6 x 6 x 100	15,60	8 x 8 x 200	44,08	12 x 12 x 100	42,69	16 x 16 x 125	114,91
4 x 4 x 100	16,93	6 x 6 x 125	19,32	10 x 10 x 63	21,69	12 x 12 x 125	59,99	16 x 16 x 160	125,81
4 x 4 x 150	22,53	6 x 6 x 160	25,10	10 x 10 x 80	27,12	12 x 12 x 160	69,40	16 x 16 x 200	145,48
4 x 4 x 200	32,07	6 x 6 x 200	31,19	10 x 10 x 100	34,24	12 x 12 x 200	89,02	18 x 18 x 160	143,53
5 x 5 x 80	14,80	8 x 8 x 63	14,80	10 x 10 x 125	46,11	14 x 14 x 100	56,61	18 x 18 x 200	171,40
5 x 5 x 100	20,78	8 x 8 x 80	17,28	10 x 10 x 160	57,15	14 x 14 x 125	68,82	20 x 20 x 160	195,28
5 x 5 x 150	29,15	8 x 8 x 100	21,69	10 x 10 x 200	68,51	14 x 14 x 160	92,58	20 x 20 x 200	220,91
5 x 5 x 200	39,83	8 x 8 x 125	32,23	12 x 12 x 63	29,15	14 x 14 x 200	99,28	25 x 25 x 160	311,56
6 x 6 x 80	13,70	8 x 8 x 160	34,57	12 x 12 x 80	38,64	16 x 16 x 100	73,57	25 x 25 x 200	314,67

Ref. CT2 | HSSCo 10% | DIN 4964 | FORMA A | TOL h8 | ROTONDE





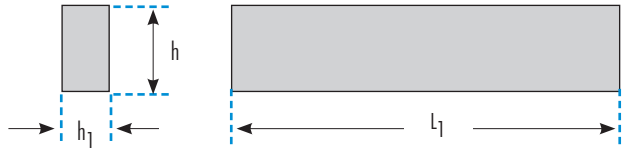
CT2

Ø x L1 mm	€	Ø x L1 mm	€	Ø x L1 mm	€	Ø x L1 mm	€	Ø x L1 mm	€
3 x 100	8,91	6 x 63	9,85	8 x 100	17,91	10 x 100	25,57	14 x 200	106,52
4 x 63	7,52	6 x 80	12,73	8 x 125	28,40	10 x 160	47,79	16 x 125	60,53
4 x 80	9,25	6 x 100	15,65	8 x 160	28,65	10 x 200	59,04	16 x 160	83,09
4 x 100	14,69	6 x 160	22,67	8 x 200	32,58	12 x 80	27,34	16 x 200	106,52
4 x 150	18,41	6 x 200	25,08	9 x 100	27,47	12 x 100	26,78	18 x 160	160,37
5 x 63	7,52	7 x 100	24,11	9 x 150	46,12	12 x 125	46,16	18 x 200	205,43
5 x 80	11,10	7 x 150	32,36	9 x 200	54,62	12 x 160	69,07	20 x 160	185,98
5 x 100	16,42	7 x 200	29,55	10 x 63	18,14	12 x 200	76,38	20 x 200	206,93
5 x 150	20,71	8 x 63	11,29	10 x 80	20,86	14 x 160	83,09	25 x 200	469,06
5 x 200	26,16	8 x 80	15,05						

BARRETTE IN COBALTO PER TORNIO

Ref. CT3 — HSSCo 10% — DIN 4964 — FORMA D — TOL h14 — RETTANGOLARI



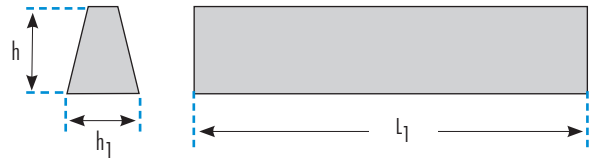


CT3

h x h1 x L1 mm	€	h x h1 x L1 mm	€	h x h1 x L1 mm	€	h x h1 x L1 mm	€	h x h1 x L1 mm	€
8 x 4 x 100	19,50	12 x 8 x 160	65,43	15 x 5 x 200	81,50	16 x 10 x 160	103,26	20 x 10 x 200	141,08
10 x 5 x 160	42,75	12 x 8 x 200	80,24	16 x 4 x 80	27,62	16 x 10 x 200	125,94	20 x 12 x 160	125,19
10 x 5 x 200	51,44	15 x 3 x 150	50,56	16 x 4 x 100	34,41	20 x 4 x 150	79,10	20 x 12 x 200	155,83
10 x 6 x 160	51,44	15 x 3 x 200	61,61	16 x 4 x 160	55,59	20 x 4 x 200	98,52	25 x 6 x 160	89,28
10 x 6 x 200	63,54	15 x 4 x 150	58,10	16 x 8 x 160	77,14	20 x 5 x 160	75,64	25 x 6 x 200	108,14
12 x 6 x 160	54,84	15 x 4 x 200	70,94	16 x 8 x 200	93,80	20 x 5 x 200	94,18	25 x 12 x 200	204,23
12 x 6 x 200	65,04	15 x 5 x 150	66,88	16 x 10 x 100	60,52	20 x 10 x 160	113,47		

Ref. CT4 — HSSCo 10% — DIN 4964 — FORMA E — TOL h12 — TRAPEZOIDALI



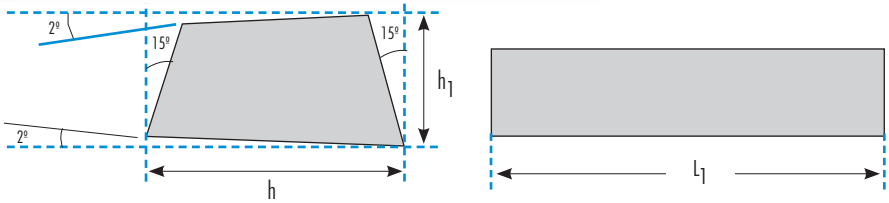


CT4

h x h1 x L1 mm	€	h x h1 x L1 mm	€
12 x 3,0 x 160	36,72	19 x 3,50 x 125	54,73
13 x 2,5 x 100	40,24	20 x 5,00 x 160	77,77
15 x 2,5 x 100	43,73	20 x 5,00 x 200	107,45
16 x 4,0 x 160	61,83	25 x 6,00 x 160	94,62

Ref. CT5 — HSSCo 10% — DIN 4964 — FORMA INDEX 1 — TOL h12 — BITRAPEZOIDALI



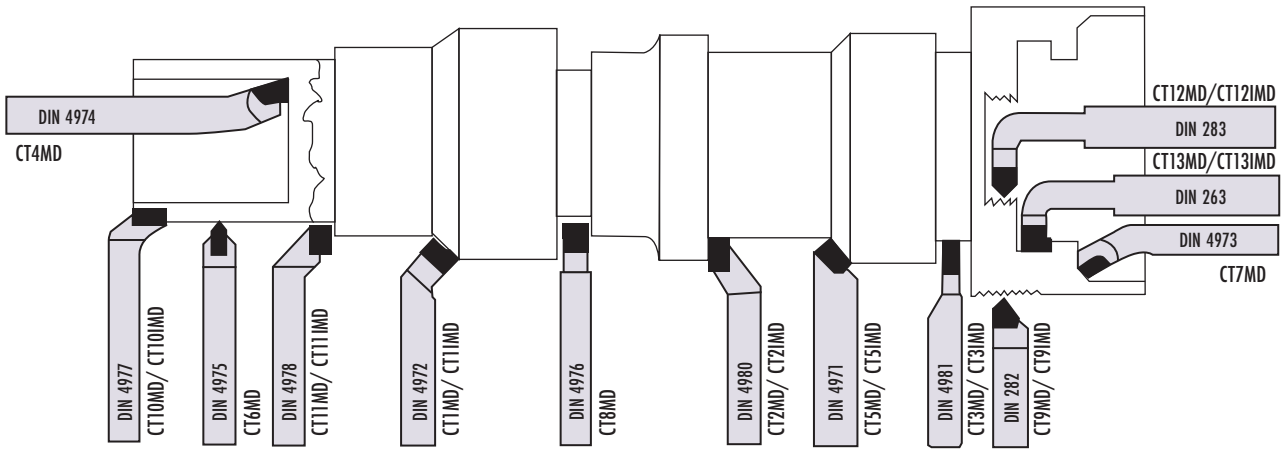


CT5

h x h1 x L1 mm	€
13 x 2,5 x 100	43,86
15 x 2,5 x 100	47,68
19 x 3,5 x 125	59,66

UTENSILI PER TORNIO

DIAGRAMMA DELLE OPERAZIONI



* Altre misure disponibili su richiesta.

APPLICAZIONI

P20	Qualità raccomandata per le lavorazioni al tornio di acciaio, acciaio fuso e ghisa malleabile a truciolo lungo. Alta resistenza all'usura.
K10	Qualità raccomandata per le lavorazioni al tornio di ghisa grigia, ghisa dura, acciaio temprato, ghisa malleabile a truciolo corto, leghe di alluminio e silicio, bronzo e ottone.

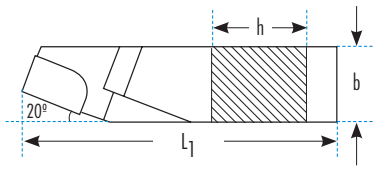
QUALITÀ

P20	K10
	

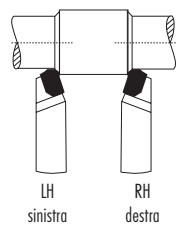
Ref. CT5MD
Ref. CT5IMD

DIN 4971 | **P-20** | **K-10** | **ISO 1**

UTENSILI DRITTI PER TORNITURA







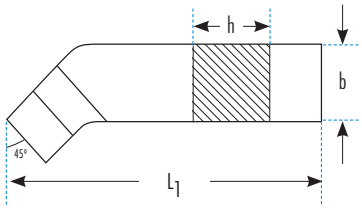
P20		K10			
DESTRA	SINISTRA	DESTRA	SINISTRA	h x b x L1 mm	€
CT5MD10x10x90P	CT5IMD10x10x90P	CT5MD10x10x90K	CT5IMD10x10x90K	10 x 10 x 90	**11,04**
CT5MD12x12x100P	CT5IMD12x12x100P	CT5MD12x12x100K	CT5IMD12x12x100K	12 x 12 x 100	**11,87**
CT5MD16x16x110P	CT5IMD16x16x110P	CT5MD16x16x110K	CT5IMD16x16x110K	16 x 16 x 110	**14,92**
CT5MD20x20x125P	CT5IMD20x20x125P	CT5MD20x20x125K	CT5IMD20x20x125K	20 x 20 x 125	**20,36**
CT5MD25x25x140P	CT5IMD25x25x140P	CT5MD25x25x140K	CT5IMD25x25x140K	25 x 25 x 140	**30,12**

UTENSILI PER TORNIO

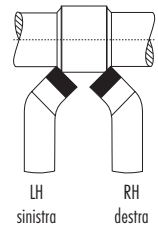
Ref. CT1MD
Ref. CT1IMD

DIN 4972 | **P-20** | **K-10** | **ISO 2**

UTENSILI PER TORNITURA 45º





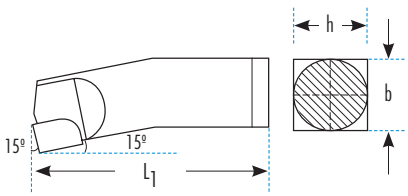


P20		K10			
DESTRA	SINISTRA	DESTRA	SINISTRA	h x b x L1 mm	€
CT1MD12x12x100P	CT1IMD12x12x100P	CT1MD12x12x100K	CT1IMD12x12x100K	12 x 12 x 100	13,16
CT1MD16x16x110P	CT1IMD16x16x110P	CT1MD16x16x110K	CT1IMD16x16x110K	16 x 16 x 110	16,40
CT1MD20x20x125P	CT1IMD20x20x125P	CT1MD20x20x125K	CT1IMD20x20x125K	20 x 20 x 125	20,87
CT1MD25x25x140P	CT1IMD25x25x140P	CT1MD25x25x140K	CT1IMD25x25x140K	25 x 25 x 140	29,50

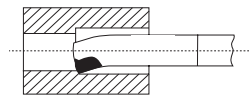
Ref. CT7MD

DIN 4973 | **P-20** | **K-10** | **ISO 8**

UTENSILI DRITTI PER ALESATURA





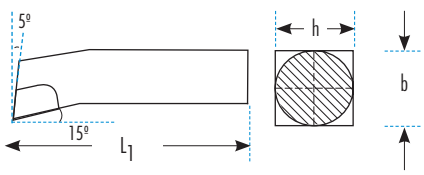


P20	K10		
DESTRA	DESTRA	h x b x L1 mm	€
CT7MD8x8x125P	CT7MD8x8x125K	8 x 8 x 125	15,78
CT7MD10x10x125P	CT7MD10x10x125K	10 x 10 x 125	15,49
CT7MD12x12x180P	CT7MD12x12x180K	12 x 12 x 180	16,72
CT7MD16x16x210P	CT7MD16x16x210K	16 x 16 x 210	18,76
CT7MD20x20x250P	CT7MD20x20x250K	20 x 20 x 250	24,37
CT7MD25x25x300P	CT7MD25x25x300K	25 x 25 x 300	38,38

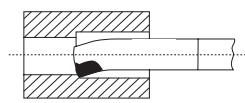
Ref. CT4MD

DIN 4974 | **P-20** | **K-10** | **ISO 9**

UTENSILI PER TORNITURA INTERNA







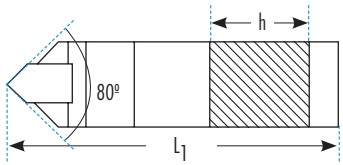
P20	K10		
DESTRA	DESTRA	h x b x L1 mm	€
CT4MD8x8x125P	CT4MD8x8x125K	8 x 8 x 125	16,26
CT4MD10x10x150P	CT4MD10x10x150K	10 x 10 x 150	16,06
CT4MD12x12x180P	CT4MD12x12x180K	12 x 12 x 180	17,03
CT4MD16x16x210P	CT4MD16x16x210K	16 x 16 x 210	20,28
CT4MD20x20x250P	CT4MD20x20x250K	20 x 20 x 250	25,63
CT4MD25x25x300P	CT4MD25x25x300K	25 x 25 x 300	38,93
CT4MD32x32x355P	CT4MD32x32x355K	32 x 32 x 355	68,53

UTENSILI PER TORNIO

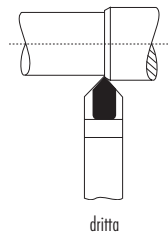
Ref. CT6MD

DIN 4975 | P-20 | K-10 | ISO 10

UTENSILI DRITTI PER TORNITURA





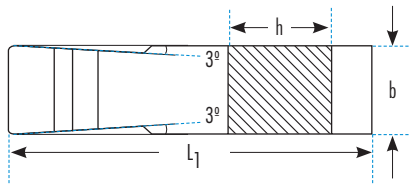


P20	K10		
DRITTA	DRITTA	h x b x L1 mm	€
CT6MD16x10x110P	CT6MD16x10x110K	16 x 10 x 110	12,16
CT6MD20x12x125P	CT6MD20x12x125K	20 x 12 x 125	14,08
CT6MD25x16x140P	CT6MD25x16x140K	25 x 16 x 140	17,94
CT6MD32x20x170P	CT6MD32x20x170K	32 x 20 x 170	40,32

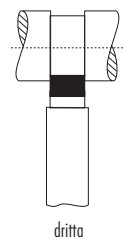
Ref. CT8MD

DIN 4976 | P-20 | K-10 | ISO 4

UTENSILI DRITTI PER SCANALATURA LARGA





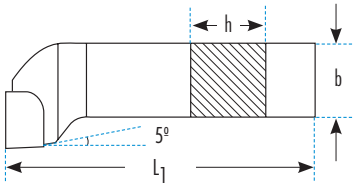


P20	K10		
DRITTA	DRITTA	h x b x L1 mm	€
CT8MD16x10x110P	CT8MD16x10x110K	16 x 10 x 110	14,60
CT8MD20x12x125P	CT8MD20x12x125K	20 x 12 x 125	16,02
CT8MD25x16x140P	CT8MD25x16x140K	25 x 16 x 140	22,58
CT8MD32x20x170P	CT8MD32x20x170K	32 x 20 x 170	33,30

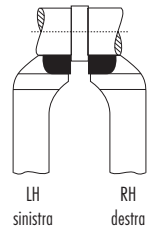
Ref. CT10MD
Ref. CT10IMD

DIN 4977 | P-20 | K-10 | ISO 5

UTENSILI A GOMITO PER TORNITURA ATTACCO FRONTALE







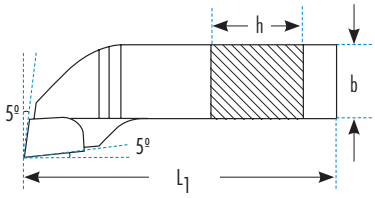
P20		K10			
DESTRA	SINISTRA	DESTRA	SINISTRA	h x b x L1 mm	€
CT10MD10x10x90P	CT10IMD10x10x90P	CT10MD10x10x90K	CT10IMD10x10x90K	10 x 10 x 90	12,31
CT10MD12x12x100P	CT10IMD12x12x100P	CT10MD12x12x100K	CT10IMD12x12x100K	12 x 12 x 100	14,10
CT10MD16x16x110P	CT10IMD16x16x110P	CT10MD16x16x110K	CT10IMD16x16x110K	16 x 16 x 110	15,49
CT10MD20x20x125P	CT10IMD20x20x125P	CT10MD20x20x125K	CT10IMD20x20x125K	20 x 20 x 125	19,87
CT10MD25x25x140P	CT10IMD25x25x140P	CT10MD25x25x140K	CT10IMD25x25x140K	25 x 25 x 140	30,58

UTENSILI PER TORNIO

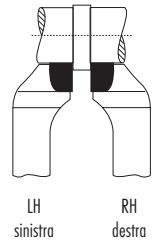
Ref. CT11MD
Ref. CT11IMD

DIN 4978 | **P-20** | **K-10** | **ISO 3**

UTENSILI A GOMITO PER TORNITURA ATTACCO LATERALE





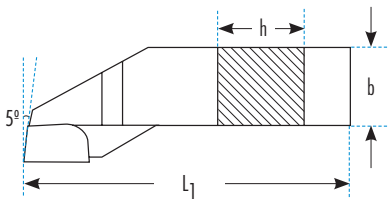


P20		K10			
DESTRA	SINISTRA	DESTRA	SINISTRA	h x b x L1 mm	€
CT11MD10x10x90P	CT11IMD10x10x90P	CT11MD10x10x90K	CT11IMD10x10x90K	10 x 10 x 90	13,50
CT11MD12x12x100P	CT11IMD12x12x100P	CT11MD12x12x100K	CT11IMD12x12x100K	12 x 12 x 100	15,89
CT11MD16x16x110P	CT11IMD16x16x110P	CT11MD16x16x110K	CT11IMD16x16x110K	16 x 16 x 110	17,68
CT11MD20x20x125P	CT11IMD20x20x125P	CT11MD20x20x125K	CT11IMD20x20x125K	20 x 20 x 125	26,21
CT11MD25x25x140P	CT11IMD25x25x140P	CT11MD25x25x140K	CT11IMD25x25x140K	25 x 25 x 140	43,30

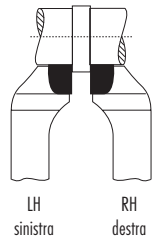
Ref. CT2MD
Ref. CT2IMD

DIN 4980 | **P-20** | **K-10** | **ISO 6**

UTENSILI PER TORNITURA 90º





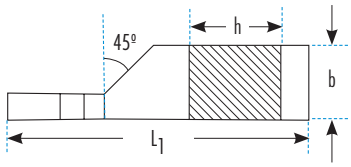


P20		K10			
DESTRA	SINISTRA	DESTRA	SINISTRA	h x b x L1 mm	€
CT2MD10x10x90P	CT2IMD10x10x90P	CT2MD10x10x90K	CT2IMD10x10x90K	10 x 10 x 90	11,94
CT2MD12x12x100P	CT2IMD12x12x100P	CT2MD12x12x100K	CT2IMD12x12x100K	12 x 12 x 100	13,24
CT2MD16x16x110P	CT2IMD16x16x110P	CT2MD16x16x110K	CT2IMD16x16x110K	16 x 16 x 110	16,06
CT2MD20x20x125P	CT2IMD20x20x125P	CT2MD20x20x125K	CT2IMD20x20x125K	20 x 20 x 125	21,37
CT2MD25x25x140P	CT2IMD25x25x140P	CT2MD25x25x140K	CT2IMD25x25x140K	25 x 25 x 140	31,10

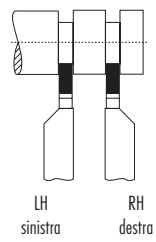
Ref. CT3MD
Ref. CT3IMD

DIN 4981 | **P-20** | **K-10** | **ISO 7**

UTENSILI PER TRONCATURA







P20		K10			
DESTRA	SINISTRA	DESTRA	SINISTRA	h x b x L1 mm	€
CT3MD12x08x100P	CT3IMD12x08x100P	CT3MD12x08x100K	CT3IMD12x08x100K	12 x 8 x 100 x 3	12,35
CT3MD16x10x110P	CT3IMD16x10x110P	CT3MD16x10x110K	CT3IMD16x10x110K	16 x 10 x 110 x 4	13,50
CT3MD20x12x125P	CT3IMD20x12x125P	CT3MD20x12x125K	CT3IMD20x12x125K	20 x 12 x 125 x 5	15,60
CT3MD25x16x140P	CT3IMD25x16x140P	CT3MD25x16x140K	CT3IMD25x16x140K	25 x 16 x 140 x 6	20,70

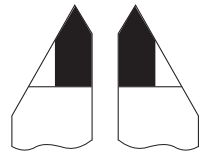
UTENSILI PER TORNIO

Ref. CT9MD
Ref. CT9IMD

DIN 282 | P-20 | K-10 | ISO 12

UTENSILI PER FILETTATURA ESTERNA





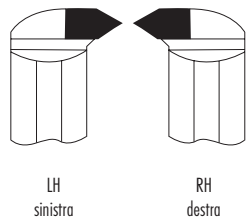
P20		K10			
DESTRA	SINISTRA	DESTRA	SINISTRA	h x b x L1 mm	€
CT9MD16x10x120P	CT9IMD16x10x120P	CT9MD16x10x120K	CT9IMD16x10x120K	16 x 10 x 120	15,48
CT9MD20x12x140P	CT9IMD20x12x140P	CT9MD20x12x140K	CT9IMD20x12x140K	20 x 12 x 140	18,13
CT9MD25x16x160P	CT9IMD25x16x160P	CT9MD25x16x160K	CT9IMD25x16x160K	25 x 16 x 160	23,62

Ref. CT12MD
Ref. CT12IMD

DIN 283 | P-20 | K-10 | ISO 13

UTENSILI PER FILETTATURA INTERNA





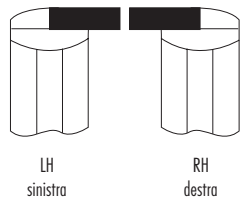
P20		K10			
DESTRA	SINISTRA	DESTRA	SINISTRA	h x b x L1 mm	€
CT12MD10x10x140P	CT12IMD10x10x140P	CT12MD10x10x140K	CT12IMD10x10x140K	10 x 10 x 140	25,31
CT12MD12x12x160P	CT12IMD12x12x160P	CT12MD12x12x160K	CT12IMD12x12x160K	12 x 12 x 160	25,75
CT12MD16x16x180P	CT12IMD16x16x180P	CT12MD16x16x180K	CT12IMD16x16x180K	16 x 16 x 180	33,84
CT12MD20x20x210P	CT12IMD20x20x210P	CT12MD20x20x210K	CT12IMD20x20x210K	20 x 20 x 210	40,19
CT12MD25x25x250P	CT12IMD25x25x250P	CT12MD25x25x250K	CT12IMD25x25x250K	25 x 25 x 250	56,98

Ref. CT13MD
Ref. CT13IMD

DIN 263 | P-20 | K-10 | ISO 11

UTENSILI PER SCANALATURA INTERNA





P20		K10			
DESTRA	SINISTRA	DESTRA	SINISTRA	h x b x L1 mm	€
CT13MD12x12x160P	CT13IMD12x12x160P	CT13MD12x12x160K	CT13IMD12x12x160K	12 x 12 x 160	26,54
CT13MD16x16x180P	CT13IMD16x16x180P	CT13MD16x16x180K	CT13IMD16x16x180K	16 x 16 x 180	33,17
CT13MD20x20x210P	CT13IMD20x20x210P	CT13MD20x20x210K	CT13IMD20x20x210K	20 x 20 x 210	41,89
CT13MD25x25x250P	CT13IMD25x25x250P	CT13MD25x25x250K	CT13IMD25x25x250K	25 x 25 x 250	52,62

BLUE-MASTER®
by celesa



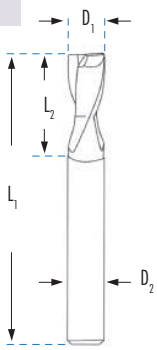
FRESE

FRESE FRONTALI SERIE CORTA A 2 TAGLIENTI DIN 327 E DIN 844

2 Z | 30° N | WELDON | 34 HRc | INOX | Al | TOL D_2 h6

Ref. FFAL | 45° W

SERIE CORTA







Consultare dimensioni DIN844 nelle pagine successive

DIN 327				FF01	FF02	FF60	FT02	FF92	FP05	FT12	FP08	FT01	DIN 844	FFAL
MATERIALE				HSS	HSSCo 8%	HSSCo 8%	HSSCo 8%	HSSCo 8%	ASP 60	ASP 60	ASP 60	ASP 60		HSSCo 8%
FINITURA				BRILLANTE	BRILLANTE	TiAlN	TiAlSiN	BRILLANTE	BRILLANTE	TiAlSiN	BRILLANTE	TiAlSiN		BRILLANTE
QUALITÀ				★	★★	★★★	★★★★	★★	Premium Quality	Premium Quality	Premium Quality	Premium Quality		Al
D_1 mm	L_1 mm	L_2 mm	D_2 mm	TOL e8 €	TOL e8 €	TOL e8 €	TOL e8 €	TOL h10 €	TOL e8 €	TOL e8 €	TOL h10 €	TOL h10 €		TOL e8 €
1,00	47	2,5	6						24,80	30,01	36,16	43,15		
2,00	48	4,0	6	11,27	13,53	19,86	22,88	21,21	20,92	26,69	31,92	39,24		17,28
2,50	49	5,0	6		13,53	19,86	22,88	22,26						17,62
3,00	49	5,0	6	11,27	13,53	19,86	22,88	21,34	20,92	26,69	31,92	39,24		17,23
3,50	50	6,0	6		14,40	20,89	27,33	22,26						18,28
4,00	51	7,0	6	11,06	13,53	19,87	27,32	21,34	19,02	26,63	31,92	39,24		17,75
4,50	52	8,0	6	11,06*	14,55	22,06	30,31	22,26						19,41
5,00	52	8,0	6	11,06	13,53	19,87	27,32	21,34	19,02	26,63	31,92	39,24		17,75
5,50	52	8,0	6		14,39	22,63	31,09	22,26						21,73
6,00	52	8,0	6	11,06	13,53	19,87	27,32	21,34	19,02	26,63	31,92	39,24		19,24
6,50	60	10,0	10	16,50*	19,26	29,60	37,10							28,42
7,00	60	10,0	10	16,50	18,68	28,98	38,14	27,03	28,70	37,02	42,23	55,85		25,85
7,50	61	11,0	10		19,36	30,79	37,89							30,30
8,00	61	11,0	10	13,42	17,50	27,40	33,71	27,04	28,70	37,02	42,23	55,85		23,39
8,50	61	11,0	10		19,40	34,27	42,14							31,94
9,00	61	11,0	10	17,15	17,94	32,38	39,83	26,99	30,68	39,97	42,23	57,54		28,96
9,50	63	13,0	10		19,19	33,52	41,22							
10,00	63	13,0	10	14,11	17,38	28,34	34,87	27,12	27,77	37,53	42,23	57,54		25,29
10,50	70	13,0	12		26,32	41,60	51,17							
11,00	70	13,0	12		25,86	38,62	47,50	35,38						34,90
12,00	73	16,0	12	18,43	23,26	35,35	43,49	35,36	35,43	47,48	57,51	73,11		31,71
13,00	73	16,0	12		30,54	46,42	58,56	39,97						45,20
14,00	73	16,0	12	26,23	30,54	46,42	58,56	39,97	43,19	55,79	64,99	80,90		43,73
15,00	73	16,0	12		36,08	49,88	66,36	44,66						48,72
16,00	79	19,0	16	27,40	33,60	49,49	60,89	45,95	54,06	67,38	75,98	94,40		47,47
17,00	79	19,0	16		43,57	63,18	77,74							66,03
18,00	79	19,0	16	35,87	43,57	63,25	77,82	56,64	68,45	80,76	96,32	145,50		59,30
19,00	79	19,0	16		56,99	76,61	94,24							79,97
20,00	88	22,0	16		61,01	85,04	104,64							
20,00	88	22,0	20	42,05	52,87	73,70	90,69	65,19	80,65	101,50	112,29	148,61		68,54
22,00	88	22,0	20	57,68	66,27	97,68	120,16	73,41	102,71	135,60	133,34	170,66		95,43
24,00	102	26,0	25	72,38	77,24	121,27	149,20	98,05						143,38
25,00	102	26,0	25	72,39	75,25	113,97	143,07	97,23	137,14	163,38	174,81*	215,97*		121,44
26,00	102	26,0	25		86,02	158,79	195,34							190,72
28,00	102	26,0	25	90,70	102,94	159,21	195,43							147,77
30,00	102	26,0	25	104,35	104,42	167,06	205,52	156,50						170,05
32,00	112	32,0	32	108,21	132,40	170,12	209,30							180,13
36,00	112	32,0	32	139,32	177,11	218,54	268,86							
40,00	130	38,0	32	169,38	217,48	270,20	332,42							

*Fino ad esaurimento scorte

FRESE FRONTALI SERIE LUNGA A 2 TAGLIENTI DIN 327 E DIN 844/L

2 Z | 30° N | WELDON | 34 HRc | INOX | Al | TOL D_2 h6

Ref. FFLAL | 45° W

SERIE LUNGA







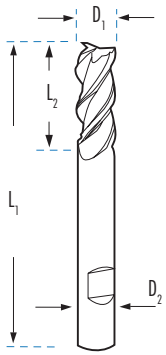
				FF06	FF67	FT06	FF15	FP21				FFLAL
DIN 327/L				HSSCo 8%	HSSCo 8%	HSSCo 8%	HSSCo 8%	ASP 60	DIN 844/L			HSSCo 8%
			MATERIALE									
			FINITURA	BRILLANTE	TiAlN	TiAlSiN	BRILLANTE	BRILLANTE				BRILLANTE
			QUALITÀ	★★	★★★	★★★★	★★	Premium Quality				Al
				TOL e8	TOL e8	TOL e8	TOL h10	TOL h10				TOL e8
D_1 mm	L_1 mm	L_2 mm	D_2 mm	€	€	€	€	€	L_1 mm	L_2 mm	D_2 mm	€
2,00	54	7	6	15,74*	24,84*	28,94*	31,96	37,49*	54	10	6	26,03
2,50	56	8	6	15,74*	24,84*	28,94*	32,00		56	12	6	
3,00	56	8	6	15,96	24,89	29,03	32,00	38,65*	56	12	6	26,16
3,50	59	10	6	17,87	29,56	34,50			59	15	6	
4,00	63	11	6	15,81	24,89	29,03	32,00	38,65	63	19	6	26,33
4,50	63	11	6	17,62	25,42	29,64			63	19	6	
5,00	68	13	6	15,81	24,89	29,03	33,88	40,90*	68	24	6	26,45
5,50	68	13	6	17,87	29,56	34,50			68	24	6	
6,00	68	13	6	15,81	24,89	29,03	30,61	36,95*	68	24	6	27,46
6,50	80	16	10	29,65	48,52	55,79			68	24	6	
7,00	80	16	10	26,10	36,44	42,50	38,62	46,17*	80	30	10	
7,50	88	19	10						80	30	10	
8,00	88	19	10	22,97	33,28	38,82	38,62	46,60*	88	38	10	37,52
8,50	88	19	10	35,16	47,85	55,80			88	38	10	
9,00	88	19	10	30,91	42,16	49,12	42,36		88	38	10	39,57
10,00	95	22	10	25,30	38,54	44,94	42,19	51,15*	95	45	10	37,52
11,00	102	22	12	39,90	53,81	62,76	56,18		102	45	12	52,58*
12,00	110	26	12	36,39	50,90	59,36	55,10	66,21*	110	53	12	44,46
13,00	110	26	12						110	53	12	
14,00	110	26	12	44,57	62,21	72,55	73,10	82,98	110	53	12	50,89
15,00	123	32	16						110	53	12	
16,00	123	32	16	53,92	76,78	89,54	83,21	99,03	123	63	16	62,75
17,00	123	32	16						123	63	16	
18,00	123	32	16	62,82	90,12	105,06	100,00	118,99	123	63	16	72,95
20,00	141	38	20	72,23	98,85	115,27	108,42	129,01	141	75	20	84,22
22,00	141	38	20	99,03	134,15	156,42	134,39	159,94	141	75	20	
24,00	166	45	25	128,56	170,65	196,21	180,79		166	90	25	
25,00	166	45	25	130,61	180,50	210,49	165,29	196,70	166	90	25	
26,00	166	45	25	169,24	200,96	231,06			166	90	25	
28,00	166	45	25	172,15	219,75	256,27			166	90	25	
30,00	166	45	25	191,38	236,56	275,85	246,22		166	90	25	
32,00	186	53	32	264,76	308,38	359,59	320,82		186	106	32	
36,00	186	53	32	299,54	350,63	408,87			186	106	32	
40,00	196	63	32	392,52	473,72	552,43			196	125	32	

FRESE FRONTALI SERIE CORTA A 3 TAGLIENTI DIN 844 E DIN 327

3 Z | 30° N | WELDON | 34 HRc | INOX | Al | TOL D_2 h6



SERIE CORTA



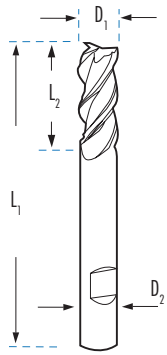


DIN 844		FF63	FF75	FT63	FF73	FF76	FT73	FP06	FT03
	MATERIALE	HSSCo 8%	HSSCo 8%	HSSCo 8%	HSSCo 8%	HSSCo 8%	HSSCo 8%	ASP 60	ASP 60
	FINITURA	BRILLANTE	TiAlN	TiAlSiN	BRILLANTE	TiAlN	TiAlSiN	BRILLANTE	TiAlSiN
	QUALITÀ	★★	★★★	★★★★	★★	★★★	★★★★	Premium Quality	Premium Quality
	SGROSSATURA				NR	NR	NR		
		TOL k10	TOL k10	TOL k10	TOL k12	TOL k12	TOL k12	TOL e8	TOL e8
D_1 mm	L_1 mm	L_2 mm	D_2 mm	€	€	€	€	€		€	€
1,00	49	3	6							26,66	33,20
2,00	51	7	6	15,70	24,70	28,80				21,65	32,44
2,50	52	8	6	15,70	24,70	28,80					
3,00	52	8	6	15,70	24,70	28,80				21,65	32,44
3,50	55	11	6	16,17	25,17	29,49					
4,00	55	11	6	15,69	24,70	28,80				21,65	32,44
4,50	57	13	6	17,28	26,10	30,44					
5,00	57	13	6	15,69	24,81	28,94				21,65	32,44
5,50	57	13	6	21,34	33,96	39,59					
6,00	57	13	6	14,55	27,08	30,82	44,79	54,08	62,18	21,65	32,44
6,50	66	16	10	29,62	45,42	52,23					
7,00	66	16	10	23,08	33,35	39,07	52,96*	64,55	74,22	29,16	39,53
7,50	69	19	10	29,84*	45,90*	52,78*					
8,00	69	19	10	20,61	30,78	35,90	45,88	53,45	62,34	29,16	39,53
8,50	69	19	10	31,46	47,40	54,50					
9,00	69	19	10	25,74	36,92	43,05	54,45*	63,92*			
9,50	72	22	10		49,81*	57,27*					
10,00	72	22	10	20,96	33,40	38,96	46,14	56,82	66,24	30,91	40,88
11,00	79	22	12	29,17	46,33	60,65	66,64*	76,75*			
12,00	83	26	12	27,37	39,88	46,51	55,55	65,40	76,25	39,87	51,70
13,00	83	26	12	35,84	53,30	70,53		84,52*			
14,00	83	26	12	33,68	52,31	61,01	63,39	74,58	86,98	51,67	62,96
15,00	83	26	12	44,11	63,64	73,18	80,23	87,83	96,80		
16,00	92	32	16	40,15	58,38	68,08	81,49	92,67	108,10	60,76	72,48
17,00	92	32	16	51,32	71,59	103,62					
18,00	92	32	16	46,44	71,28	83,12	84,07	102,02	118,97	74,77	88,65
19,00	92	31	16	59,61	83,32	119,24					
20,00	104	38	20	56,20	80,35	93,70	102,59	120,00	139,93	88,92	106,12
22,00	104	38	20	76,63	121,30	139,48				118,70*	151,83*
25,00	121	45	25	95,41	126,09	184,68	155,38	177,56	207,06	149,01*	171,20*
28,00	121	45	25	109,47	167,84	206,49					
30,00	121	45	25	114,47	177,42	242,53	193,22	227,98	265,88		
32,00	133	53	32	171,33	227,65	261,75					

FRESE FRONTALI SERIE LUNGA A 3 TAGLIENTI DIN 844/L

3 Z | 30° N | WELDON | 34 HRc | INOX | Al | TOL D_1 k10 | TOL D_2 h6

SERIE LUNGA





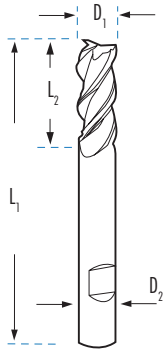
DIN 844/L				FF83	FF86	FT83
			MATERIALE	HSSCo 8%	HSSCo 8%	HSSCo 8%
			FINITURA	BRILLANTE	TiAlN	TiAlSiN
			QUALITÀ	★★	★★★	★★★★
D_1 mm	L_1 mm	L_2 mm	D_2 mm	€	€	€
1,00	52	7	6			
2,00	54	10	6	21,70	30,97	36,11
2,50	56	12	6			
3,00	56	12	6	21,15	30,88	36,00
3,50	59	15	6	23,67	33,10	38,62
4,00	63	19	6	21,15	30,88	36,00
4,50	63	19	6	23,67	33,10	38,62
5,00	68	24	6	21,15	30,88	36,00
5,50	68	24	6	23,11	33,10	38,62
6,00	68	24	6	23,15	32,29	37,66
6,50	68	24	6			
7,00	80	30	10	32,10	43,23	50,41
7,50	80	30	10			
8,00	88	38	10	29,36	39,00	45,46
8,50	88	38	10			
9,00	88	38	10	32,53	46,26	53,96
9,50	88	38	10			
10,00	95	45	10	29,53	42,88	50,01
11,00	102	45	12	43,02*	58,41*	68,11*
12,00	110	53	12	37,59	52,28	60,98
13,00	110	53	12			
14,00	110	53	12	47,78	63,93	74,56
15,00	110	53	12			
16,00	123	63	16	55,14	77,05	89,87
17,00	123	63	16			
18,00	123	63	16	65,86	91,09	106,23
19,00	123	63	16			
20,00	141	75	20	77,32	104,22	121,52
22,00	141	75	20	98,90	134,39	156,72
25,00	166	90	25	144,15	177,53	207,04
28,00	166	90	25	160,48	212,60	247,94
30,00	166	90	25	178,67	227,10	264,84
32,00	186	106	32	212,59	255,76	298,27

FRESE FRONTALI SERIE CORTA E LUNGA MULTITAGLIENTI DIN 844 E DIN 844/L

4-6 Z | 30° N | WELDON | 34 HRc | INOX | Al | TOL D_1 k10 | TOL D_2 h6



SERIE CORTA





SERIE LUNGA



DIN 844					FF18	FF20	FT18	FP07	FT09
				MATERIALE	HSSCo 8%	HSSCo 8%	HSSCo 8%	ASP 60	ASP 60
				FINITURA	BRILLANTE	TiAlN	TiAlSiN	BRILLANTE	TiAlSiN
				QUALITÀ	★★	★★★	★★★★	Premium Quality	Premium Quality
D_1 mm	L_1 mm	L_2 mm	D_2 mm	Z	€	€	€	€	€
1,00	49	3	6	4				29,56	35,09
2,00	51	7	6	4	15,75	22,78	26,97	21,60	29,60
2,50	52	8	6	4	15,75	22,78	26,97		
3,00	52	8	6	4	15,75	22,78	26,41	21,60	29,60
3,50	55	11	6	4	16,21	23,20	28,04		
4,00	55	11	6	4	15,75	22,78	25,85	21,60	29,60
4,50	57	13	6	4	16,39	24,04	29,04		
5,00	57	13	6	4	15,75	22,78	25,85	21,60	29,60
5,50	57	13	6	4	17,17	31,23	37,71		
6,00	57	13	6	4	16,43	22,76	26,38	21,60	29,60
6,50	66	16	10	4	25,12	35,35	39,25		
7,00	66	16	10	4	22,76	33,36	37,04	29,36	42,26
7,50	69	16	10	4	29,74	39,72	44,12		
8,00	69	19	10	4	20,32	30,91	34,33	29,23	41,83
8,50	69	19	10	4	31,01	42,00	48,98		
9,00	69	19	10	4	22,60	36,96	43,11	34,53	45,62
9,50	69	19	10	4	32,81	43,69	50,94		
10,00	72	22	10	4	22,21	33,55	39,14	31,03	42,88
11,00	79	22	12	4	30,90	43,66	50,92		
12,00	83	26	12	4	28,04	38,78	45,23	41,00	56,77
13,00	83	26	12	4	37,13	53,94	62,90		
14,00	83	26	12	4	35,03	49,89	61,38	50,95	60,48
15,00	83	26	12	4	42,63	58,81	68,59		
16,00	92	32	16	4	41,60	57,83	68,40	59,71	71,62
17,00	92	32	16	4	50,12	70,25	81,91		
18,00	92	32	16	4	51,24	70,34	83,20	72,82	89,58
19,00	92	31	16	4	60,67	80,74	94,15		
20,00	104	38	20	4	60,67	80,74	94,15	85,64	116,38
22,00	104	38	20	4	69,46	111,92	130,52	112,86	137,25
24,00	121	45	25	5	86,83	121,25	153,80		
25,00	121	45	25	5	86,32	128,15	153,08	145,60	180,99
26,00	121	45	25	5	108,34*	148,62	188,51*		
28,00	121	45	25	5	119,11	159,69	192,61		
30,00	121	45	25	6	138,47	177,25	217,00		
32,00	133	53	32	6	141,97	181,33	222,00		
36,00	133	53	32	6	215,01	260,35	318,69		
40,00	155	63	32	6	258,47*	316,61	387,57*		

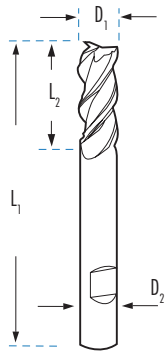
DIN 844/L					FF21	FF23	FT21	FP20
				MATERIALE	HSSCo 8%	HSSCo 8%	HSSCo 8%	ASP 60
				FINITURA	BRILLANTE	TiAlN	TiAlSiN	BRILLANTE
				QUALITÀ	★★	★★★	★★★★	Premium Quality
L_1 mm	L_2 mm	D_2 mm	Z	€	€	€	€
52	7	6	4				
54	10	6	4	19,12	28,12	32,79	30,68
56	12	6	4	19,12	28,12	32,95	
56	12	6	4	18,03	26,42	30,93	30,68
59	15	6	4	25,26	34,11	39,76	
63	19	6	4	18,03	28,14	32,80	30,68
63	19	6	4	25,26	34,11	39,76	
68	24	6	4	18,03	26,42	30,93	30,68
68	24	6	4	25,10	34,11	39,76	
68	24	6	4	19,21	28,14	32,80	30,68
68	24	6	4				
80	30	10	4	29,16	39,14	45,65	45,78
80	30	10	4				
88	38	10	4	26,49	35,25	41,10	45,78
88	38	10	4				
88	38	10	4	30,18	41,09	47,93	45,78*
88	38	10	4				
95	45	10	4	26,60	38,92	45,39	45,78
102	45	12	4	37,79	51,27	59,81	
110	53	12	4	34,81	48,70	56,82	66,38
110	53	12	4				
110	53	12	4	45,55	59,38	69,25	76,63
110	53	12	4				
123	63	16	4	49,80	69,87	81,48	94,95
123	63	16	4				
123	63	16	4	60,83	83,18	96,99	121,49
123	63	16	4				
141	75	20	4	71,25	96,06	112,03	148,98
141	75	20	5	98,79	126,61	147,67	167,11*
141	75	25	5				
166	90	25	5	121,68	161,71	188,56	242,75
166	90	25	5				
166	90	25	5	146,50	192,37	224,32	
166	90	25	6	165,35	211,33	246,45	
186	106	32	6	166,71	212,82	248,18	
186	106	32	6	238,95	286,90	334,54	
217	125	32	6	264,85	342,05	400,78	

*Fino ad esaurimento scorte

FRESE FRONTALI DI SGROSSATURA MULTITAGLIENTI DIN 844 E DIN 844/L

4-6 Z | 30° N | WELDON | 34 HRc | INOX | Al | TOL D_1 k12 | TOL D_2 h6

SERIE CORTA





DIN 844					FF25	FF27	FT25
				MATERIALE	HSSCo 8%	HSSCo 8%	HSSCo 8%
				FINITURA	BRILLANTE	TiAlN	TiAlSiN
				QUALITÀ	★★	★★★	★★★★
				SGROSSATURA	NR	NR	NR
D_1 mm	L_1 mm	L_2 mm	D_2 mm	Z	€	€	€
6,00	57	13	6	4	35,58	41,51	56,73
7,00	66	16	10	4	38,12	55,04	67,71
8,00	69	19	10	4	37,15	46,56	60,29
9,00	69	19	10	4	43,68	57,73	71,02
10,00	72	22	10	4	37,14	47,57	59,71
11,00	79	22	12	4	42,32	69,53	85,55
12,00	83	26	12	4	36,81	59,17	72,79
13,00	83	26	12	4	48,85	69,05	98,79
14,00	83	26	12	4	44,38	68,64	84,44
15,00	83	26	12	4	55,44	82,14	108,68
16,00	92	32	16	4	47,37	80,88	99,51
17,00	92	32	16	4	84,28	106,91	131,53
18,00	92	32	16	4	67,29	89,11	109,63
19,00	92	31	16	4	98,90	123,92	152,46
20,00	104	38	20	4	84,33	101,23	133,91
SENZA TAGLIO AL CENTRO					FF05	FF74	FT05
22,00	104	38	20	6	107,17	131,97	
24,00	121	45	25	6	134,99	156,49	183,36
25,00	121	45	25	6	133,72	155,58	182,30
26,00	121	45	25	6	154,86	190,38	223,06
28,00	121	45	25	6	168,93	207,13	242,68
30,00	121	45	25	6	181,47	226,70	265,63
32,00	133	53	32	6	205,59	243,84	285,69
36,00	133	53	32	6	243,66	280,98	329,23
40,00	155	63	32	6	273,93	325,36	381,24

SERIE LUNGA



DIN 844/L					FF29	FF31	FT29
				MATERIALE	HSSCo 8%	HSSCo 8%	HSSCo 8%
				FINITURA	BRILLANTE	TiAlN	TiAlSiN
				QUALITÀ	★★	★★★	★★★★
				SGROSSATURA	NR	NR	NR
L_1 mm	L_2 mm	D_2 mm	Z	€	€	€
68	24	6	4	38,44	55,37	75,70
80	30	10	4	52,11 *	69,97*	86,07*
88	38	10	4	46,48	64,74	79,65
88	38	10	4	57,32	70,95	87,27
95	45	10	4	45,85	60,30	74,19
102	45	12	4	74,34	91,47	112,54
110	53	12	4	54,22	72,88	89,68
110	53	12	4			
110	53	12	4	59,16	82,34	101,33
110	53	12	4			
123	63	16	4	70,89	99,90	122,93
123	63	16	4			
123	63	16	4	79,75	115,66	143,75
123	63	16	4			
141	75	20	4	91,50	123,97	169,46
				FF08	FF58	FT08
141	75	20	6	124,51	176,79	207,14
141	75	25	6			
166	90	25	6	157,26	209,44	245,40
166	90	25	6			
166	90	25	6	177,32	240,78	282,12
166	90	25	6	229,92	287,61	337,01
186	106	32	6	240,46	294,04	344,53
186	106	32	6	288,75	351,12	411,41
217	125	32	6	341,39	437,04	512,10

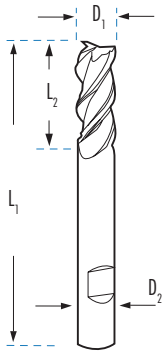
*Fino ad esaurimento scorte

FRESE FRONTALI, SENZA TAGLIO AL CENTRO, MULTITAGLIENTI DIN 844 E DIN 844/L

4-6 Z | 30° N | WELDON | 34 HRc | INOX | Al | TOL D_1 k10 | TOL D_2 h6



SERIE CORTA





SERIE LUNGA



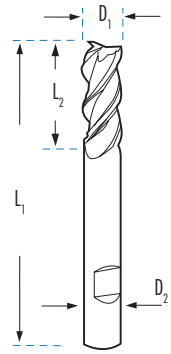
DIN 844					FF03 HSS ★	FF04 HSSCo 8% ★★	FF54 HSSCo 8% TiAlN ★★★	FT04 HSSCo 8% TiAlSiN ★★★★	DIN 844/L				FF07 HSSCo 8% ★★	FF57 HSSCo 8% TiAlN ★★★	FT07 HSSCo 8% TiAlSiN ★★★★
D_1 mm	L_1 mm	L_2 mm	D_2 mm	Z	€	€	€	€	L_1 mm	L_2 mm	D_2 mm	Z	€	€	€
2,00	51	7	6	4	11,28	14,79	23,80	27,77	54	10	6	4	18,50	28,62	33,53
2,50	52	8	6	4	11,28	14,79*	23,80*	27,77*	56	12	6	4	18,50	28,62	33,53
3,00	52	8	6	4	11,28	14,79	23,80	27,77	56	12	6	4	18,50	28,62	33,53
3,50	55	11	6	4	11,65	15,25*	24,34*	28,36*	59	15	6	4	24,33	35,72	41,86
4,00	55	11	6	4	11,28	14,79	23,80	27,77	63	19	6	4	18,50	29,76	34,88
4,50	57	13	6	4	11,65		24,34		63	19	6	4	24,33	35,72	41,86
5,00	57	13	6	4	11,28	14,79	23,80	27,77	68	24	6	4	18,50	29,76	34,88
5,50	57	13	6	4	17,53	23,00*	31,99*	37,30*	68	24	6	4	24,33	35,72	41,86
6,00	57	13	6	4	11,28	14,79	23,80	27,77	68	24	6	4	18,50	29,76	34,88
6,50	66	16	10	4	17,53*	23,00*	33,10*	38,62*	68	24	6	4			
7,00	66	16	10	4	16,55	21,72	31,90	37,19	80	30	10	4	27,99	41,07	48,14
7,50	69	16	10	4	20,74	27,18*	37,08	43,24*	80	30	10	4			
8,00	69	19	10	4	12,88	16,69	27,04	31,54	88	38	10	4	25,69	38,71	45,34
8,50	69	19	10	4	21,61				88	38	10	4			
9,00	69	19	10	4	17,31	22,68	33,88	39,51	88	38	10	4	29,06	43,32	50,77
9,50	72	22	10	4	23,46	29,99*	41,25	48,09*	88	38	10	4			
10,00	72	22	10	4	15,71	20,58	31,92	37,21	95	45	10	4	25,98	41,19	48,28
11,00	79	22	12	4	21,64	28,40	41,18	48,02	102	45	12	4	34,95	51,98	60,92
12,00	83	26	12	4	18,66	24,56	37,03	43,19	110	53	12	4	32,46	49,44	57,93
13,00	83	26	12	4	27,83	36,65	50,46	58,83	110	53	12	4			
14,00	83	26	12	4	26,32	34,44	48,54	56,59	110	53	12	4	42,43	59,99	70,28
15,00	83	26	12	4	30,04	39,33	55,91	65,18	110	53	12	4			
16,00	92	32	16	4	29,29	38,37	54,98	64,11	123	63	16	4	46,36	70,91	83,09
17,00	92	32	16	4	36,10	47,50	65,74	76,65	123	63	16	4			
18,00	92	32	16	4	36,04	47,29	65,74	76,65	123	63	16	4	56,63	84,26	98,71
19,00	92	31	16	4	42,68	55,64	75,42	87,97	123	63	16	4			
20,00	104	38	20	4	42,68	55,64	75,42	87,97	141	75	20	4	66,32	96,69	113,30
22,00	104	38	20	4	58,65	77,22	104,41	121,74	141	75	20	5	91,99	127,09	148,92
24,00	121	45	25	5	72,84	95,96	122,72	143,12	141	75	25	5			
25,00	121	45	25	5	72,84	95,96	122,72	143,12	166	90	25	5	122,01	162,72	190,65
26,00	121	45	25	5	91,07	119,96*	155,14*	180,90*	166	90	25	5			
28,00	121	45	25	5	91,50	120,53	159,33	185,79	166	90	25	5	149,14	200,38	234,79
30,00	121	45	25	6	105,57	138,28	177,66	207,20	166	90	25	6	170,68	222,14	260,27
32,00	133	53	32	6	108,57	141,85	181,80	212,00	186	106	32	6	170,41	223,72	262,11
36,00	133	53	32	6	142,08	187,13	227,64	265,45	186	106	32	6	243,05	307,38	360,16
40,00	143	63	32	6	170,34	224,93	279,34	325,76	217	125	32	6	270,17	413,11	484,05

*Fino ad esaurimento scorte

FRESE FRONTALI DI SGROSSATURA MULTITAGLIENTI DIN 844 E DIN 844/L

3-5 Z | 30° N | WELDON | 34 HRc | INOX | Al | TOL D_1 k12 | TOL D_2 h6

SERIE CORTA





SERIE LUNGA



DIN 844	FP10	FT10	FP11	FT11
MATERIALE	ASP 60	ASP 60	ASP 60	ASP 60
FINITURA	BRILLANTE	TiAlSiN	BRILLANTE	TiAlSiN
SGROSSATURA	NF	NF	NR	NR
QUALITÀ	Premium Quality	Premium Quality	Premium Quality	Premium Quality

D_1 mm	L_1 mm	L_2 mm	D_2 mm	Z	€	€	€	€
2,00	51	7	6	3				
2,50	52	8	6	3				
3,00	52	8	6	3				
3,50	55	11	6	3				
4,00	55	11	6	3				
4,50	57	13	6	3				
5,00	57	13	6	3				
5,50	57	13	6	3				
6,00	57	13	6	3	50,47	57,92	46,78	53,78
6,50	66	16	10	3				
7,00	66	16	10	3	64,72	70,47	58,72 *	66,83 *
7,50	69	19	10	3				
8,00	69	19	10	3	55,74	64,91	51,11	59,04
8,50	69	19	10	3				
9,00	69	19	10	3	67,14	73,52	61,08 *	69,87 *
9,50	72	22	10	3				
10,00	72	22	10	4	53,15	63,00	48,18	59,83
11,00	79	22	12	4				
12,00	83	26	12	4	69,92	79,19	63,74	72,95
13,00	83	26	12	4				
14,00	83	26	12	4	84,91	96,53	76,98	87,54
15,00	83	26	12	4				
16,00	92	32	16	4	104,07	114,76	94,90	106,92
17,00	92	32	16	4				
18,00	92	32	16	4	114,28	124,79	102,97	116,95
19,00	92	31	16	4				
20,00	104	38	20	4	141,75	156,28	128,14	146,61
22,00	104	38	20	5	174,75	192,54	158,48	180,11
24,00	121	45	25	5				
25,00	121	45	25	5	207,16	230,17	187,91	213,19
26,00	121	45	25	5				
28,00	121	45	25	5				
30,00	121	45	25	5				
32,00	133	53	32	5				
36,00	133	53	32	5				
40,00	155	63	32	5				

DIN 844/L	FP15	FT15	FP13	FT13
MATERIALE	ASP 60	ASP 60	ASP 60	ASP 60
FINITURA	BRILLANTE	TiAlSiN	BRILLANTE	TiAlSiN
SGROSSATURA	NF	NF	NR	NR
QUALITÀ	Premium Quality	Premium Quality	Premium Quality	Premium Quality

L_1 mm	L_2 mm	D_2 mm	Z	€	€	€	€
54	10	6	3				
56	12	6	3				
56	12	6	3				
59	15	6	3				
63	19	6	3				
63	19	6	3				
68	24	6	3				
68	24	6	3				
68	24	6	3	79,20	83,69	70,25	81,13
68	24	6	3				
80	30	10	3	89,53	101,93	81,32	94,95
80	30	10	3				
88	38	10	3	83,30	88,66	73,74	84,58*
88	38	10	3				
88	38	10	3	87,87*	100,56	81,32	95,56
88	38	10	3				
95	45	10	4	74,95	83,36	66,79	76,97
102	45	12	4				
110	53	12	4	94,99	103,76	83,88	94,98
110	53	12	4				
110	53	12	4	111,33	127,74	100,12	113,06
110	53	12	4				
123	63	16	4	133,17	146,28	118,83	134,97
123	63	16	4				
123	63	16	4	148,96	173,45	135,70*	154,63*
123	63	16	4				
141	75	20	4	193,61	212,40	171,55	197,49
141	75	20	5	295,83	316,13	259,04	296,43
141	75	25	5				
166	90	25	5	297,06	326,15	262,04	303,94
166	90	25	5				
166	90	25	5				
166	90	25	5				
186	106	32	5				
186	106	32	5				
217	125	32	5				

FRESE SERIE SUPER CORTA E EXTRA CORTA A 3 TAGLIENTI

3 Z |  |  30° N |  WELDON |  34 HRc | INOX | Al | TOL D_1 e8 | TOL D_2 h6

SERIE SUPER CORTA

FF51 — HSSCo 8% — BRILLANTE

D_1 mm	L_1 mm	L_2 mm	D_2 mm	Z	MATERIALE FINITURA €
1,00	34	2	6	3	13,62
1,50	34	3	6	3	13,62
2,00	35	4	6	3	13,60
2,50	36	5	6	3	13,60
3,00	36	5	6	3	13,60
3,50	37	6	6	3	13,60
4,00	38	7	6	3	13,60
4,50	38	7	6	3	13,60
5,00	39	8	6	3	13,60
5,50	39	8	6	3	13,60
6,00	39	8	6	3	13,60
6,50	42	10	8	3	18,71
7,00	42	10	8	3	18,71
7,50	42	10	8	3	18,71
8,00	43	11	8	3	18,71
8,50	48	11	10	3	21,41
9,00	48	11	10	3	21,41
9,50	48	11	10	3	21,41
10,00	50	13	10	3	21,41



SERIE EXTRA CORTA

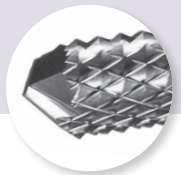
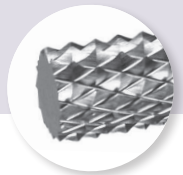
FF53 — HSSCo 8% — BRILLANTE

D_1 mm	L_1 mm	L_2 mm	D_2 mm	Z	MATERIALE FINITURA €
2,00	38	7	6	3	14,48
2,50	39	8	6	3	14,48
3,00	39	8	6	3	14,48
3,50	41	10	6	3	14,48
4,00	42	11	6	3	14,48
4,50	42	11	6	3	14,48
5,00	44	13	6	3	14,48
5,50	44	13	6	3	14,48
6,00	44	13	6	3	14,48
6,50	48	16	8	3	20,34
7,00	48	16	8	3	20,34
8,00	51	19	8	3	20,34
8,50	56	19	10	3	23,24
9,00	56	19	10	3	23,24
10,00	59	22	10	3	23,24



FRESE IN METALLO DURO PER MATERIALI COMPOSTI: FIBRA DI CARBONIO, PANNELLO FENOLICO, ECC...

MD PHENOLIC


GIRI E AVANZAMENTO

D_1 mm	RPM rev./min	AVANZ. mm/min
1.50	60.000	3.000
2.00	50.000	2.500
3.00	32.000	1.600
5.00	20.000	1.200
6.00	16.000	1.000
6.35	14.000	1.000
8.00	9.000	700
10.00	7.000	550
12.00	6.000	450








					RFC		RFCTL		RF		RFTL		RFF		RFFTL
D_1 mm	L_1 mm	L_2 mm	D_2 mm		€	TiAlN	€		€	TiAlN	€		€	TiAlN	€
1,50	38	5	3,00	RFC0150	18,47	RFC0150TL	27,89	RF0150	17,50	RF0150TL	26,94	RFF0150		RFF0150TL	
2,00	38	10	3,00	RFC0200	18,47	RFC0200TL	27,89	RF0200	17,50	RF0200TL	26,94	RFF0200		RFF0200TL	
3,00	38	12	3,00	RFC0300	18,47	RFC0300TL	27,89	RF0300	17,50	RF0300TL	26,94	RFF0300	18,47	RFF0300TL	27,89
5,00	50	16	5,00	RFC0500	36,63	RFC0500TL	46,07	RF0500	33,27	RF0500TL	42,70	RFF0500	36,63	RFF0500TL	46,07
6,00	63	25	6,00	RFC0600	40,94	RFC0600TL	51,73	RF0600	37,12	RF0600TL	47,92	RFF0600	40,94	RFF0600TL	51,73
6,35	75	30	6,35	RFC0635	48,36	RFC0635TL	59,87	RF0635	44,27	RF0635TL	55,78	RFF0635	48,36	RFF0635TL	59,87
8,00	63	25	8,00	RFC0800	61,65	RFC0800TL	70,88	RF0800	55,96	RF0800TL	65,19	RFF0800	61,65	RFF0800TL	70,88
10,00	63	25	10,00	RFC1000	69,11	RFC1000TL	77,66	RF1000	62,84	RF1000TL	71,38	RFF1000	69,11	RFF1000TL	77,66
12,00	75	25	12,00	RFC1200	81,09	RFC1200TL	90,97	RF1200	73,73	RF1200TL	83,60	RFF1200	81,09	RFF1200TL	90,97

NEW

MD PHENOLIC

· Geometria multitaglio adatta alla lavorazione di materiali compositi, per evitare la delaminazione della fibra di carbonio e di vetro. Valido per la trasformazione del Pannello Fenolico.

GIRI E AVANZAMENTO

D_1 mm	RPM rev./min	AVANZ. mm/min
3,00	15.000	2.250
4,00	12.000	1.800
5,00	10.000	1.800
6,00	8.500	1.700
8,00	6.500	1.950
10,00	5.500	1.650
12,00	4.500	1.550

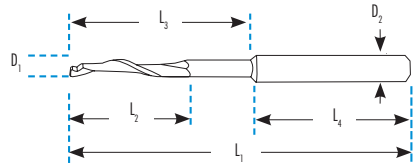





					FC11		FC12		FC13		FC14
D_1 mm	L_1 mm	L_2 mm	D_2 mm	Destra	€	Recta	€	Sinistra	€	Palla	€
3,00	45	10	3,00	FC1133	34,95	FC1233	34,95	FC1333	34,95	FC1433	36,47
3,00	60	10	6,00	FC1136	39,89	FC1236	39,89	FC1336	39,89	FC1436	39,89
4,00	60	15	4,00	FC1144	45,59	FC1244	45,59	FC1344	45,59	FC1444	49,01
4,00	60	15	6,00	FC1146	72,18	FC1246	72,18	FC1346	45,59	FC1446	73,70
5,00	60	15	5,00	FC1155	61,16	FC1255	61,16	FC1355	61,16	FC1455	61,16
6,00	70	25	6,00	FC1166	74,46	FC1266	74,46	FC1366	74,46	FC1466	70,28
8,00	80	30	8,00	FC1188	113,97	FC1288	113,97	FC1388	113,97	FC1488	122,32
10,00	80	35	10,00	FC111010	170,95	FC121010	170,95	FC131010	170,95	FC141010	170,95
12,00	90	40	12,00	FC111212	227,55	FC121212	227,55	FC131212	227,55	FC141212	235,53

FRESE A 1 DENTE HSSCo

HSSCo | Al | PVC | TOL D_1 k12 | TOL D_2 h6



SERIE CORTA



FF13

	D_1 mm	L_1 mm	L_2 mm	D_2 mm	HSSCo €	TiN €
FF1381	1,0	60	10	8	43,46	61,20
FF1382	2,0	60	10	8	43,46	61,20
FF1383	3,0	60	10	8	16,86	24,61
FF1384	4,0	60	12	8	16,86	24,61
FF1385	5,0	60	13	8	16,86	24,61
FF1386	6,0	60	14	8	17,47	25,50
FF1387	7,0	60	14	8	18,21	25,62
FF1388	8,0	80	14	8	18,21	25,62
FF131010	10,0	80	15	10	22,84	29,98
FF131212	12,0	80	35	12	58,70	73,37
FF131414	14,0	100	40	12	70,79	88,49
FF131616	16,0	100	40	16	75,61	94,51
FF132020	20,0	100	40	20	85,71	107,14
FF1361	1,0	45	6	6	30,32	40,22
FF13615	1,5	45	6	6	30,32	40,22
FF1362	2,0	45	6	6	30,32	40,22
FF1363	3,0	60	12	6	16,86	23,58
FF1364	4,0	60	12	6	16,86	23,58
FF1365	5,0	60	12	6	16,86	23,58
FF1366	6,0	60	14	6	16,86	23,58

ALLUMINIO LACCATO



FF50

	D_1 mm	L_1 mm	L_2 mm	L_3 mm	D_2 mm	HSSCo €	TiN €
FF5084	4	80	16	35	8	23,58	32,16
FF5085	5	80	18	35	8	23,58	32,16

SERIE LUNGA



FF14

	D_1 mm	L_1 mm	L_2 mm	L_3 mm	D_2 mm	HSSCo €	TiN €
FF1483	3	80	16	45	8	29,03	36,84
FF1484	4	80	16	45	8	24,95	32,71
FF1485	5	80	16	45	8	24,95	32,71
FF1486	6	90	16	45	8	24,95	32,71
FF1487	7	90	20	50	8	32,00	40,34
FF1488	8	100	30	70	8	28,93	37,19
FF1465	5	80	14	45	6	24,71	32,71
FF1466	6	80	14	45	6	24,71	32,71

SERIE EXTRA LUNGA

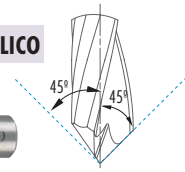


FF14-E

	D_1 mm	L_1 mm	L_2 mm	L_3 mm	D_2 mm	L_4 mm	HSSCo €	TiN €
FF1485-E	5	100	30	55	8	45	24,89	31,81
FF1485-EL	5	100	50	-	8	50	28,97	41,14

FRESA 1 TAGLIENTE CON PUNTA PER TRAPANO-PROFILO METALLICO





FF14

	D_1 mm	L_1 mm	L_3 mm	D_2 mm	HSSCo €	TiN €
FF14848040	4	80	40	8	61,22	70,40
FF148411040	4	110	40	8	81,49	93,72
FF14858040	5	80	40	8	59,92	68,91
FF148511040	5	110	40	8	83,18	95,66
FF14868040	6	80	40	8	50,29	57,84
FF148611040	6	110	40	8	83,18	95,66

MISURE SPECIALI



FF14 Speciali

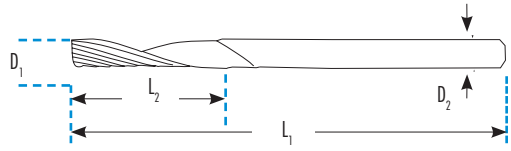
	D_1 mm	L_1 mm	L_2 mm	L_3 mm	D_2 mm	HSSCo €
FF148412020	4	120	20	-	8	26,55
FF14856018	5	60	18	-	8	21,90
FF14859025	5	90	25	-	8	28,55
FF148510025	5	100	25	-	8	26,54
FF148512014	5	120	14	-	8	26,54
FF14851001817	5	100	18	35	8	26,98
FF14851201461	5	120	14	75	8	36,33
FF14851201817	5	120	18	35	8	36,33
FF1486801421	6	80	14	35	8	30,11
FF14861001835	6	100	18	35	8	30,11
FF14861201461	6	120	14	75	8	43,54

FF14 Speciali

	D_1 mm	L_1 mm	L_2 mm	L_3 mm	D_2 mm	HSSCo €
FF14861003045	6	100	30	45	8	36,51
FF14861006040	6	100	60	-	8	46,87
FF14888025	8	80	25	-	8	23,71
FF148810014	8	100	14	-	8	26,22
FF148812014	8	120	14	-	8	28,46
FF14881201476	8	120	14	90	8	34,34
FF14898014	9	80	14	-	8	27,50
FF148108014	10	80	14	-	8	29,28
FF1410101003040	10	100	30	70	10	35,74
FF1410101201481	10	120	14	95	10	38,05
FF14101012014	10	120	14	-	10	30,66
FF148128014	12	80	14	-	8	33,20

FRESE A 1 DENTE IN METALLO DURO

MD | Al | PVC | TOL h10 | TOL D_2 h6



ELICA A - SERIE CORTA



Elica A	D_1 mm	L_1 mm	L_2 mm	D_2 mm	FMGA13 MD €
FMGA13305	0,5	39	1,5	3	54,01
FMGA1331	1,0	39	3,0	3	36,86
FMGA13315	1,5	39	4,0	3	33,16
FMGA1322	2,0	40	10,0	2	27,93
FMGA13325	2,5	40	12,0	3	31,40
FMGA1333	3,0	40	12,0	3	25,32
FMGA1336	3,0	64	12,0	6	43,47
FMGA1338	3,0	64	12,0	8	59,97
FMGA1344	4,0	50	16,0	4	27,85
FMGA1346	4,0	64	16,0	6	43,91
FMGA1348	4,0	64	16,0	8	69,78
FMGA135550	5,0	50	16,0	5	28,89
FMGA1355	5,0	64	16,0	5	31,66
FMGA1356	5,0	64	16,0	6	49,43
FMGA1358	5,0	64	16,0	8	71,36
FMGA136650	6,0	50	16,0	6	38,86
FMGA1366	6,0	64	20,0	6	42,80
FMGA1368	6,0	64	20,0	8	72,46
FMGA1378	7,0	64	20,0	8	81,23
FMGA138816	8,0	66	16,0	8	44,06
FMGA1388	8,0	76	38,0	8	58,43
FMGA13101015	10,0	76	15,0	10	68,68
FMGA131010	10,0	76	30,0	10	73,24

ELICA A - SERIE LUNGA



Elica A	D_1 mm	L_1 mm	L_2 mm	D_2 mm	FMGA13E MD €
FMGA133312E	3	70	12	3	30,75
FMGA133322E	3	70	22	3	32,05
FMGA133332E	3	70	32	3	34,11
FMGA134415E	4	70	15	4	39,99
FMGA134425E	4	70	25	4	42,36
FMGA134435E	4	70	35	4	45,25
FMGA135517E	5	80	17	5	49,36
FMGA1355E	5	80	38	5	52,16
FMGA136620E	6	85	20	6	55,36
FMGA1366E	6	85	40	6	57,61
FMGA138825E	8	90	25	8	71,25
FMGA1388E	8	90	38	8	74,03
FMGA1388EX	8	110	43	8	83,15
FMGA131010E	10	100	40	10	106,15
FMGA131010EL	10	120	60	10	154,59

ELICA A - CON COLLO



Elica A	D_1 mm	L_1 mm	L_2 mm	D_2 mm		FMGA13 MD €
FMGA13488016	4	8	80	16	29	69,95
FMGA13588016	5	8	80	16	29	69,95
FMGA13689016	6	8	90	16	29	69,95

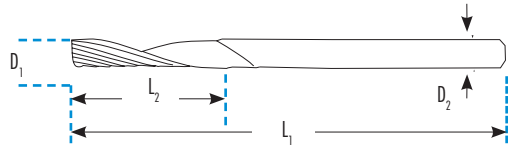
VELOCITÀ DI TAGLIO

	HSSCo		MD	
D_1 mm	Aluminio (R.P.M.)	PVC (R.P.M.)	Aluminio (R.P.M.)	PVC (R.P.M.)
3,00	12000	12000	19000	19000
4,00	11000	11000	18000	18000
5,00	10000	10000	18000	18000
6,00	10000	10000	17000	17000
7,00	9000	9000	17000	17000
8,00	9000	9000	16000	16000
9,00	9000	9000	16000	16000
10,00	9000	9000	16000	16000

NOTA: Per la serie lunga conviene ridurre le RPM del 15%.

FRESE A 1 DENTE IN METALLO DURO

MD | Al | PVC | TOL h10 | TOL D_2 h6



ELICA B



B	D1 mm	L1 mm	L2 mm	D2 mm	FMGA13HI MD €
FMGA1333HI	3	50	8	3	33,94
FMGA1344HI	4	64	12	4	33,95
FMGA1355HI	5	64	16	5	36,75
FMGA1366HI	6	64	20	6	55,49
FMGA1388HI	8	76	38	8	73,43
FMGA131010HI	10	76	35	10	85,03

CANALE DRITTO

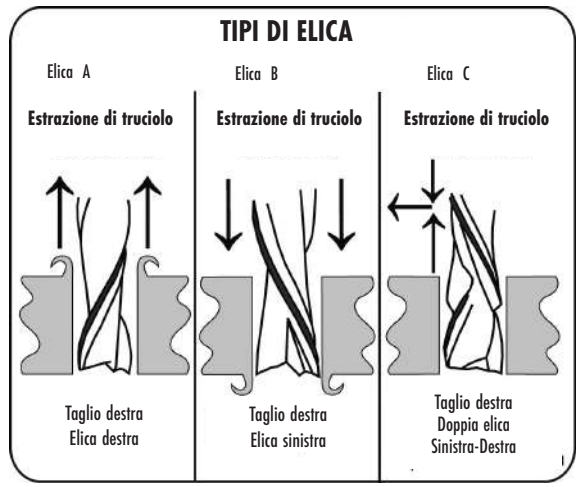


R	D1 mm	L1 mm	L2 mm	D2 mm	FMGA13R MD €
FMGA1346R	4	64	16	6	46,05
FMGA1356R	5	64	20	6	46,05
FMGA1366R	6	64	25	6	53,61
FMGA1388R	8	64	25	8	79,30
FMGA131010R	10	88	35	10	103,78
FMGA131212R	12	88	35	12	149,79

ELICA C



C	D1 mm	L1 mm	L2 mm	D2 mm	FMGA13CO MD €
FMGA1366CO	6	64	25	6	124,52
FMGA1388CO	8	64	25	8	172,18
FMGA131010CO	10	76	35	10	202,37
FMGA131212CO	12	76	35	12	268,49



FRESA IN METALLO DURO PER LA RIPARAZIONE DELLE FORATURA NEGLI PNEUMATICI

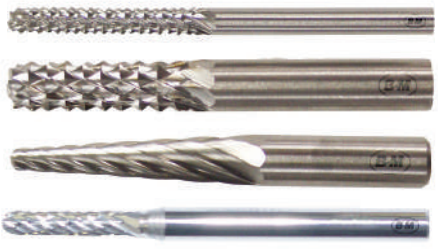
MD





	D_1 mm	L_1 mm	L_2 mm	D_2 mm	RN €
RN0300	3,00	50	25	3	17,97
RN0600	6,00	80	50	6	43,34
RN0800	8,00	110	50	8	48,82
RN1000	10,00	110	60	10	76,61

FRESE IN METALLO DURO, ACCESSORI ROTOZIP



Ref.: RR0317

Ref.: RR0635

Ref.: RR0435

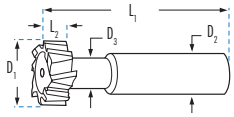
Ref.: RR0247

		D_1 mm	L_1 mm	L_2 mm	D_2 mm	RR €
RR0317	Taglio piastrelle	3,17	50	25	3,17	20,72*
RR0635	Taglio piastrelle	6,35	50	25	6,35	34,70*
RR0435	Lavorazione intonaco	6,35	52	32	6,35	43,44*
RR0247	Malta	2,47	38	14	3,17	15,22*

*Fino ad esaurimento scorte

FRESE PER SCANALARE

Ref. FF17 — SCANALARE A "T" — DIN 851A



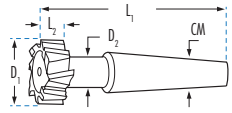


TOL D_1 d11 — TOL D_2 h6

FF17

$D_1 \times L_2$ mm	D_2 mm	D_3 mm	Z	L_1 mm	HSSCo €	TiAlN €
11,0x4,0	10	4	4	53,5	81,54	100,66
12,5x6,0	10	5	6	57,0	82,79	103,99
16,0x8,0	10	7	6	62,0	86,59	110,39
18,0x8,0	12	8	8	70,0	90,33	116,88
21,0x9,0	12	10	8	74,0	96,99	136,88
25,0x11,0	16	12	8	82,0	112,90	153,75
32,0x14,0	16	15	10	90,0	148,82	207,38
40,0x18,0	25	19	10	108,0	239,34	333,56
50,0x22,0	32	25	10	124,0	334,15	438,22
60,0x28,0	32	30	10	139,0	349,32	458,13
72,0x35,0	32	35	10	153,0	364,49	478,05

Ref. FF17C — SCANALARE A "T" — DIN 851B





TOL D_2 h12

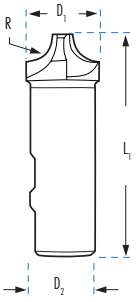
FF17C

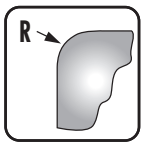
$D_1 \times L_2$ mm	CM	FILETTO	D_2 mm	L_1 mm	HSSCo €	TiAlN €
18,0x8,0	1	M6	8	70	98,87	122,61
21,0x9,0	2	M10	10	74	105,85	131,25
25,0x11,0	2	M10	12	82	113,84	141,15
32,0x14,0	2	M10	16	90	157,87	195,76
40,0x18,0	3	M12	20	108	230,29	285,57
50,0x22,0	4	M16	25	124	354,87	440,02
60,0x28,0	4	M16	31	139	469,53	582,22
72,0x35,0	5	M20	36	153	637,32	790,26

FRESA A ¼ DI CERCHIO PER SMUSSARE GLI SPIGOLI

4 Z — HSSCo 8% — DIN 6518N — WELDON





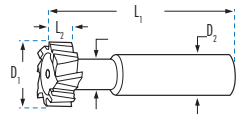


FF1/4R

	R TOL H11	D_1 mm js 15	D_2 mm TOL h6	L_1 mm	€
FF1/4R1	1,0	8	10	60	60,87
FF1/4R1.50	1,5	9	10	60	69,32
FF1/4R2	2,0	10	10	60	58,33
FF1/4R2.50	2,5	11	10	60	67,09
FF1/4R3	3,0	12	12	60	66,85
FF1/4R3.50	3,5	13	12	60	87,07
FF1/4R4	4,0	14	12	60	74,21
FF1/4R4.50	4,5	15	12	60	101,03
FF1/4R5	5,0	16	12	60	82,33
FF1/4R5.50	5,5	19	16	67	101,03
FF1/4R6	6,0	20	16	67	84,84
FF1/4R6.50	6,5	21	16	71	128,59
FF1/4R7	7,0	22	16	71	112,10
FF1/4R7.50	7,5	23	16	71	139,96
FF1/4R8	8,0	24	16	71	112,10
FF1/4R8.50	8,5	25	25	85	171,45
FF1/4R9	9,0	26	25	85	138,94
FF1/4R9.50	9,5	27	25	85	180,20
FF1/4R10	10,0	28	25	85	140,38
FF1/4R10.50	10,5	31	25	90	209,93
FF1/4R11	11,0	32	25	90	165,91
FF1/4R12	12,0	34	25	90	166,23
FF1/4R12.50	12,5	41	25	100	215,87
FF1/4R13	13,0	42	25	100	250,09
FF1/4R14	14,0	44	25	100	249,12
FF1/4R15	15,0	46	25	100	310,12
FF1/4R16	16,0	48	25	100	307,15
FF1/4R18	18,0	52	32	112	367,66
FF1/4R20	20,0	56	32	112	405,83

FRESA PER SCANALARE "WOODRUFF"

Ref. FF16 — TIPO WOODRUFF — DIN 850B — TOL D_1 h12 — TOL D_2 h6





FF16

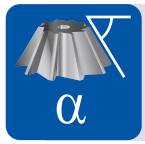
$D_1 \times L_2$ mm	D_2 mm	Z	L_1 mm	HSSCo €	TiAlN €
4,5x1,0	6	6	50	52,87	62,84
7,5x1,5	6	6	50	40,50	48,90
7,5x2,0	6	6	50	40,50	48,90
10,5x2,0	6	6	50	51,89	62,86
10,5x2,5	6	6	50	51,89	62,86
10,5x3,0	6	6	50	51,89	62,86
13,5x3,0	10	6	56	51,42	64,51
13,5x4,0	10	6	56	54,67	68,59
16,5x3,0	10	6	56	59,10	78,71
16,5x4,0	10	6	56	59,10	78,71
16,5x5,0	10	6	56	59,10	76,16
19,5x4,0	10	8	63	74,76	99,21
19,5x5,0	10	8	63	74,76	95,07
19,5x6,0	10	8	63	74,76	95,07
22,5x5,0	10	8	63	77,80	104,70
22,5x6,0	10	8	63	72,88	98,56
22,5x8,0	10	8	63	72,88	98,56
25,5x6,0	10	10	63	95,89	137,16
28,5x6,0	10	10	63	97,53	138,80
28,5x8,0	10	10	63	97,53	138,80
28,5x10,0	12	10	71	97,53	138,80
32,5x7,0	12	10	71	118,54	162,79
32,5x8,0	12	10	71	118,54	162,79
32,5x10,0	12	10	71	107,65	147,84
45,5x10,0	12	12	71	151,17	215,97

FRESE CONICHE ANGOLARI, CON CODOLO CILINDRICO HSSCo



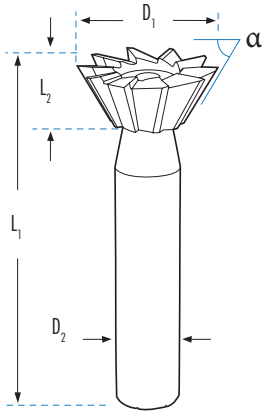
Ref. FF98
Ref. FF99

HSSCo | DIN 1833A | TOL D_1 js16 | TOL D_2 h6

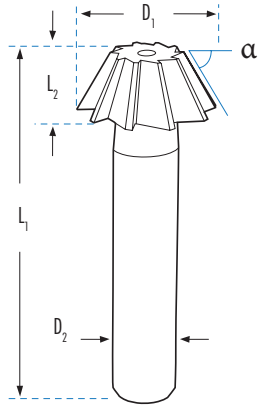


Ref. FF97
Ref. FF95

HSSCo | DIN 1833B | TOL D_1 js16 | TOL D_2 h6









FF98

45°	D_1 mm	α	D_2 mm	L_1 mm	L_2 mm	Z	€
FF981600	16	45º	12	60	4,0	8	57,35
FF982000	20	45º	12	63	5,0	10	72,49
FF982500	25	45º	12	67	6,3	12	90,12
FF983200	32	45º	16	71	8,0	14	116,95

FF97

45°	D_1 mm	α	D_2 mm	L_1 mm	L_2 mm	Z	€
FF971600	16	45º	12	60	4,0	8	54,76
FF972000	20	45º	12	63	5,0	10	69,59
FF972500	25	45º	12	67	6,3	12	87,10
FF973200	32	45º	16	71	8,0	12	113,03

FF99

60°	D_1 mm	α	D_2 mm	L_1 mm	L_2 mm	Z	€
FF991600	16	60º	12	60	6,3	8	57,13
FF992000	20	60º	12	63	8,0	10	72,59
FF992500	25	60º	12	67	10,0	12	90,11
FF993200	32	60º	16	71	12,5	14	117,25

FF95

60°	D_1 mm	α	D_2 mm	L_1 mm	L_2 mm	Z	€
FF951600	16	60º	12	60	6,3	8	54,54
FF952000	20	60º	12	63	8,0	10	69,45
FF952500	25	60º	12	67	10,0	12	87,29
FF953200	32	60º	16	71	12,5	12	112,75

MISURE SPECIALI — **FF99**

FF991600-50	16	50º	12	60	5,0	8	79,94
FF992000-50	20	50º	12	63	6,3	10	85,20
FF992500-50	25	50º	12	67	8,0	12	105,28
FF991600-55	16	55º	12	60	5,6	8	79,94
FF992000-55	20	55º	12	63	7,1	10	85,20
FF992500-55	25	55º	12	67	9,0	12	105,28
FF991600-75	16	75º	12	60	8,0	8	79,94
FF992500-75	25	75º	12	67	10,0	12	105,28
FF991600-80	16	80º	12	60	8,0	8	79,94
FF992500-80	25	80º	12	67	10,0	12	105,28
FF991600-85	16	85º	12	60	8,0	8	79,94
FF992500-85	25	85º	12	67	10,0	12	105,28

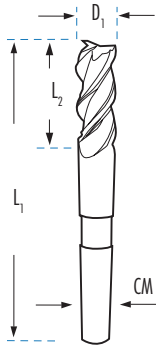
MISURE SPECIALI — **FF95**

FF951600-50	16	50º	12	60	5,0	8	66,74
FF952000-50	20	50º	12	63	6,3	10	85,20
FF952500-50	25	50º	12	67	8,0	12	106,29
FF951600-55	16	55º	12	60	5,6	8	66,74
FF952000-55	20	55º	12	63	7,1	10	85,20
FF952500-55	25	55º	12	67	9,0	12	106,29
FF951600-75	16	75º	12	60	8,0	8	66,74
FF952500-75	25	75º	12	67	10,0	12	106,29

FRESE FRONTALI CON CODOLO CONICO SERIE CORTA

4-8 Z | 30° N | CONICO | INOX | Al | 2 Z

SERIE CORTA





DIN 845B	FF09	FF35	FF39	FF10	FF46	FF48	DIN 326	FF55
MATERIALE	HSSCo 8%	HSSCo 8%	HSSCo 8%	HSSCo 8%	HSSCo 8%	HSSCo 8%		HSSCo 8%
FINITURA	BRILLANTE	TiN	TiAlN	BRILLANTE	TiN	TiAlN		BRILLANTE
QUALITÀ	★★	★★★	★★★	★★	★★★	★★★		
SGROSSATURA				NR	NR	NR		
	TOL k10	TOL k10	TOL k10	TOL k12	TOL k12	TOL k12		TOL e8

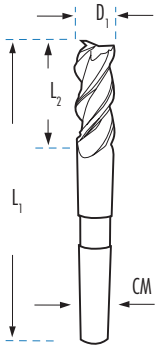
D_1 mm	L_1 mm	L_2 mm	Z	CM	FILETTO	€	€	€	€	€	€	L_1 mm	L_2 mm	Z	€
10,00	92	22	4	1	M6	47,11	65,73	68,96	87,42	104,26	107,30	83	13	2	67,05
12,00	111	26	4	2	M6	63,99	82,48	85,73	89,11	106,46	110,58	86	16	2	69,60
14,00	111	26	4	2	M10	70,93	90,34	94,74	101,24	118,96	124,74	101	16	2	72,23
15,00	111	26	4	2	M10	72,64	94,40	102,75	126,48	145,44	152,52				
16,00	117	32	4	2	M10	59,10	78,49	86,61	88,29	126,08	130,96	104	19	2	64,71
18,00	117	32	4	2	M10	62,80	81,93	90,39	96,88	135,01	141,60	104	19	2	78,59
20,00	123	38	4	2	M10	83,61	103,20	108,17	112,29	150,16	157,45	107	22	2	86,82
22,00	123	38	5	2	M10	83,89	106,32	118,76	123,62	161,34	169,17	107	22	2	102,25
24,00	147	45	6	3	M12	99,29	114,47	133,30	145,96	211,76	222,04	128	26	2	132,31
25,00	154	45	5	3	M12	100,30	123,96	148,81	156,57	219,32	229,98	128	26	2	118,19
26,00	147	45	6	3	M12	119,23	151,53	167,41	168,13	236,05	247,56	128	26	2	132,69 *
28,00	154	50	5	3	M12	124,97	158,82	182,31	175,92	242,78	264,07	128	26	2	141,84
30,00	154	50	6	3	M12	165,09	218,14	224,41	220,17	281,90	295,63	128	26	2	173,88
32,00	178	53	6	4	M16	177,24	228,77	260,56	244,92	348,70	365,65	157	32	2	195,35
36,00	178	53	6	4	M16	213,77	268,28	291,42	296,70	378,52	396,93	157	32	2	249,18
40,00	188	63	6	4	M16	237,50	296,94	368,15	377,17	463,50	486,03	163	38	2	287,18
45,00	188	63	6	4	M16	337,68	415,40	466,42	428,69	566,44	593,99	163	38	2	414,74
50,00	233	75	6	5	M20	414,54	489,16	539,01	549,57	617,64	647,63	203	45	2	521,04
56,00	233	75	8	5	M20	561,19	624,46	701,15	782,56	798,30	837,11				
63,00	241	90	8	5	M20	704,57	758,58	851,74	947,15	974,02	1.021,35				

*Fino ad esaurimento scorte

FRESE FRONTALI CON CODOLO CONICO SERIE LUNGA DIN 845B/L

4-8 Z | 30° N | CONICO | INOX | Al

SERIE LUNGA





DIN 845B/L

	FF11	FF61	FF71	FF12	FF33	FF43
MATERIALE	HSSCo 8%	HSSCo 8%	HSSCo 8%	HSSCo 8%	HSSCo 8%	HSSCo 8%
FINITURA	BRILLANTE	TiN	TiAlN	BRILLANTE	TiN	TiAlN
QUALITÀ	★★	★★★	★★★	★★	★★★	★★★
SGROSSATURA				NR	NR	NR
	TOL k10	TOL k10	TOL k10	TOL k12	TOL k12	TOL k12

D_1 mm	L_1 mm	L_2 mm	Z	CM	FILETTO	€	€	€	€	€	€
10,00	115	45	4	1	M6	89,13	121,00	128,78	127,85	170,44	176,24
12,00	138	53	4	2	M6	91,33	124,56	132,43	130,10	172,67	180,22
14,00	138	53	4	2	M10	96,12	135,30	141,21	163,91	211,93	221,18
15,00	138	53	4	2	M10	105,51	141,86	148,01	188,50	243,51	254,17
16,00	148	63	4	2	M10	97,14	138,30	144,33	136,33	185,93	194,05
18,00	148	63	4	2	M10	98,49	151,82	158,41	141,52	191,69	200,06
20,00	160	75	4	2	M10	129,01	169,83	177,22	139,06	219,95	229,53
22,00	160	75	5	2	M10	148,98	186,88	195,88	159,43	226,82	236,71
24,00	192	90	5	3	M12	166,19	241,98	254,89	188,45	295,91	310,81
25,00	184	80	5	3	M12	167,07	249,71	262,38	189,03	300,18	313,26
26,00	192	90	5	3	M12	200,64	269,61	283,33	249,24	325,53	339,74
28,00	192	90	5	3	M12	203,30	285,29	300,50	249,24	325,53	339,74
30,00	192	90	5	3	M12	231,75	320,34	336,60	275,19	389,90	406,93
32,00	229	100	6	4	M16	260,95	379,32	398,57	316,00	465,48	485,83
36,00	231	106	6	4	M16	351,53	425,34	446,92	353,02	523,72	546,57
40,00	250	125	6	4	M16	390,62	478,58	502,90	384,38	579,84	605,17
45,00	250	125	6	4	M16	526,46	636,36	670,29	525,30	809,86	845,25
50,00	268	110	6	5	M20	642,50	745,54	785,34	550,63	982,12	1.025,01
56,00	308	150	8	5	M20	676,12	778,39	821,29	915,58	1.125,42	1.185,59
63,00	338	180	8	5	M20	894,35	992,75	1.045,53	1.152,69	1.387,05	1.461,16

ASSORTIMENTI DI FRESE CON TAGLIO AL CENTRO IN SCATOLE DI PLASTICA

2 Z  **DIN 327**



REFERENCIA	PTF20	PTF60
Nº FRESE	8	8
TIPO	Ref. FF02	Ref. FF60
QUALITÀ	HSSCo 8%	TiAlN
CONTENUTO Ø mm	6/2 8/2 10/2 12/2	6/2 8/2 10/2 12/2
P.V.P. €	143,36	221,90

4 Z  **DIN 844**



REFERENCIA	PTF24	PTF64
Nº FRESE	8	8
TIPO	Ref. FF18	Ref. FF20
QUALITÀ	HSSCo 8%	TiAlN
CONTENUTO Ø mm	6/2 8/2 10/2 12/2	6/2 8/2 10/2 12/2
P.V.P. €	173,98	252,01

2 Z  **DIN 327**



REFERENCIA	PTF21	PTF61
Nº FRESE	6	6
TIPO	Ref. FF02	Ref. FF60
QUALITÀ	HSSCo 8%	TiAlN
CONTENUTO Ø mm	6-8-10-12-16-20	6-8-10-12-16-20
P.V.P. €	158,16	234,17

4 Z  **DIN 844**



REFERENCIA	PTF25	PTF65
Nº FRESE	6	6
TIPO	Ref. FF18	Ref. FF20
QUALITÀ	HSSCo 8%	TiAlN
CONTENUTO Ø mm	6-8-10-12-16-20	6-8-10-12-16-20
P.V.P. €	189,26	264,58

2 Z  **DIN 327**



REFERENCIA	PTF22	PTF62
Nº FRESE	6	6
TIPO	Ref. FF02	Ref. FF60
QUALITÀ	HSSCo 8%	TiAlN
CONTENUTO Ø mm	4-5-6-8-10-12	4-5-6-8-10-12
P.V.P. €	98,76	150,71

4 Z  **DIN 844**



REFERENCIA	PTF26	PTF66
Nº FRESE	6	6
TIPO	Ref. FF18	Ref. FF20
QUALITÀ	HSSCo 8%	TiAlN
CONTENUTO Ø mm	4-5-6-8-10-12	4-5-6-8-10-12
P.V.P. €	118,47	171,57

ASSORTIMENTI DI FRESE CON TAGLIO AL CENTRO IN SCATOLE METALLICHE

2 Z  **DIN 327**





REFERENZA	**FF010787**	**FF020787**	**FT020787**	**FF600787**
Nº FRESE	6	6	6	6
TIPO	Ref. FF01	Ref. FF02	Ref. FT02	Ref. FF60
QUALITÀ	HSS	HSSCo 8%	TiAlSiN	TiAlN
CONTENUTO Ø mm	4 - 5 - 6 - 8 - 10 - 12	4 - 5 - 6 - 8 - 10 - 12	4 - 5 - 6 - 8 - 10 - 12	4 - 5 - 6 - 8 - 10 -12
P.V.P. €	**96,58**	**122,29**	**194,02**	**175,67**

REFERENZA	**FF010447**	**FF020447**	**FT020447**	**FF600447**
Nº FRESE	6	6	6	6
TIPO	Ref. FF01	Ref. FF02	Ref. FT02	Ref. FF60
QUALITÀ	HSS	HSSCo 8%	TiAlSiN	TiAlN
CONTENUTO Ø mm	6 - 8 - 10 - 12 - 16 - 20	6 - 8 - 10 - 12 - 16 - 20	6 - 8 - 10 - 12 - 16 - 20	6 - 8 - 10 - 12 - 16 - 20
P.V.P. €	**144,47**	**181,75**	**290,95**	**262,20**

ASSORTIMENTI DI FRESE IN SCATOLE METALLICHE

4 Z  **DIN 844**






REFERENZA	**FF030787**	**FF040787**	**FT040787**	**FF540787**
Nº FRESE	6	6	6	6
TIPO	Ref. FF03	Ref. FF04	Ref. FT04	Ref. FF54
QUALITÀ	HSS	HSSCo 8%	TiAlSiN	TiAlN
CONTENUTO Ø mm	4 - 5 - 6 - 8 - 10 - 12	4 - 5 - 6 - 8 - 10 - 12	4 - 5 - 6 - 8 - 10 - 12	4 - 5 - 6 - 8 - 10 - 12
P.V.P. **€**	**94,99**	**125,28**	**195,23**	**190,92**

REFERENZA	**FF030847**	**FF040847**	**FT040847**	**FF540847**
Nº FRESE	6	6	6	6
TIPO	Ref. FF03	Ref. FF04	Ref. FT04	Ref. FF54
QUALITÀ	HSS	HSSCo 8%	TiAlSiN	TiAlN
CONTENUTO Ø mm	6 - 8 - 10 - 12 - 16 - 20	6 - 8 - 10 - 12 - 16 - 20	6 - 8 - 10 - 12 - 16 - 20	6 - 8 - 10 - 12 - 16 - 20
P.V.P. **€**	**142,36**	**190,43**	**291,79**	**274,25**

REFERENZA	**FF250847**	**FT250847**	**FF270847**
Nº FRESE	6	6	6
TIPO	Ref. FF25	Ref. FT25	Ref. FF27
QUALITÀ	HSSCo 8%	TiAlSiN	TiAlN
CONTENUTO Ø mm	6 - 8 - 10 - 12 - 16 - 20	6 - 8 - 10 - 12 - 16 - 20	6 - 8 - 10 - 12 - 16 - 20
P.V.P. €	**294,04**	**458,79**	**389,14**

4 Z  **DIN 844** **NR**

ASSORTIMENTI DI FRESE IN SCATOLE METALLICHE

4 Z  **DIN 844**

REFERENZA	FF180787	FT180787	FF200787
Nº FRESE	6	6	6
TIPO	Ref. FF18	Ref. FT18	Ref. FF20
QUALITÀ	HSSCo 8%	TiAlSiN	TiAlN
CONTENUTO Ø mm	4 - 5 - 6 - 8 - 10 -12	4 - 5 - 6 - 8 - 10 -12	4 - 5 - 6 - 8 - 10 -12
P.V.P. €	133,38	196,80	187,62


Ref. FF180787

REFERENZA	FF180847	FT180847	FF200847
Nº FRESE	6	6	6
TIPO	Ref. FF18	Ref. FT18	Ref. FF20
QUALITÀ	HSSCo 8%	TiAlSiN	TiAlN
CONTENUTO Ø mm	6 - 8 - 10 - 12 - 16 -20	6 - 8 - 10 - 12 - 16 -20	6 - 8 - 10 - 12 - 16 -20
P.V.P. €	209,21	307,64	285,70


Ref. FF180847

ESPOSITORE IN METACRILATO Ref. MF-01 **MF-01**



Contenuto: 163 Frese

						Ø / Q.tà											
Ref. FF13	1 Z		HSSCo	Al	SERIE CORTA		5 x 8 / 5	Codolo	6 x 8 / 5	Codolo							
Ref. FF14	1 Z		HSSCo	Al	SERIE LARGA		5 x 8 / 5	Codolo	6 x 8 / 5	Codolo							
Ref. FF02	2 Z		HSSCo	DIN 327N	30° N		2 / 5	3 / 5	4 / 5	5 / 5	6 / 5	7 / 5	8 / 5	9 / 5	10 / 5	12 / 5	14 / 5	16 / 3
Ref. FF18	4 Z		HSSCo	DIN 844N	30° N		2 / 5	3 / 5	4 / 5	5 / 5	6 / 5	7 / 5	8 / 5	9 / 5	10 / 5	12 / 5	14 / 5	16 / 3
Ref. FF25	4 Z		HSSCo	DIN 844N	30° N	NR	6 / 3	7 / 3	8 / 3	9 / 3	10 / 3	11 / 3	12 / 3	14 / 3	16 / 3			

P.V.P. **3.851,10 €**

Dimensioni: larghezza 245 x profondità 210 x altezza 350 mm
NOTA: Composizioni speciali su richiesta

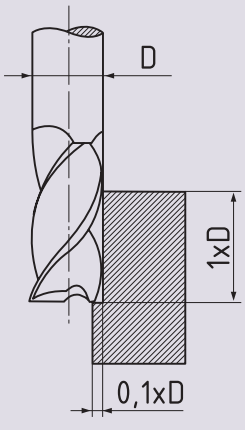
PARAMETRI DI TAGLIO INDICATIVI FRESE HSSCO 8%

			DIAMETRO Ø (mm)												
			2	4	6	8	10	12	18	22	26	30	32	36	40
ACCIAIO DOLCE 70 kg/mm²	V/C 39	RPM	6207	3104	2069	1552	1241	1035	690	564	477	414	388	345	310
AVANZAMENTO (mm/min)	Nº tagli	2	50	56	74	84	82	81	80	81	76	68	68	62	60
		3	74	84	112	126	123	121	120	122	115	102	102	93	89
		4	99	112	149	168	164	161	160	163	153	136	137	124	119
ACCIAIO TRATTATO 120 kg/mm²	V/C 20	RPM	3183	1592	1061	796	637	531	354	289	245	212	199	177	159
AVANZAMENTO (mm/min)	Nº tagli	2	25	29	38	43	42	41	41	42	39	35	35	32	31
		3	38	43	57	64	63	62	62	63	59	52	53	48	46
		4	51	57	76	86	84	83	82	83	78	70	70	64	61
INOX	V/C 15	RPM	2387	1194	796	597	477	398	265	217	184	159	149	133	119
AVANZAMENTO (mm/min)	Nº tagli	2	19	21	29	32	32	31	31	31	29	26	26	24	23
		3	29	32	43	48	47	47	46	47	44	39	39	36	34
		4	38	43	57	64	63	62	62	63	59	52	53	48	46
ALLUMINIO	V/C 230	RPM	36606	18303	12202	9151	7321	6101	4067	3328	2816	2440	2288	2034	1830
AVANZAMENTO (mm/min)	Nº tagli	2	293	329	439	494	483	476	472	479	451	400	403	366	351
		3	439	494	659	741	725	714	708	719	676	600	604	549	527
		4	586	659	879	988	966	952	944	958	901	800	805	732	703
TITANIO	V/C 12	RPM	1910	955	637	477	382	318	212	174	147	127	119	106	95
AVANZAMENTO (mm/min)	Nº tagli	2	15	17	23	26	25	25	25	25	24	21	21	19	18
		3	23	26	34	39	38	37	37	38	35	31	32	29	28
		4	31	34	46	52	50	50	49	50	47	42	42	38	37

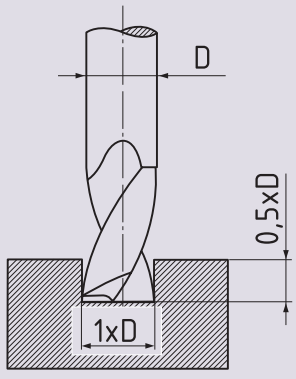
* Per frese rivestite moltiplicare i parametri in tabella per 1,3 e per frese ASP 60 moltiplicare per 1,8.

* V/C: Velocità di taglio (m/mm)

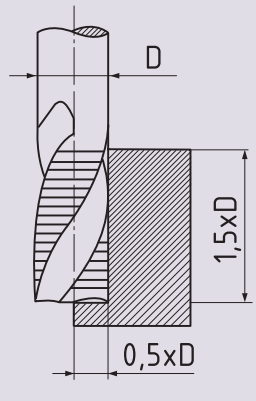
PROFONDITÀ DEL PASSAGGIO IN FUNZIONE DELL'OPERAZIONE DA REALIZZARE



FRESATURA LATERALE



SCANALATURA



SGROSSATURA

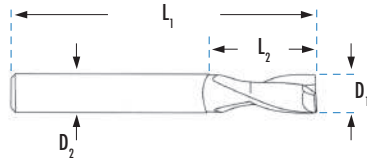
BLUE-MASTER®
by celesa



FRESE IN METALLO DURO

FRESE IN METALLO DURO INTEGRALE PER APPLICAZIONI GENERALI SERIE CORTA

USO GENERALE | **MD** | 30° N | CILINDRICO | **2 Z** | **3 Z**



SERIE CORTA

MATERIALE / FINITURA / QUALITÀ				FMD2			FMD2TL			FMD63			FMD63TL	
				MD			MD			MD			MD	
				BRILLANTE			TiAlN			BRILLANTE			TiAlN	
				★★			★★★			★★			★★★	
				2Z			2Z			3Z			3Z	
D_1 mm	L_1 mm	L_2 mm	D_2 mm		€			€			€			€
1,00	38	3	3	FMD20100	17,53	FMD20100TIALN	23,24	FMD630100	17,53	FMD630100TIALN	23,24
1,00	50	3	4	FMD20100X50	18,78	FMD20100X50TIALN	25,64	FMD630100X50	18,78	FMD630100X50TIALN	25,64
1,50	38	4	3	FMD20150	17,53	FMD20150TIALN	23,24	FMD630150	17,53	FMD630150TIALN	23,24
1,50	50	4	4	FMD20150X50	18,78	FMD20150X50TIALN	25,64	FMD630150X50	18,78	FMD630150X50TIALN	25,64
2,00	38	6	3	FMD20200	17,53	FMD20200TIALN	23,24	FMD630200	17,53	FMD630200TIALN	23,24
2,00	50	6	4	FMD20200X50	18,78	FMD20200X50TIALN	25,64	FMD630200X50	18,78	FMD630200X50TIALN	25,64
2,50	38	8	3	FMD20250	17,53	FMD20250TIALN	23,24	FMD630250	17,53	FMD630250TIALN	23,24
2,50	50	8	4	FMD20250X50	18,78	FMD20250X50TIALN	25,64	FMD630250X50	18,78	FMD630250X50TIALN	25,64
3,00	38	8	3	FMD20300	16,82	FMD20300TIALN	22,53	FMD630300	16,82	FMD630300TIALN	22,53
3,00	50	8	4	FMD20300X5004	18,49	FMD20300X5004TIALN	26,51	FMD630300X5004	18,49	FMD630300X5004TIALN	26,51
3,00	50	8	6	FMD20300X5006	19,85	FMD20300X5006TIALN	27,71	FMD630300X5006	19,85	FMD630300X5006TIALN	27,71
3,50	50	11	4	FMD20350	19,66	FMD20350TIALN	25,37	FMD630350	19,66	FMD630350TIALN	25,37
4,00	50	11	4	FMD20400	16,71	FMD20400TIALN	22,42	FMD630400	16,71	FMD630400TIALN	22,42
4,00	50	11	6	FMD20400X5006	20,36	FMD20400X5006TIALN	27,80	FMD630400X5006	20,36	FMD630400X5006TIALN	27,80
4,50	50	11	6	FMD20450	21,54	FMD20450TIALN	27,25	FMD630450	21,54	FMD630450TIALN	27,25
5,00	50	13	5	FMD20500	18,98	FMD20500TIALN	24,69	FMD630500	18,98	FMD630500TIALN	24,69
5,00	50	13	6	FMD20500X5006	21,08	FMD20500X5006TIALN	27,98	FMD630500X5006	21,08	FMD630500X5006TIALN	27,98
5,50	50	16	6	FMD20550	20,76	FMD20550TIALN	28,01	FMD630550	20,76	FMD630550TIALN	28,01
6,00	50	16	6	FMD20600	20,77	FMD20600TIALN	26,48	FMD630600	20,77	FMD630600TIALN	26,48
6,00	58	22	6	FMD20600X58	22,32	FMD20600X58TIALN	28,19	FMD630600X58	22,32	FMD630600X58TIALN	28,19
6,35	60	19	8	FMD20635	24,24	FMD20635TIALN	30,00	FMD630635	24,24	FMD630635TIALN	30,00
6,50	60	19	8	FMD20650	27,23	FMD20650TIALN	34,22	FMD630650	27,23	FMD630650TIALN	34,22
7,00	60	19	8	FMD20700	33,98	FMD20700TIALN	40,83	FMD630700	33,98	FMD630700TIALN	40,83
7,50	60	19	8	FMD20750	33,97	FMD20750TIALN	40,84	FMD630750	33,97	FMD630750TIALN	40,84
8,00	60	19	8	FMD20800	30,87	FMD20800TIALN	37,73	FMD630800	30,87	FMD630800TIALN	37,73
8,50	72	22	10	FMD20850	35,88	FMD20850TIALN	42,59	FMD630850	35,88	FMD630850TIALN	42,59
9,00	72	22	10	FMD20900	37,08	FMD20900TIALN	43,55	FMD630900	37,08	FMD630900TIALN	43,55
9,50	72	22	10	FMD20950	49,07	FMD20950TIALN	58,76	FMD630950	49,07	FMD630950TIALN	58,76
10,00	72	22	10	FMD21000	46,37	FMD21000TIALN	54,36	FMD631000	46,37	FMD631000TIALN	54,36
10,00	80	32	10	FMD21000X80	50,27	FMD21000X80TIALN	57,72	FMD631000X80	50,27	FMD631000X80TIALN	57,72
10,50	75	26	12	FMD21050	50,27	FMD21050TIALN	58,67	FMD631050	50,27	FMD631050TIALN	58,67
11,00	75	26	12	FMD21100	67,84	FMD21100TIALN	76,98	FMD631100	67,84	FMD631100TIALN	76,98
12,00	75	26	12	FMD21200	59,13	FMD21200TIALN	68,26	FMD631200	59,13	FMD631200TIALN	68,26
12,50	84	30	14	FMD21250	60,12	FMD21250TIALN	68,27	FMD631250	60,12	FMD631250TIALN	68,27
13,00	84	30	14	FMD21300	60,83	FMD21300TIALN	68,40	FMD631300	60,83	FMD631300TIALN	68,40
14,00	84	30	14	FMD21400	90,84	FMD21400TIALN	102,28	FMD631400	90,84	FMD631400TIALN	102,28
14,00	100	50	14	FMD21400X100	101,15	FMD21400X100TIALN	113,63	FMD631400X100	101,15	FMD631400X100TIALN	113,63
15,00	92	32	16	FMD21500	103,92	FMD21500TIALN	116,40	FMD631500	103,92	FMD631500TIALN	116,40
16,00	92	32	16	FMD21600	117,37	FMD21600TIALN	129,94	FMD631600	117,37	FMD631600TIALN	129,94
16,00	100	50	16	FMD21600X100	126,11	FMD21600X100TIALN	139,55	FMD631600X100	126,11	FMD631600X100TIALN	139,55
17,00	100	38	18	FMD21700	119,39	FMD21700TIALN	133,40	FMD631700	119,39	FMD631700TIALN	133,40
18,00	100	38	18	FMD21800	171,97	FMD21800TIALN	189,12	FMD631800	171,97	FMD631800TIALN	189,12
18,00	100	50	18	FMD21800X10050	188,51	FMD21800X10050TIALN	207,71	FMD631800X10050	188,51	FMD631800X10050TIALN	207,71
19,00	100	38	20	FMD21900	193,31	FMD21900TIALN	212,51	FMD631900	193,31	FMD631900TIALN	212,51
20,00	100	38	20	FMD22000	195,61	FMD22000TIALN	217,32	FMD632000	195,61	FMD632000TIALN	217,32
20,00	100	50	20	FMD22000X10050	206,75	FMD22000X10050TIALN	228,83	FMD632000X10050	206,75	FMD632000X10050TIALN	228,83
22,00	100	38	22	FMD22200	277,79	FMD22200TIALN	312,35	FMD632200	277,79	FMD632200TIALN	312,35
25,00	100	45	25	FMD22500	339,43	FMD22500TIALN	372,57	FMD632500	339,43	FMD632500TIALN	372,57
25,00	110	55	25	FMD22500X110	373,79	FMD22500X110TIALN	418,91	FMD632500X110	373,79	FMD632500X110TIALN	418,91



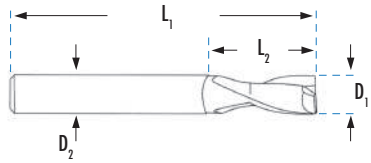
FMD2 FMD63



44 HRc

FRESE IN METALLO DURO INTEGRALE PER APPLICAZIONI GENERALI SERIE CORTA

USO GENERALE | **MD** | 30° N | CILINDRICO | **4 Z** | TOL D_1 +0 -0,05 | TOL D_2 h6



SERIE LUNGA

MATERIALE / FINITURA / QUALITÀ					FMD48 MD BRILLANTE ★★ 4Z		FMD48TL MD TiAlN ★★★ 4Z
D_1 mm	L_1 mm	L_2 mm	D_2 mm		€		€
1,00	38	3	3	FMD480100	17,53	FMD480100TIALN	23,24
1,00	50	3	4	FMD480100X50	18,78	FMD480100X50TIALN	25,64
1,50	38	4	3	FMD480150	17,53	FMD480150TIALN	23,24
1,50	50	4	4	FMD480150X50	18,78	FMD480150X50TIALN	25,64
2,00	38	6	3	FMD480200	17,53	FMD480200TIALN	23,24
2,00	50	6	4	FMD480200X50	18,78	FMD480200X50TIALN	25,64
2,50	38	8	3	FMD480250	17,53	FMD480250TIALN	23,24
2,50	50	8	4	FMD480250X50	18,78	FMD480250X50TIALN	25,64
3,00	38	8	3	FMD480300	16,82	FMD480300TIALN	22,53
3,00	50	8	4	FMD480300X5004	18,49	FMD480300X5004TIALN	26,51
3,00	50	8	6	FMD480300X5006	19,85	FMD480300X5006TIALN	27,71
3,50	50	11	4	FMD480350	19,66	FMD480350TIALN	25,37
4,00	50	11	4	FMD480400	16,71	FMD480400TIALN	22,42
4,00	50	11	6	FMD480400X5006	20,36	FMD480400X5006TIALN	27,80
4,50	50	11	6	FMD480450	21,54	FMD480450TIALN	27,25
5,00	50	13	5	FMD480500	18,98	FMD480500TIALN	24,69
5,00	50	13	6	FMD480500X5006	21,08	FMD480500X5006TIALN	27,98
5,50	50	16	6	FMD480550	20,76	FMD480550TIALN	28,01
6,00	50	16	6	FMD480600	20,77	FMD480600TIALN	26,48
6,00	58	22	6	FMD480600X58	22,32	FMD480600X58TIALN	28,19
6,35	60	19	8	FMD480635	24,24	FMD480635TIALN	30,00
6,50	60	19	8	FMD480650	27,23	FMD480650TIALN	34,22
7,00	60	19	8	FMD480700	33,98	FMD480700TIALN	40,83
7,50	60	19	8	FMD480750	33,97	FMD480750TIALN	40,84
8,00	60	19	8	FMD480800	30,87	FMD480800TIALN	37,73
8,50	72	22	10	FMD480850	35,88	FMD480850TIALN	42,59
9,00	72	22	10	FMD480900	37,08	FMD480900TIALN	43,55
9,50	72	22	10	FMD480950	49,07	FMD480950TIALN	58,76
10,00	72	22	10	FMD481000	46,37	FMD481000TIALN	54,36
10,00	80	32	10	FMD481000X80	50,27	FMD481000X80TIALN	57,72
10,50	75	26	12	FMD481050	50,27	FMD481050TIALN	58,67
11,00	75	26	12	FMD481100	67,84	FMD481100TIALN	76,98
12,00	75	26	12	FMD481200	59,13	FMD481200TIALN	68,26
12,50	84	30	14	FMD481250	60,12	FMD481250TIALN	68,27
13,00	84	30	14	FMD481300	60,83	FMD481300TIALN	68,40
14,00	84	30	14	FMD481400	90,84	FMD481400TIALN	102,28
14,00	100	50	14	FMD481400X100	101,15	FMD481400X100TIALN	113,63
15,00	92	32	16	FMD481500	103,92	FMD481500TIALN	116,40
16,00	92	32	16	FMD481600	117,37	FMD481600TIALN	129,94
16,00	100	50	16	FMD481600X100	126,11	FMD481600X100TIALN	139,55
17,00	100	38	18	FMD481700	119,39	FMD481700TIALN	133,40
18,00	100	38	18	FMD481800	171,97	FMD481800TIALN	189,12
18,00	100	50	18	FMD481800X10050	188,51	FMD481800X10050TIALN	207,71
19,00	100	38	20	FMD481900	193,31	FMD481900TIALN	212,51
20,00	100	38	20	FMD482000	195,61	FMD482000TIALN	217,32
20,00	100	50	20	FMD482000X10050	206,75	FMD482000X10050TIALN	228,83
22,00	100	38	22	FMD482200	277,79	FMD482200TIALN	312,35
25,00	100	45	25	FMD482500	339,43	FMD482500TIALN	372,57
25,00	110	55	25	FMD482500X110	373,79	FMD482500X110TIALN	418,91



FMD48 FMD48TL



44 HRc

FRESE IN METALLO DURO INTEGRALE PER APPLICAZIONI GENERALI SERIE LUNGA

USO GENERALE | MD | 30° N | CILINDRICO | 2 Z | 3 Z | 4 Z

SERIE LUNGA

					FMD54		FMD54TL		FMD73		FMD73TL
MATERIALE					MD		MD		MD		MD
FINITURA					BRILLANTE		TiAlN		BRILLANTE		TiAlN
QUALITÀ					★★		★★★		★★		★★
					2Z		2Z		3Z		3Z
D_1 mm	L_1 mm	L_2 mm	D_2 mm		€		€		€		€
1,00	60	5	3	FMD540100	18,41	FMD540100TIALN	25,55	FMD730100	18,41	FMD730100TIALN	25,55
2,00	60	10	3	FMD540200	18,89	FMD540200TIALN	26,03	FMD730200	18,89	FMD730200TIALN	26,03
3,00	60	15	3	FMD540300	19,40	FMD540300TIALN	26,54	FMD730300	19,40	FMD730300TIALN	26,54
4,00	80	20	4	FMD540400	20,45	FMD540400TIALN	27,58	FMD730400	20,45	FMD730400TIALN	27,58
5,00	80	25	5	FMD540500	25,45	FMD540500TIALN	32,59	FMD730500	25,45	FMD730500TIALN	32,59
6,00	80	25	6	FMD540600	35,89	FMD540600TIALN	43,02	FMD730600	35,89	FMD730600TIALN	43,02
7,00	90	35	8	FMD540700	37,85	FMD540700TIALN	47,69	FMD730700	37,85	FMD730700TIALN	47,69
8,00	90	35	8	FMD540800	40,86	FMD540800TIALN	50,39	FMD730800	40,86	FMD730800TIALN	50,39
9,00	100	45	10	FMD540900	53,36	FMD540900TIALN	64,25	FMD730900	53,36	FMD730900TIALN	64,25
10,00	100	45	10	FMD541000	57,74	FMD541000TIALN	67,27	FMD731000	57,74	FMD731000TIALN	67,27
12,00	100	50	12	FMD541200	78,82	FMD541200TIALN	90,73	FMD731200	78,82	FMD731200TIALN	90,73
14,00	150	65	14	FMD541400	129,70	FMD541400TIALN	145,17	FMD731400	129,70	FMD731400TIALN	145,17
16,00	150	65	16	FMD541600	142,10	FMD541600TIALN	157,57	FMD731600	142,10	FMD731600TIALN	157,57
16,00	150	90	16	FMD541600X15090	156,30	FMD541600X15090TIALN	173,33	FMD731600X15090	156,30	FMD731600X15090TIALN	173,33
20,00	150	70	20	FMD542000	252,06	FMD542000TIALN	275,88	FMD732000	252,06	FMD732000TIALN	275,88
25,00	150	75	25	FMD542500	496,36	FMD542500TIALN	523,31	FMD732500	496,36	FMD732500TIALN	523,31



FMD54 FMD73

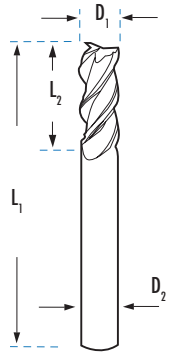
44 HRc

SERIE LUNGA

					FMD58		FMD58TL
MATERIALE					MD		MD
FINITURA					BRILLANTE		TiAlN
QUALITÀ					★★		★★★
					4Z		4Z
D_1 mm	L_1 mm	L_2 mm	D_2 mm		€		€
1,00	60	5	3	FMD580100	18,41	FMD580100TIALN	25,55
2,00	60	10	3	FMD580200	18,89	FMD580200TIALN	26,03
3,00	60	15	3	FMD580300	19,40	FMD580300TIALN	26,54
4,00	80	20	4	FMD580400	20,45	FMD580400TIALN	27,58
5,00	80	25	5	FMD580500	25,45	FMD580500TIALN	32,59
6,00	80	25	6	FMD580600	35,89	FMD580600TIALN	43,02
7,00	90	35	8	FMD580700	37,85	FMD580700TIALN	47,69
8,00	90	35	8	FMD580800	40,86	FMD580800TIALN	50,39
9,00	100	45	10	FMD580900	53,36	FMD580900TIALN	64,25
10,00	100	45	10	FMD581000	57,74	FMD581000TIALN	67,27
12,00	100	50	12	FMD581200	78,82	FMD581200TIALN	90,73
14,00	150	65	14	FMD581400	129,70	FMD581400TIALN	145,17
16,00	150	65	16	FMD581600	142,10	FMD581600TIALN	157,57
16,00	150	90	16	FMD581600X15090	156,30	FMD581600X15090TIALN	173,33
20,00	150	70	20	FMD582000	252,06	FMD582000TIALN	275,88
25,00	150	75	25	FMD582500	496,36	FMD582500TIALN	523,31



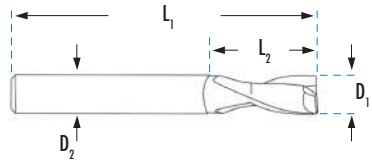
FMD58 FMD58TL



44 HRc

FRESE IN METALLO DURO INTEGRALE PER APPLICAZIONI GENERALI SERIE EXTRA LUNGA

USO GENERALE | MD | 30° N | CILINDRICO | 2 Z | 4 Z



SERIE EXTRA LUNGA

				FMD53			FMD53TL			FMD56			FMD56TL
MATERIALE				MD		MD			MD			MD	
FINITURA				BRILLANTE		TiAlN			BRILLANTE			TiAlN	
QUALITÀ				★★		★★★			★★			★★★	
				2Z		2Z			4Z			4Z	
Ø mm	L_1 mm	L_2 mm	D_2 mm		€		€			€			€
3,00	75	25	3	FMD530300	41,71	FMD530300TIALN	53,62	FMD560300	43,16	FMD560300TIALN	55,07
3,00	100	25	3	FMD530300X100	44,46	FMD530300X100TIALN	56,54	FMD560300X100	45,66	FMD560300X100TIALN	57,36
4,00	100	25	4	FMD530400	45,32	FMD530400TIALN	57,23	FMD560400	46,74	FMD560400TIALN	58,65
5,00	100	25	5	FMD530500	51,22	FMD530500TIALN	63,13	FMD560500	53,82	FMD560500TIALN	65,73
6,00	100	25	6	FMD530600X10025	77,25	FMD530600X10025TIALN	96,96	FMD560600X10025	79,57	FMD560600X10025TIALN	99,87
6,00	100	40	6	FMD530600X10040	78,85	FMD530600X10040TIALN	98,11	FMD560600X10040	81,22	FMD560600X10040TIALN	101,05
6,00	150	25	6	FMD530600X15025	80,80	FMD530600X15025TIALN	99,36	FMD560600X15025	83,22	FMD560600X15025TIALN	102,34
6,00	150	40	6	FMD530600X15040	83,36	FMD530600X15040TIALN	102,25	FMD560600X15040	85,86	FMD560600X15040TIALN	105,32
6,00	150	75	6	FMD530600	85,49	FMD530600TIALN	104,54	FMD560600	90,42	FMD560600TIALN	108,73
8,00	100	45	8	FMD530800X10045	106,33	FMD530800X10045TIALN	132,36	FMD560800X10045	109,52	FMD560800X10045TIALN	136,33
8,00	150	25	8	FMD530800X15025	111,11	FMD530800X15025TIALN	135,37	FMD560800X15025	114,44	FMD560800X15025TIALN	139,43
8,00	150	45	8	FMD530800X15045	114,45	FMD530800X15045TIALN	137,89	FMD560800X15045	117,88	FMD560800X15045TIALN	142,03
8,00	150	75	8	FMD530800	117,71	FMD5308TIALN	140,34	FMD560800	124,50	FMD5608TIALN	146,25
10,00	150	38	10	FMD531000X15038	137,36	FMD531000X15038TIALN	169,69	FMD561000X15038	141,48	FMD561000X15038TIALN	174,78
10,00	150	50	10	FMD531000X15050	141,41	FMD531000X15050TIALN	172,25	FMD561000X15050	145,65	FMD561000X15050TIALN	177,42
10,00	150	65	10	FMD531000X15065	145,36	FMD531000X15065TIALN	175,75	FMD561000X15065	149,72	FMD561000X15065TIALN	181,02
10,00	150	75	10	FMD531000	149,10	FMD531000TIALN	178,87	FMD561000	164,01	FMD561000TIALN	193,77
12,00	150	38	12	FMD531200X15038	199,96	FMD531200X15038TIALN	241,14	FMD561200X15038	205,96	FMD561200X15038TIALN	248,37
12,00	150	50	12	FMD531200X15050	205,36	FMD531200X15050TIALN	247,47	FMD561200X15050	211,52	FMD561200X15050TIALN	254,89
12,00	150	75	12	FMD531200	218,16	FMD531200TIALN	256,26	FMD561200	239,97	FMD561200TIALN	278,08
12,00	200	38	12	FMD531200X20038	231,25	FMD531200X20038TIALN	272,36	FMD561200X20038	258,36	FMD561200X20038TIALN	281,11
14,00	150	75	14	FMD531400	301,59	FMD531400TIALN	348,03	FMD561400	331,75	FMD561400TIALN	378,19
16,00	200	75	16	FMD531600	409,75	FMD531600TIALN	463,33	FMD561600	450,73	FMD561600TIALN	504,31
20,00	200	75	20	FMD532000	639,35	FMD532000TIALN	710,79	FMD562000	639,35	FMD562000TIALN	710,79



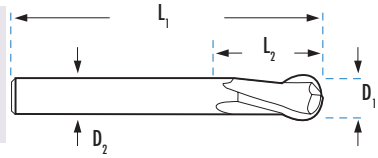
FMD53 FMD56



44 HRc

FRESE IN METALLO SFERICHE DURO INTEGRALE PER APPLICAZIONI GENERALI SERIE CORTA E LUNGA

USO GENERALE | MD | 30° N | CILINDRICO | 2 Z | 4 Z



SERIE CORTA

TOL D_1 +0 -0,05

TOL D_2 h6

MATERIALE / FINITURA / QUALITÀ				FMD92 MD BRILLANTE ★★ 2Z		FMD92TL MD TiAlN ★★★ 2Z		FMD51 MD BRILLANTE ★★ 4Z		FMD51TL MD TiAlN ★★★ 4Z	
D_1 mm	L_1 mm	L_2 mm	D_2 mm		€		€		€		€
1,00	38	2	3	FMD920100	21,91	FMD920100TIALN	27,86	FMD510100		FMD510100TIALN	
1,00	50	2	4	FMD920100X50	26,56	FMD920100X50TIALN	34,12	FMD510100X50		FMD510100X50TIALN	
1,50	38	3	3	FMD920150	21,91	FMD920150TIALN	27,86	FMD510150		FMD510150TIALN	
1,50	50	3	4	FMD920150X50	26,56	FMD920150X50TIALN	34,12	FMD510150X50		FMD510150X50TIALN	
2,00	38	4	3	FMD920200	21,91	FMD920200TIALN	27,86	FMD510200		FMD510200TIALN	
2,00	50	4	4	FMD920200X50	26,56	FMD920200X50TIALN	34,12	FMD510200X50		FMD510200X50TIALN	
2,50	38	5	3	FMD920250	21,91	FMD920250TIALN	27,86	FMD510250X50		FMD510250X50TIALN	
3,00	38	6	3	FMD920300	21,91	FMD920300TIALN	27,86	FMD510300	24,11	FMD510300TIALN	30,65
3,00	50	6	4	FMD920300X50	26,56	FMD920300X50TIALN	34,12	FMD510300X50		FMD510300X50TIALN	
4,00	50	8	4	FMD920400	24,97	FMD920400TIALN	30,92	FMD510400	27,47	FMD510400TIALN	34,01
5,00	50	10	5	FMD920500	26,42	FMD920500TIALN	32,38	FMD510500	29,06	FMD510500TIALN	35,61
6,00	50	12	6	FMD920600	31,09	FMD920600TIALN	37,04	FMD510600	34,21	FMD510600TIALN	40,75
7,00	60	15	8	FMD920700	37,85*	FMD920700TIALN	44,25	FMD510700	40,55	FMD510700TIALN	47,96
8,00	60	15	8	FMD920800	38,38	FMD920800TIALN	45,52	FMD510800	47,99	FMD510800TIALN	56,91
10,00	75	20	10	FMD921000	57,67	FMD921000TIALN	66,00	FMD511000	72,07	FMD511000TIALN	82,50
12,00	75	20	12	FMD921200	71,65	FMD921200TIALN	81,17	FMD511200	89,55	FMD511200TIALN	101,46
14,00	90	25	14	FMD921400	106,06	FMD921400TIALN	117,97	FMD511400	132,58	FMD511400TIALN	147,46
16,00	100	25	16	FMD921600	134,19	FMD921600TIALN	147,28	FMD511600	167,74	FMD511600TIALN	184,11
18,00	100	30	18	FMD921800	199,51	FMD921800TIALN	217,37	FMD511800	249,39	FMD511800TIALN	271,72
20,00	100	30	20	FMD922000	206,84	FMD922000TIALN	229,46	FMD512000	258,53	FMD512000TIALN	286,82

*Fino ad esaurimento scorte



FMD92 FMD51

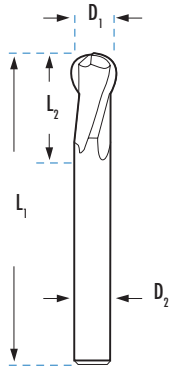
44 HRc

SERIE LUNGA

MATERIALE / FINITURA / QUALITÀ				FMD57 MD BRILLANTE ★★ 2Z		FMD57TL MD TiAlN ★★★ 2Z	
D_1 mm	L_1 mm	L_2 mm	D_2 mm		€		€
1,00	60	2	3	FMD570100	33,03	FMD570100TIALN	40,18
1,50	60	3	3	FMD570150	33,03	FMD570150TIALN	40,18
2,00	60	3	3	FMD570200	33,03	FMD570200TIALN	40,18
2,50	60	3	3	FMD570250	33,03	FMD570250TIALN	40,18
3,00	60	4	3	FMD570300	33,03	FMD570300TIALN	40,18
4,00	80	5	4	FMD570400	38,34	FMD570400TIALN	45,49
5,00	80	6	5	FMD570500	45,35	FMD570500TIALN	52,50
6,00	80	8	6	FMD570600	53,01	FMD570600TIALN	60,14
8,00	100	12	8	FMD570800	69,96	FMD570800TIALN	79,49
10,00	100	15	10	FMD571000	86,44	FMD571000TIALN	97,16
12,00	100	15	12	FMD571200	149,80	FMD571200TIALN	161,71
14,00	150	20	14	FMD571400	187,83	FMD571400TIALN	203,32
16,00	150	20	16	FMD571600	237,24	FMD571600TIALN	252,72
20,00	150	25	20	FMD572000	489,69	FMD572000TIALN	513,50



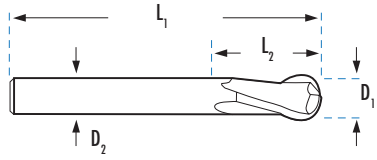
FMD57 FMD57TL



44 HRc

FRESE IN METALLO SFERICHE DURO INTEGRALE PER APPLICAZIONI GENERALI SERIE EXTRA LUNGA

USO GENERALE | MD | 30° N | CILINDRICO | 2 Z



SERIE EXTRA LUNGA

MATERIALE / FINITURA / QUALITÀ					FMD55 MD BRILLANTE ★★ 2Z		FMD55TL MD TiAlN ★★★ 2Z
D_1 mm	L_1 mm	L_2 mm	D_2 mm		€		€
3,00	75	6	3	FMD550300	39,59	FMD550300TIALN	51,50
3,00	100	6	3	FMD550300X100	42,42	FMD550300X100TIALN	55,36
4,00	100	6	4	FMD550400	45,67	FMD550400TIALN	57,57
5,00	100	6	5	FMD550500	55,19	FMD550500TIALN	67,10
6,00	100	15	6	FMD550600	69,36	FMD550600TIALN	81,27
6,00	150	15	6	FMD550600X150	81,81	FMD550600X150TIALN	96,31
6,00	200	30	6	FMD550600X200	96,36	FMD550600X200TIALN	109,12
8,00	150	25	8	FMD550800	93,17	FMD550800TIALN	111,03
8,00	200	50	8	FMD550800X200	112,12	FMD550800X200TIALN	132,11
10,00	150	25	10	FMD551000	131,27	FMD551000TIALN	149,13
10,00	200	50	10	FMD551000X200	149,99	FMD551000X200TIALN	171,71
12,00	150	25	12	FMD551200	208,78	FMD551200TIALN	242,11
12,00	200	25	12	FMD551200X200	256,36	FMD551200X200TIALN	294,22
14,00	200	50	14	FMD551400	256,40	FMD551400TIALN	294,51
16,00	200	50	16	FMD551600	344,51	FMD551600TIALN	386,18



FMD55 FMD55TL

44 HRc

CONDIZIONI DI TAGLIO INDICATIVE

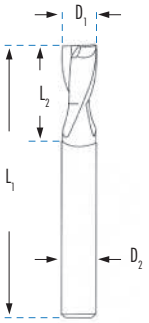
		Ø2	Ø3	Ø4	Ø5	Ø6	Ø8	Ø 10	Ø12	Ø14
44 HRc	RPM	4000	2600	2000	1600	1300	1000	800	660	570
	AVANZ. (mm/min)	50	55	55	55	55	55	55	55	55
INOX Ti	RPM	8000	5300	4000	3200	2600	2000	1600	1300	1100
	AVANZ. (mm/min)	55	55	55	55	60	60	60	60	60
Al	RPM	16000	11000	8000	6400	5300	4000	3200	2600	2300
	AVANZ. (mm/min)	290	290	290	290	290	290	290	290	300

* Per ricavare i parametri di taglio raccomandati per frese rivestite al TiAln, moltiplicare i valori del riquadro per il fattore 1,3.

FRESE IN METALLO DURO INTEGRALE ALTO RENDIMENTO E PRODUZIONE

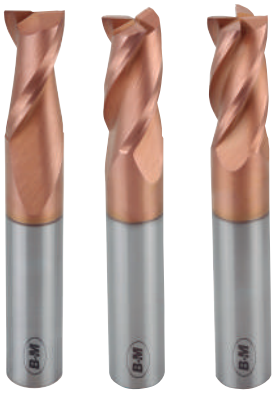
USO GENERALE | **MD** | CILINDRICO | **2 Z** | **3 Z** | **4 Z** | MOLTO RACCOMANDATO PER ALTE PRESTAZIONI DI LAVORAZIONE | Micro Grana MD

SERIE CORTA



TOL D_1 +0 -0,05

TOL D_2 h6





ELICA VARIABILE



				FMT2	FMT63	FMT48	FMT81	FMT92
				30° N	30° N	30° N	* 35° 38°	30° N
				MD	MD	MD	MD	MD
			MATERIALE	TiAlSiN	TiAlSiN	TiAlSiN	TiAlSiN	TiAlSiN
			FINITURA	Premium Quality	Premium Quality	Premium Quality	Premium Quality	Premium Quality
			QUALITÀ	2Z	3Z	4Z	4Z	2Z
D_1 mm	L_1 mm	L_2 mm	D_2 mm	€	€	€	€	€
1,00	38	3	3	45,85	45,85	45,85		
1,50	38	4	3	44,77	44,77	44,77		
2,00	38	6	3	35,63	35,63	35,63		
2,50	38	8	3	34,82	34,82	34,82		
3,00	38	8	3	29,99	29,99	29,99		
3,50	50	11	4	36,81	36,81	36,81		
4,00	50	11	4	34,20	34,20	34,20		
4,50	50	13	5	43,74	43,74	43,74		
5,00	50	13	5	43,21	43,21	43,21		
6,00	50	16	6	48,71	48,71	48,71		
7,00	60	16	8	67,94	67,94	67,94		
8,00	60	19	8	57,66	57,66	57,66		
9,00	72	19	10	82,67	82,67	82,67		
10,00	72	22	10	91,92	91,92	91,92		
11,00	75	26	12	122,27	122,27	122,27		
12,00	75	26	12	113,69	113,69	113,69		
14,00	84	30	14	169,00	169,00	169,00		
16,00	92	32	16	218,92	218,92	218,92		
18,00	100	38	18	304,21	304,21	304,21		
20,00	100	38	20	346,83	346,83	346,83		
25,00	100	38	25	569,30		569,30		

				FMT81
				* 35° 38°
				MD
			MATERIALE	TiAlSiN
			FINITURA	Premium Quality
			QUALITÀ	4Z
D_1 mm	L_1 mm	L_2 mm	D_2 mm	€
1,00	38	3	3	
1,50	38	5	3	
2,00	38	6	3	
2,50	38	7	3	
3,00	38	12	3	
3,50	50	12	4	
4,00	50	14	4	
4,50	50	14	5	
5,00	50	16	5	47,54
6,00	63	19	6	53,59
7,00	63	19	8	
8,00	63	19	8	63,42
9,00	70	22	10	
10,00	70	22	10	101,10
11,00	75	25	11	
12,00	75	25	12	125,05
14,00	88	30	14	185,89
16,00	88	32	16	240,81
18,00	100	36	18	334,62
20,00	100	36	20	381,51
25,00	100	38	25	

				FMT92
				30° N
				MD
			MATERIALE	TiAlSiN
			FINITURA	Premium Quality
			QUALITÀ	2Z
D_1 mm	L_1 mm	L_2 mm	D_2 mm	€
1,00	38	2	3	
1,50	38	3	3	
2,00	38	4	3	
2,50	38	5	3	
3,00	38	6	3	39,59
4,00	50	8	4	43,92
5,00	50	10	5	54,29
6,00	50	12	6	62,11
8,00	60	15	8	76,36
10,00	75	20	10	110,69
12,00	75	20	12	136,13
14,00	90	25	14	197,84
16,00	100	25	16	247,01
18,00	100	30	18	364,56
20,00	100	30	20	384,81

* 

FMT81: Fresa a 4 taglienti, taglio al centro, elica variabile con rivestimento TiAlSiN.
Il suo angolo ad elica variabile minimizza le vibrazioni e, insieme al rivestimento TiAlSiN, permette un rendimento estremamente elevato.

CONDIZIONI DI TAGLIO INDICATIVE

		Ø 2	Ø 3	Ø 4	Ø 5	Ø 6	Ø 8	Ø 10	Ø 12	Ø 14	Ø 16	Ø 20	Ø 25
44 HRc	RPM	5600	3640	2800	2240	1820	1400	1120	924	798	700	560	420
	AVANZ. (mm/min)	70	77	77	77	77	77	77	77	77	91	91	70
INOX Ti	RPM	11200	7420	5600	4480	3640	2800	2240	1820	1540	1400	1120	840
	AVANZ. (mm/min)	77	77	77	77	84	84	84	84	84	98	98	77
Ni	RPM	11200	7420	5600	4480	3640	2800	2240	1820	1540	1400	1120	840
	AVANZ. (mm/min)	77	77	77	77	84	84	84	84	84	98	98	77

FRESE TORICHE DI METALLO DURO

NEW

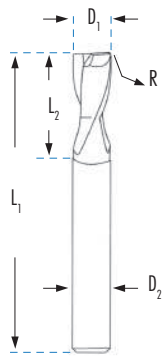
Ref. FMG10R
Ref. FMG54R

TORICO PER USO GENERALE | **MD** | 30° | R | **CILINDRICO** | **TiAlN** | **2 Z** | **4 Z** | Micro Grana MD

						FMG10R		FMG54R	
					MATERIALE	MD		MD	
					FINITURA	TiAlN		TiAlN	
					QUALITÀ	★★		★★★	
						2Z		4Z	
D_1 mm	D_2 mm	R mm	L_2 mm	L_1 mm		€		€	
2	6	0,2	6	50	FMG100200R0,2	27,39	FMG540200R0,2	27,39
2	6	0,5	6	50	FMG100200R0,5	27,39	FMG540200R0,5	27,39
3	6	0,2	8	50	FMG100300R0,2	27,39	FMG540300R0,2	27,39
3	6	0,5	8	50	FMG100300R0,5	27,39	FMG540300R0,5	27,39
4	6	0,2	11	50	FMG100400R0,2	27,39	FMG540400R0,2	27,39
4	6	0,5	11	50	FMG100400R0,5	27,39	FMG540400R0,5	27,39
4	6	1,0	11	50	FMG100400R1	27,39	FMG540400R1	27,39
5	6	0,2	12	50	FMG100500R0,2	27,39	FMG540500R0,2	27,39
5	6	0,5	12	50	FMG100500R0,5	27,39	FMG540500R0,5	27,39
5	6	1,0	12	50	FMG100500R1	27,39	FMG540500R1	27,39
6	6	0,2	12	50	FMG100600R0,2	27,39	FMG540600R0,2	27,39
6	6	0,5	13	50	FMG100600R0,5	27,39	FMG540600R0,5	27,39
6	6	1,0	13	50	FMG100600R1	27,39	FMG540600R1	27,39
6	6	1,5	13	50	FMG100600R1,5	27,39	FMG540600R1,5	27,39
6	6	2,0	13	50	FMG100600R2	27,39	FMG540600R2	27,39
8	8	0,2	15	60	FMG100800R0,2	37,70	FMG540800R0,2	37,70
8	8	0,5	15	60	FMG100800R0,5	37,70	FMG540800R0,5	37,70
8	8	1,0	15	60	FMG100800R1	37,70	FMG540800R1	37,70
8	8	1,5	15	60	FMG100800R1,5	37,70	FMG540800R1,5	37,70
8	8	2,0	15	60	FMG100800R2	37,70	FMG540800R2	37,70
10	10	0,5	20	72	FMG101000R0,5	51,91	FMG541000R0,5	51,91
10	10	1,0	20	72	FMG101000R1	51,91	FMG541000R1	51,91
10	10	1,5	20	72	FMG101000R1,5	51,91	FMG541000R1,5	51,91
10	10	2,0	20	72	FMG101000R2	51,91	FMG541000R2	51,91
10	10	3,0	20	72	FMG101000R3	51,91	FMG541000R3	51,91
12	12	0,5	24	75	FMG101200R0,5	73,32	FMG541200R0,5	73,32
12	12	1,0	24	75	FMG101200R1	73,32	FMG541200R1	73,32
12	12	1,5	24	75	FMG101200R1,5	73,32	FMG541200R1,5	73,32
12	12	2,0	24	75	FMG101200R2	73,32	FMG541200R2	73,32
12	12	3,0	24	75	FMG101200R3	73,32	FMG541200R3	73,32
16	16	0,5	30	92	FMG101600R0,5	137,63	FMG541600R0,5	137,63
16	16	1,0	30	92	FMG101600R1	137,63	FMG541600R1	137,63
16	16	2,0	30	92	FMG101600R2	137,63	FMG541600R2	137,63
16	16	3,0	30	92	FMG101600R3	137,63	FMG541600R3	137,63
16	16	4,0	30	92	FMG101600R4	137,63	FMG541600R4	137,63



FMG10R FMG54R





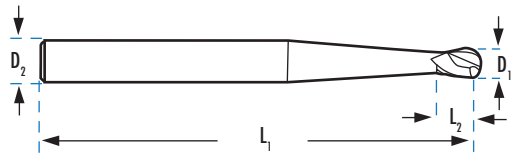
FRESE IN METALLO DURO MICROMETRICHE CON E SENZA COLLO

NEW
Ref. FMD22
Ref. FMD35

USO GENERALE MICRO | MD | 30° N | CILINDRICO | TiAlN | 2 Z | Micro Grana MD

SENZA COLLO

44 HRc





	TOL -0,015	TOL h6			FMD22
	D_1 mm	D_2 mm	L_2 mm	L_1 mm	€
FMD220020X04	0,2	4	0,4	50	38,57
FMD220030X06	0,3	4	0,6	50	36,78
FMD220040X08	0,4	4	0,8	50	34,41
FMD220050X10	0,5	4	1,0	50	32,50
FMD220060X12	0,6	4	1,2	50	32,50
FMD220070X14	0,7	4	1,4	50	32,50
FMD220080X16	0,8	4	1,6	50	32,50
FMD220090X18	0,9	4	1,8	50	32,50



FRESE SFERICA

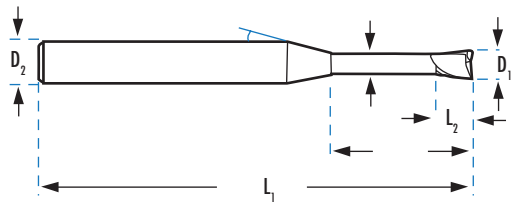


	TOL -0,015	TOL h6			FMD35
	D_1 mm	D_2 mm	L_2 mm	L_1 mm	€
FMD350020X04	0,2	4	0,4	50	48,45
FMD350030X06	0,3	4	0,6	50	44,63
FMD350040X08	0,4	4	0,8	50	39,09
FMD350050X10	0,5	4	1,0	50	37,21
FMD350060X12	0,6	4	1,2	50	37,21
FMD350070X14	0,7	4	1,4	50	37,21
FMD350080X16	0,8	4	1,6	50	37,21
FMD350090X18	0,9	4	1,8	50	37,21



CON COLLO

44 HRc





	TOL -0,015	TOL h6					FMD22
	D_1 mm	D_2 mm	D_3 mm	L_3 mm	L_2 mm	L_1 mm	€
FMD220050X04	0,5	4	0,48	4	0,7	50	34,58
FMD220500X06	0,5	4	0,48	6	0,7	50	34,58
FMD220060X04	0,6	4	0,57	4	0,9	50	34,58
FMD220060X06	0,6	4	0,57	6	0,9	50	34,58
FMD220060X08	0,6	4	0,57	8	0,9	50	34,58
FMD220080X06	0,8	4	0,76	6	1,2	50	34,58
FMD220080X08	0,8	4	0,76	8	1,2	50	34,58
FMD220080X10	0,8	4	0,76	10	1,2	50	34,58
FMD220120X06	1,2	4	1,15	6	1,8	50	23,40
FMD220120X08	1,2	4	1,15	8	1,8	50	23,40
FMD220120X10	1,2	4	1,15	10	1,8	50	23,40



FRESE SFERICA



	TOL -0,015	TOL h6					FMD35
	D_1 mm	D_2 mm	D_3 mm	L_3 mm	L_2 mm	L_1 mm	€
FMD350050X04	0,5	4	0,48	4	0,7	50	41,86
FMD350050X06	0,5	4	0,48	6	0,7	50	41,86
FMD350060X04	0,6	4	0,57	4	0,9	50	41,86
FMD350060X06	0,6	4	0,57	6	0,9	50	41,86
FMD350060X08	0,6	4	0,57	8	0,9	50	41,86
FMD350080X06	0,8	4	0,76	6	1,2	50	41,86
FMD350080X08	0,8	4	0,76	8	1,2	50	41,86
FMD350080X10	0,8	4	0,76	10	1,2	50	41,86
FMD350120X06	1,2	4	1,15	6	1,8	50	24,44
FMD350120X08	1,2	4	1,15	8	1,8	50	24,44
FMD350120X10	1,2	4	1,15	10	1,8	50	24,44



FRESE IN METALLO DURO CON COLLO

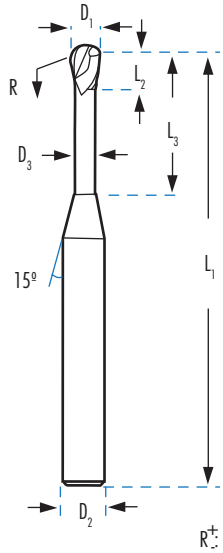
NEW
Ref. FMD22
Ref. FMD44
Ref. FMD35

USO GENERALE MICRO | MD | 30° | CILINDRICO | TiAlN | Ø 1-5 mm | Micro Grana MD



						FMD22		FMD44		FMD35	
MATERIALE						MD		MD		MD	
FINITURA						TiAlN		TiAlN		TiAlN	
QUALITÀ						★★		★★★		★★	
						2Z		4Z		2Z	
D_1 mm	D_2 mm	D_3 mm	L_3 mm	L_2 mm	L_1 mm		€		€		€
1,0	6	0,95	5	1,5	57	FMD220100X05	32,07	FMD440100X05		FMD350100X05	32,85
1,0	6	0,95	8	1,5	57	FMD220100X08	32,07	FMD440100X08		FMD350100X08	33,80
1,0	6	0,95	10	1,5	57	FMD220100X10	32,07	FMD440100X10		FMD350100X10	33,80
1,0	6	0,95	12	1,5	65	FMD220100X12	33,80	FMD440100X12		FMD350100X12	35,36
1,0	6	0,95	15	1,5	65	FMD220100X15	33,80	FMD440100X15		FMD350100X15	35,36
1,0	6	0,95	20	1,5	65	FMD220100X20	33,80	FMD440100X20		FMD350100X20	35,36
1,5	6	1,42	5	2,0	57	FMD220150X05	32,07	FMD440150X05		FMD350150X05	33,80
1,5	6	1,42	8	2,0	57	FMD220150X08	32,07	FMD440150X08		FMD350150X08	33,80
1,5	6	1,42	10	2,0	57	FMD220150X10	32,07	FMD440150X10		FMD350150X10	33,80
1,5	6	1,42	12	2,0	65	FMD220150X12	33,80	FMD440150x12		FMD350150X12	35,36
1,5	6	1,42	15	2,0	65	FMD220150X15	33,80	FMD440150X15		FMD350150X15	35,36
1,5	6	1,42	20	2,0	65	FMD220150X20	33,80	FMD440150X20		FMD350150X20	35,36
1,5	6	1,42	25	2,0	65	FMD220150X25	33,80	FMD440150X25		FMD350150X25	-
2,0	6	1,92	6	3,0	57	FMD220200X06	32,07	FMD440200X06	32,07	FMD350200X06	33,80
2,0	6	1,92	8	3,0	57	FMD220200X08	32,07	FMD440200X08	32,07	FMD350200X08	33,80
2,0	6	1,92	10	3,0	57	FMD220200X10	32,07	FMD440200X10	32,07	FMD350200X10	33,80
2,0	6	1,92	12	3,0	60	FMD220200X12	32,93	FMD440200X12	32,93	FMD350200X12	33,80
2,0	6	1,92	14	3,0	65	FMD220200X14	33,80	FMD440200X14	33,80	FMD350200X14	33,80
2,0	6	1,92	16	3,0	65	FMD220200X16	33,80	FMD440200X16	33,80	FMD350200X16	34,63
2,0	6	1,92	20	3,0	65	FMD220200X20	33,80	FMD440200X20	33,80	FMD350200X20	34,63
2,0	6	1,92	25	3,0	65	FMD220200X25	33,80	FMD440200X25	33,80	FMD350200X25	34,63
2,0	6	1,92	30	3,0	80	FMD220200X30	41,08	FMD440200X30	41,08	FMD350200X30	42,55
2,0	6	1,92	35	2,0	80	FMD220200X35	41,08	FMD440200X35	41,08	FMD350200X35	42,55
2,0	6	1,92	40	3,0	80	FMD220200X40	41,08	FMD440200X40	41,08	FMD350200X40	42,90
2,0	6	1,92	50	3,0	100	FMD220200X50	44,20	FMD440200X50	44,20	FMD350200X50	46,77
2,5	6	2,40	10	4,0	57	FMD220250X10	32,07	FMD440250X10	32,07	FMD350250X10	-
2,5	6	2,40	16	4,0	65	FMD220250X16	33,80	FMD440250X16	33,80	FMD350250X16	-
2,5	6	2,40	20	4,0	65	FMD220250X20	33,80	FMD440250X20	33,80	FMD350250X20	34,63
2,5	6	2,40	30	4,0	80	FMD220250X30	41,08	FMD440250X30	41,08	FMD350250X30	42,90
2,5	6	2,40	40	4,0	80	FMD220250X40	41,08	FMD440250X40	41,08	FMD350250X40	42,90
3,0	6	2,90	9	5,0	57	FMD220300X09	32,07	FMD440300X09	32,07	FMD350300X09	34,63
3,0	6	2,90	12	5,0	60	FMD220300X12	32,93	FMD440300X12	32,93	FMD350300X12	34,63
3,0	6	2,90	15	5,0	65	FMD220300X15	33,80	FMD440300X15	33,80	FMD350300X15	34,63
3,0	6	2,90	20	5,0	65	FMD220300X20	33,80	FMD440300X20	33,80	FMD350300X20	34,63
3,0	6	2,90	25	5,0	65	FMD220300X25	33,80	FMD440300X25	33,80	FMD350300X25	35,36
3,0	6	2,90	30	5,0	80	FMD220300X30	41,08	FMD440300X30	41,08	FMD350300X30	42,90
3,0	6	2,90	35	5,0	80	FMD220300X35	41,08	FMD440300X35	41,08	FMD350300X35	42,90
3,0	6	2,90	40	5,0	80	FMD220300X40	41,08	FMD440300X40	41,08	FMD350300X40	42,90
3,0	6	2,90	50	5,0	100	FMD220300X50	44,20	FMD440300X50	44,20	FMD350300X50	46,77
4,0	6	3,90	10	6,0	57	FMD220400X10	32,07	FMD440400X10	32,07	FMD350400X10	33,80
4,0	6	3,90	12	6,0	60	FMD220400X12	32,93	FMD440400X12	32,93	FMD350400X12	34,63
4,0	6	3,90	16	6,0	65	FMD220400X16	33,80	FMD440400X16	33,80	FMD350400X16	34,63
4,0	6	3,90	20	6,0	65	FMD220400X20	33,80	FMD440400X20	33,80	FMD350400X20	34,63
4,0	6	3,90	25	6,0	65	FMD220400X25	33,80	FMD440400X25	33,80	FMD350400X25	35,36
4,0	6	3,90	30	6,0	80	FMD220400X30	41,08	FMD440400X30	41,08	FMD350400X30	42,90
4,0	6	3,90	35	6,0	80	FMD220400X35	41,08	FMD440400X35	41,08	FMD350400X35	42,90
4,0	6	3,90	40	6,0	80	FMD220400X40	41,08	FMD440400X40	41,08	FMD350400X40	42,90
4,0	6	3,90	50	6,0	100	FMD220400X50	44,20	FMD440400X50	44,20	FMD350400X50	46,77
5,0	6	4,80	12	7,0	60	FMD220500X12	32,93	FMD440500X12	32,93	FMD350500X12	-
5,0	6	4,80	20	7,0	65	FMD220500X20	33,80	FMD440500X20	33,80	FMD350500X20	34,63
5,0	6	4,80	30	7,0	80	FMD220500X30	41,08	FMD440500X30	41,08	FMD350500X30	42,90
5,0	6	4,80	40	7,0	80	FMD220500X40	41,08	FMD440500X40	41,08	FMD350500X40	42,90
5,0	6	4,80	50	7,0	100	FMD220500X50	44,20	FMD440500X50	44,20	FMD350500X50	46,77





R^{+}_{-} 0,01 mm

FRESE FRONTALI IN MD INTEGRALE SGROSSATURA MEDIA

NM | USO GENERALE | MD | 45° | CILINDRICO | TiAlN

56 HRc

SERIE CORTA



D_1 mm TOL D_1 +0 -0,05	D_2 mm TOL D_2 h6	L_1 mm	L_2 mm	Z	FMD3 €
6	6	50	16	4	35,85
8	8	60	19	4	48,58
10	10	75	22	4	74,76
12	12	75	26	4	102,61
16	16	92	32	4	233,43
20	20	100	38	4	349,80

SERIE LUNGA

NEW



D_1 mm TOL D_1 +0 -0,05	D_2 mm TOL D_2 h6	L_1 mm	L_2 mm	Z	FMD43 €
6	6	80	25	4	51,95
8	8	90	35	4	72,59
10	10	100	45	4	110,55
12	12	100	50	4	146,00
16	16	150	65	4	337,03
20	20	150	70	4	515,70

FRESE FRONTALI IN MD INTEGRALE SGROSSATURA FINE E GROSSA

NF | USO GENERALE | MD | 30° | CILINDRICO

NR | USO GENERALE | MD | 30° | CILINDRICO

56 HRc



D_1 mm TOL D_1 +0 -0,05	D_2 mm TOL D_2 h6	L_1 mm	L_2 mm	Z	FMD1 €
6	6	63	19	3	29,03 *
8	8	63	19	3	31,16 *
12	12	75	25	4	50,31 *
16	16	88	32	4	86,09 *
20	20	100	38	4	100,77 *

*Fino ad esaurimento scorte.

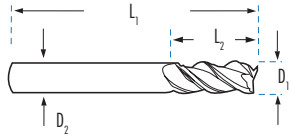


D_1 mm TOL D_1 +0 -0,05	D_2 mm TOL D_2 h6	L_1 mm	L_2 mm	Z	FMD6 €
6	6	63	19	3	29,03 *
8	8	63	19	3	31,16 *
12	12	75	25	4	50,31 *
16	16	88	32	4	86,09 *
20	20	100	38	4	100,77

*Fino ad esaurimento scorte.

FRESA 2 DENTI, SERIE CORTA, ELICA A 30°

Ref. FMG10 | INOX | Ti | 55 HRc | MD | 30° | CILINDRICO | TiAlN | 2 Z | Micro Grana MD



SERIE CORTA

GIRI E AVANZAMENTO

<30 HRc		30-45 HRc		INOX	
R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min
21.500	170	12.900	101	10.750	84
15.000	180	9.000	107	7.500	89
11.560	190	7.560	120	6.300	90
8.920	210	5.560	140	4.620	120
7.560	300	4.620	180	3.880	150
6.300	320	3.780	190	3.160	160
5.560	350	3.360	220	2.840	180
4.880	385	2.940	220	2.470	180
4.200	380	2.520	200	2.100	180
3.730	375	2.260	190	1.890	180
3.260	330	2.000	160	1.680	160
2.740	280	1.680	130	1.360	130
2.470	265	1.520	125	1.210	125
2.200	220	1.360	110	1.060	110
1.680	170	1.060	80	840	80
1.360	130	840	70	680	60

FMG10

	TOL -0,03	TOL h6			
	D_1 mm	D_2 mm	L_1 mm	L_2 mm	€
FMG100100	1,0	6	40	2,5	25,99*
FMG100150	1,5	6	40	4,0	25,99*
FMG100200	2,0	6	50	6,0	38,62
FMG100300	3,0	6	50	8,0	38,62
FMG100400	4,0	6	50	11,0	38,62
FMG100500	5,0	6	50	12,0	38,62
FMG100600	6,0	6	50	12,0	38,62
FMG100700	7,0	8	60	16,0	35,78*
FMG100800	8,0	8	60	15,0	53,15
FMG100900	9,0	10	70	19,0	49,27*
FMG101000	10,0	10	72	20,0	73,20
FMG101200	12,0	12	75	24,0	103,39
FMG101400	14,0	14	85	26,0	119,86*
FMG101600	16,0	16	92	30,0	194,05
FMG102000	20,0	20	105	38,0	155,40*
FMG102500	25,0	25	120	45,0	202,30*



*Fino ad esaurimento scorte.

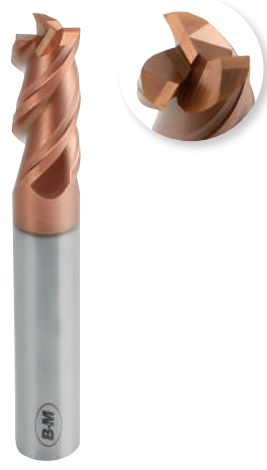
FRESA 3 DENTI, SERIE CORTA, ELICA VARIABILE

Ref. FMD67 | INOX | Ti | 55 HRc | MD | 35° 38° | CILINDRICO | TiAlSiN | 3 Z | Micro Grana MD

SERIE CORTA

FMD67

	TOL e8	TOL h6			
	D_1 mm	D_2 mm	L_1 mm	L_2 mm	€
FMD670300	3	6	50	8	32,66
FMD670400	4	6	50	11	32,66
FMD670500	5	6	50	13	32,66
FMD670600	6	6	50	16	32,66
FMD670800	8	8	60	19	41,18
FMD671000	10	10	73	22	60,84
FMD671200	12	12	75	26	82,99
FMD671400	14	14	85	30	148,11
FMD671600	16	16	92	32	161,62
FMD672000	20	20	100	38	238,37



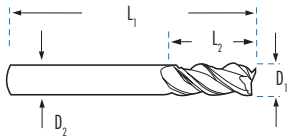
Fresa a 3 taglienti, taglio centrale, elica variabile con rivestimento TiAlSiN.
Il suo angolo d'elica variabile riduce al minimo le vibrazioni e, insieme al rivestimento TiAlSiN, offre prestazioni di lavorazione molto precise.

FRESA 4 DENTI, SERIE CORTA, ELICA VARIABILE

Ref. FMG12

INOX | INOX AISI 316L | Ti | INC | 55 HRc | MD | 35° 38° | TiAlSiN | 4 Z | Micro Grana MD

SERIE CORTA



GIRI E AVANZAMENTO

<30 HRc		30-45 HRc		INOX	
R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min
11.560	280	7.560	170	6.300	140
10.240	300	6.560	185	5.460	155
8.920	320	5.560	200	4.620	170
7.560	570	4.620	350	3.880	280
6.300	600	3.780	360	3.160	300
5.560	660	3.360	410	2.840	330
4.200	710	2.520	380	2.100	350
3.730	660	2.260	340	1.890	325
3.260	610	2.000	300	1.680	300
2.740	520	1.680	250	1.360	240
2.470	465	1.520	225	1.210	220
2.200	410	1.360	200	1.060	200
1.940	365	1.210	180	950	175
1.680	320	1.060	160	840	150

FMG12

	TOL -0,03	TOL h6			
	D_1 mm	D_2 mm	L_1 mm	L_2 mm	€
FMG120200	2,0	6	40	*6	21,98*
FMG120250	2,5	6	40	*8	21,98*
FMG120300	3,0	6	50	8	32,66
FMG120400	4,0	6	50	11	32,66
FMG120500	5,0	6	50	13	32,66
FMG120600	6,0	6	50	16	32,66
FMG120800	8,0	8	60	19	41,18
FMG120900	9,0	10	70	*19	40,95*
FMG121000	10,0	10	73	22	60,84
FMG121200	12,0	12	75	26	82,99
FMG121400	14,0	14	85	30	113,36
FMG121600	16,0	16	92	32	161,62
FMG121800	18,0	18	92	38	238,37
FMG122000	20,0	20	100	38	238,37





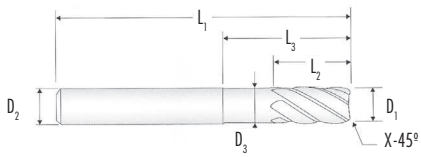
*Fino ad esaurimento scorte.

Fresa per materiali ad alta durezza. Fresa a 4 taglienti, taglio centrale, elica variabile con rivestimento TiAlSiN.
Il suo angolo d'elica variabile riduce al minimo le vibrazioni e, insieme al rivestimento TiAlSiN, offre prestazioni di lavorazione molto precise.

FRESE 4 DENTI AD ELICA VARIABILE

Ref. FMG83

INOX | INOX AISI 316L | Ti | INC | MD | X-45º | 43° 45° | TiAlSiN | 4 Z | Micro Grana MD



GIRI E AVANZAMENTO

INOX AISI 316L		INOX AISI 304	
R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min
10.185	195	14.260	205
7.600	250	14.260	255
6.110	310	8.655	310
5.095	360	7.130	360
3.820	435	5.345	465
3.055	590	4.275	585
2.545	565	3.565	565
2.180	520	3.055	520
1.910	480	2.670	480
1.525	470	2.140	470

FMG83

	TOL -0,03	TOL h6					
	D_1 mm	D_2 mm	L_1 mm	L_2 mm	L_3 mm	X-45º	€
FMG830300	3,0	6	57	8	11	0,07	55,21
FMG830400	4,0	6	57	11	14	0,09	55,21
FMG830500	5,0	6	57	13	16	0,12	55,21
FMG830600	6,0	6	57	13	21	0,20	55,21
FMG830800	8,0	8	63	19	27	0,25	70,73
FMG831000	10,0	10	73	22	32	0,35	103,25
FMG831200	12,0	12	83	26	38	0,40	139,16
FMG831400	14,0	14	84	30	40	0,40	199,71
FMG831600	16,0	16	92	32	44	0,40	234,54
FMG832000	20,0	20	104	38	55	0,40	370,81





Fresa per materiali ad alto contenuto di nichel. Fresa a 4 tagli, taglio centrale con smusso a 45º nel taglio, elica variabile con rivestimento TiAlSiN.
Il suo angolo d'elica variabile riduce al minimo le vibrazioni e, insieme al rivestimento TiAlSiN, offre prestazioni di lavorazione molto precise.

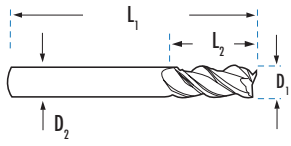
FRESA MULTIUSO

NEW

Ref. FMG80

MULTI MATERIALE TOP | 56 HRc | MD | 43° 45° | CILINDRICO | TiAlN | 4 Z | Micro Grana MD

SERIE CORTA





	TOL e8	TOL h6					FMG80
	D_1 mm	D_2 mm	D_3 mm	L_1 mm	L_2 mm	L_3 mm	€
FMG800300	3	6	8	20	0,05	57	36,66
FMG800400	4	6	11	20	0,05	57	36,66
FMG800500	5	6	13	21	0,07	57	36,66
FMG800600	6	6	13	21	0,10	57	36,66
FMG800800	8	8	19	27	0,15	63	44,81
FMG801000	10	10	22	32	0,15	73	65,00
FMG801200	12	12	26	38	0,25	83	92,25
FMG801400	14	14	30	40	0,30	84	117,26
FMG801600	16	16	32	44	0,35	92	164,49
FMG801800	20	20	38	55	0,35	104	242,32

Fresa a 4 taglienti, taglio centrale, elica variabile con rivestimento TiALN.
Il suo angolo d'elica variabile riduce al minimo le vibrazioni e, insieme al rivestimento TiAlN, offre prestazioni di lavorazione molto precise.

FRESA SFERICA 4 TAGLIENTI PER STAMPISTI

NEW

Ref. FMG86

STAMPISTI | INOX | Ti | 65 HRc | MD | 38° | CILINDRICO | TiAlSiN | 4 Z | Micro Grana MD

SERIE CORTA



	TOL e8	TOL h6			FMG86
	D_1 mm	D_2 mm	L_1 mm	L_2 mm	€
FMG860600	6	6	8	50	33,28
FMG860600X80	6	6	8	80	43,65
FMG860600X100	6	6	8	100	48,07
FMG860600X150	6	6	8	150	63,34
FMG860800	8	8	10	60	42,61
FMG860800X100	8	8	10	100	60,39
FMG860800X150	8	8	10	150	81,52
FMG861000	10	10	13	72	62,99
FMG861000X100	10	10	13	100	86,79
FMG861000X150	10	10	13	150	115,72
FMG861000X200	10	10	13	200	162,52
FMG861200	12	12	15	75	86,27
FMG861200X100	12	12	15	100	121,56
FMG861200X150	12	12	15	150	169,26
FMG861200X200	12	12	15	200	198,41

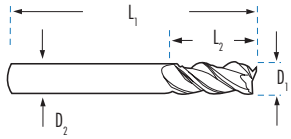
FRESA 6 DENTI, ELICA A 45°

Ref. FMG14

INOX | 65 HRc | Ti | MD | 45° | TiAlN | 6 Z

Materiali molto duri
Acciai temperati.

Micro Grana MD



SERIE CORTA

GIRI E AVANZAMENTO

<30 HRc		30-45 HRc		INOX		INC	
R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min
8.900	2.670	5.760	1.555	4.850	1.310	2.100	370
7.560	2.260	4.800	1.440	4.100	1.230	1.800	325
6.300	2.090	4.050	1.215	3.700	1.180	1.580	300
5.560	2.000	3.880	1.370	3.370	1.100	1.350	280
4.200	2.000	2.940	1.370	2.490	1.100	1.000	280
3.360	2.000	2.320	1.370	1.920	1.100	440	280
2.840	1.680	2.000	1.160	1.610	1.000	400	250
2.470	1.470	1.740	1.020	1.380	885	355	220
2.100	1.260	1.480	880	1.160	770	310	190
1.890	1.130	1.320	785	1.030	695	280	170
1.680	1.010	1.160	690	900	920	250	155
1.500	900	1.100	600	850	540	220	135

FMG14

	TOL -0,03	TOL h6			
	D1 mm	D2 mm	L1 mm	L2 mm	€
FMG140300 4Z	3,0	3	38	8	24,53
FMG140400 4Z	4,0	4	50	11	27,14
FMG140500 4Z	5,0	5	50	13	34,32
FMG140600	6,0	6	50	16	35,21
FMG140800	8,0	8	60	19	49,25
FMG141000	10,0	10	75	22	68,69
FMG141200	12,0	12	75	26	100,58
FMG141400	14,0	14	90	32	129,82
FMG141600	16,0	16	100	32	177,13
FMG141800	18,0	18	100	38	205,60
FMG142000	20,0	20	100	38	256,50
FMG142500	25,0	25	100	38	437,21





SERIE LUNGA

GIRI E AVANZAMENTO

<30 HRc		30-45 HRc		INOX		INC	
R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min
8.900	2.670	5.760	1.555	4.850	1.310	2.100	370
7.560	2.260	4.800	1.440	4.100	1.230	1.800	325
6.300	2.090	4.050	1.215	3.700	1.180	1.580	300
5.560	2.000	3.880	1.370	3.370	1.100	1.350	280
4.200	2.000	2.940	1.370	2.490	1.100	1.000	280
3.360	2.000	2.320	1.370	1.920	1.100	440	280
2.840	1.680	2.000	1.160	1.610	1.000	400	250
2.840	1.680	2.000	1.160	1.610	1.000	400	250
2.470	1.470	1.740	1.020	1.380	885	355	220
2.100	1.260	1.480	880	1.160	770	310	190
2.100	1.260	1.480	880	1.160	770	310	190
1.680	1.010	1.160	690	900	920	250	155
1.680	1.010	1.160	690	900	920	250	155
1.680	1.010	1.160	690	900	920	250	155
1.500	900	1.100	600	850	540	220	135
1.500	900	1.100	600	850	540	220	135
1.500	900	1.100	600	850	540	220	135

FMG25

	TOL -0,03	TOL h6			
	D1 mm	D2 mm	L1 mm	L2 mm	€
FMG250300 4Z	3,0	3	60	15	24,18
FMG250400 4Z	4,0	4	80	20	27,25
FMG250500 4Z	5,0	5	80	25	31,29
FMG250600	6,0	6	80	25	37,94
FMG250800	8,0	8	90	35	55,41
FMG251000	10,0	10	100	45	75,00
FMG251200	12,0	12	100	50	107,15
FMG251200X125	12,0	12	125	70	132,67
FMG251400	14,0	14	150	65	145,65
FMG251600	16,0	16	150	65	187,15
FMG251600X165	16,0	16	165	100	213,60
FMG252000	20,0	20	150	70	276,78
FMG252000X165	20,0	20	165	100	319,26
FMG252000X200	20,0	20	200	135	408,06
FMG252500	25,0	25	150	75	532,10
FMG252500X165	25,0	25	165	100	616,06
FMG252500X200	25,0	25	200	140	690,82
FMG253200	32,0	32	165	100	863,55
FMG253200X210	32,0	32	210	150	1.036,13

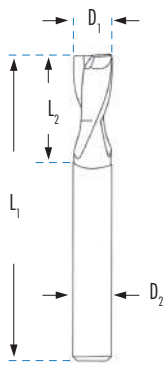




FRESA 2 E 3 DENTI, SERIE CORTA, ELICA A 45°, PER ALLUMINIO

Al | Cu | PVC | 45° N | CILINDRICO | 2 Z | Ref. FMD59 | 3 Z | Ref. FMD33 | Micro Grana MD

SERIE CORTA







GIRI E AVANZAMENTO									FMD59		FMD33
		Al	TOL -0,05	TOL h6					2 Z		3 Z
R.P.M. rot./min	AVANZ. 1 mm/min	AVANZ. 2 mm/min	D_1 mm	D_2 mm	L_1 mm	L_2 mm			€		€
10.000	700	900	3,0	6,0	50	8	FMD590300	**27,60**	FMD330300	**27,60**
10.000	900	1.100	4,0	6,0	50	11	FMD590400	**29,90**	FMD330400	**29,90**
10.000	1.000	1.300	5,0	6,0	50	13	FMD590500	**30,89**	FMD330500	**30,89**
10.000	1.200	1.500	6,0	6,0	50	16	FMD590600	**35,07**	FMD330600	**35,07**
8.000	1.400	1.800	8,0	8,0	60	19	FMD590800	**49,97**	FMD330800	**49,97**
8.000	1.700	2.100	10,0	10,0	72	25	FMD591000	**73,47**	FMD331000	**73,47**
8.000	2.100	2.600	12,0	12,0	75	30	FMD591200	**97,07**	FMD331200	**97,07**
6.000	1.800	2.200	14,0	14,0	84	35	FMD591400	**136,23**	FMD331400	**136,23**
6.000	1.900	2.400	16,0	16,0	92	40	FMD591600	**172,80**	FMD331600	**172,80**
4.000	1.600	1.900	20,0	20,0	100	45	FMD592000	**284,99**	FMD332000	**284,99**

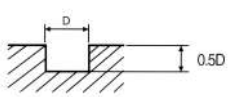
TOLLERANZE SECONDO DIN 7160 E 7161

Gamma di tolleranze **µm** / Diametro nominale in mm

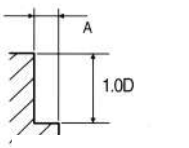
	da 1 a 3	da 3 a 6	da 6 a 10	da 10 a 18	da 18 a 30
TOL h10	0 - 40	0 - 48	0 - 58	0 - 70	0 - 84
TOL h6	0 - 6	0 - 8	0 - 9	0 - 11	0 - 13

Al

AVANZ. 1



AVANZ. 2



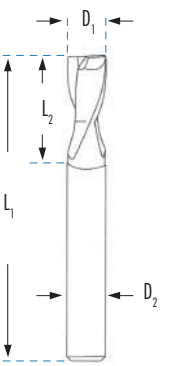
A: ϕ3 ~ ϕ10 = 0.25×D
ϕ12 ~ ϕ20 = 0.5×D

FRESA 2 E 3 DENTI, SERIE LUNGA, ELICA A 45º, PER ALLUMINIO

NEW

Al | Cu | PVC | 45° N | CILINDRICO | 2 Z | Ref. FMD69 | 3 Z | Ref. FMD23 | Micro Grana MD

SERIE LUNGA







GIRI E AVANZAMENTO								FMD69		FMD23
		Al	TOL -0,05	TOL h6				2 Z		3 Z
R.P.M. rot./min	AVANZ. 1 mm/min	AVANZ. 2 mm/min	D_1 mm	D_2 mm	L_1 mm	L_2 mm		€		€
10.000	1.200	1.500	6,0	6,0	80	25	FMD690600	**40,33**	FMD230600	**40,33**
8.000	1.400	1.800	8,0	8,0	90	35	FMD690800	**57,47**	FMD230800	**57,47**
8.000	1.700	2.100	10,0	10,0	100	45	FMD691000	**84,49**	FMD231000	**84,49**
8.000	2.100	2.600	12,0	12,0	100	50	FMD691200	**111,63**	FMD231200	**111,63**
6.000	1.800	2.200	14,0	14,0	165	65	FMD691400	**156,66**	FMD231400	**156,66**
6.000	1.900	2.400	16,0	16,0	150	65	FMD691600	**198,72**	FMD231600	**198,72**
4.000	1.600	1.900	20,0	20,0	150	70	FMD692000	**327,74**	FMD232000	**327,74**

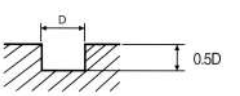
TOLLERANZE SECONDO DIN 7160 E 7161

Gamma di tolleranze **µm** / Diametro nominale in mm

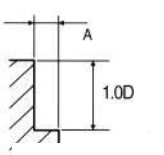
	da 1 a 3	da 3 a 6	da 6 a 10	da 10 a 18	da 18 a 30
TOL h10	0 - 40	0 - 48	0 - 58	0 - 70	0 - 84
TOL h6	0 - 6	0 - 8	0 - 9	0 - 11	0 - 13

Al

AVANZ. 1



AVANZ. 2



A : ϕ3 ~ ϕ10 = 0.25×D
ϕ12 ~ ϕ20 = 0.5×D

FRESA 2 DENTI SFERICA, SERIE CORTA E LUNGA, ELICA A 45º, PER ALLUMINIO

NEW

Al | Cu | PVC | 40° N | CILINDRICO | 2 Z

Ref. FMD93
Ref. FMD94

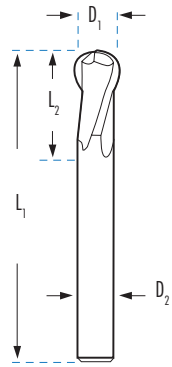
Micro Grana MD

SERIE CORTA

GIRI E AVANZAMENTO

Al			TOL -0,05	TOL h6				FMD93 2 Z
R.P.M. rot./min	AVANZ. 1 mm/min	AVANZ. 2 mm/min	D_1 mm	D_2 mm	L_1 mm	L_2 mm		€
10.000	700	900	3,0	6,0	50	6	FMD930300	**25,20**
10.000	900	1.100	4,0	6,0	50	8	FMD930400	**28,72**
10.000	1.000	1.300	5,0	6,0	50	10	FMD930500	**30,38**
10.000	1.200	1.500	6,0	6,0	50	12	FMD930600	**35,75**
8.000	1.400	1.800	8,0	8,0	60	15	FMD930800	**44,13**
8.000	1.700	2.100	10,0	10,0	72	20	FMD931000	**66,32**
8.000	2.100	2.600	12,0	12,0	75	24	FMD931200	**82,39**
6.000	1.800	2.200	14,0	14,0	83	26	FMD931400	**121,97**
6.000	1.900	2.400	16,0	16,0	92	30	FMD931600	**154,32**
4.000	1.600	1.900	20,0	20,0	100	40	FMD932000	**237,86**



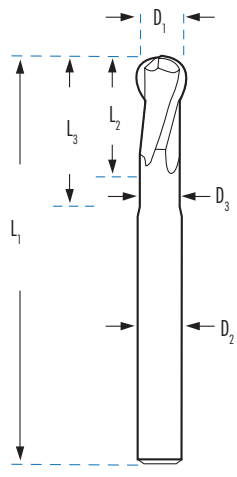


SERIE LUNGA

GIRI E AVANZAMENTO

Al			TOL -0,05	TOL h6						FMD94 2 Z
R.P.M. rot./min	AVANZ. 1 mm/min	AVANZ. 2 mm/min	D_1 mm	D_2 mm	D_3 mm	L_3 mm	L_1 mm	L_2 mm		€
10.000	1.200	1.500	6,0	6,0	5,5	35	80	12	FMD940600	**42,33**
8.000	1.400	1.800	8,0	8,0	7,5	35	90	15	FMD940800	**47,06**
8.000	1.700	2.100	10,0	10,0	9,5	45	100	20	FMD941000	**75,00**
8.000	2.100	2.600	12,0	12,0	11,5	50	100	24	FMD941200	**94,47**
6.000	1.900	2.400	16,0	16,0	15,5	92	150	30	FMD941600	**185,21**
4.000	1.600	1.900	20,0	20,0	19,5	92	150	40	FMD942000	**270,23**



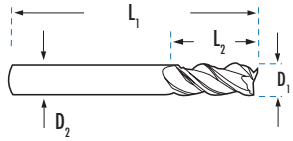


FRESA 3 A 4 DENTI, SERIE CORTA, ELICA A 50°

Ref. FMG13

INOX | 45 HRc | Ti | INC | MD | 50° | WELDON | TiAlN | 3-4 Z | Micro Grana MD

SERIE CORTA



GIRI E AVANZAMENTO

R.P.M. rot./min	AVANZ. mm/min (<30 HRc)	R.P.M. rot./min	AVANZ. mm/min (30-45 HRc)	R.P.M. rot./min	AVANZ. mm/min (INOX)	R.P.M. rot./min	AVANZ. mm/min (INC)
4.200	310	2.520	180	2.100	160	920	40
3.260	310	2.000	140	1.680	140	740	40
2.740	250	1.680	120	1.370	120	620	30
2.200	200	1.360	100	1.050	100	460	25
1.940	175	1.210	85	950	85	410	20
1.680	150	1.060	70	840	70	350	20
1.360	115	840	60	670	60	300	15

FMG13

	TOL -0,03 D1 mm	TOL h6 D2 mm	L1 mm	L2 mm	Z	€
FMG130800	8,0	8	60	19	3	30,99*
FMG131000	10,0	10	70	22	3	45,78*
FMG131200	12,0	12	75	25	3	62,74*
FMG131600	16,0	16	90	32	3	103,96*
FMG131800	18,0	18	90	32	3	121,54*
FMG132000	20,0	20	100	28	4	137,83*
FMG132500	25,0	25	120	45	4	220,44*

*Fino ad esaurimento scorte.



NOTA: Nelle operazioni di fresatura ad una faccia conviene aumentare l'avanzamento del 30%, mantenendo le stesse RPM.

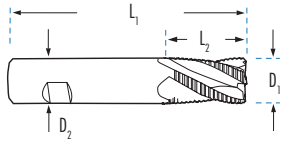
TOLLERANZE SECONDO DIN 7160 E 7161

Gamma di tolleranze **µm** / Diametro nominale in mm

	da 1 a 3	da 3 a 6	da 6 a 10	da 10 a 18	da 18 a 30
TOL e8	- 14 - 28	- 20 - 38	- 25 - 47	- 32 - 59	- 40 - 73
TOL h6	0 - 6	0 - 8	0 - 9	0 - 11	0 - 13

FRESE 3 A 5 DENTI, SGROSSATURA FINE

NF | INOX | Ref. FMG15 | Ref. FMG16 | 45 HRc | Ti | INC | MD | 30° | WELDON | TiAlN | Micro Grana MD



SERIE CORTA

GIRI E AVANZAMENTO

<30 HRc		30-45 HRc		INOX		INC	
R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min
15.600	2.320	12.400	840	8.400	570	2.400	190
13.600	2.320	10.800	840	7.350	570	2.100	190
11.600	2.320	9.200	840	6.300	570	1.800	190
10.400	2.320	8.400	840	5.700	570	1.550	190
9.200	2.320	7.600	840	5.100	570	1.300	190
8.000	2.400	6.000	800	4.200	570	1.200	190
6.800	2.400	5.200	840	3.600	570	900	130
6.000	2.400	4.800	760	3.300	510	800	110
4.800	2.160	3.600	560	2.400	360	660	100
4.300	2.150	3.200	620	2.160	410	600	100

FMG15

	TOL h10	TOL h6				
	D_1 mm	D_2 mm	L_1 mm	L_2 mm	Z	€
FMG150600	6,0	6	54	7	3	23,07*
FMG150700	7,0	8	58	8	3	26,96*
FMG150800	8,0	8	58	9	3	26,96*
FMG150900	9,0	10	66	13	4	40,20*
FMG151000	10,0	10	66	14	4	40,20*
FMG151200	12,0	12	73	16	4	51,57*
FMG151400	14,0	14	75	18	4	62,55*
FMG151600	16,0	16	82	22	4	83,93*
FMG152000	20,0	20	92	26	4	121,49*
FMG152500	25,0	25	110	25	5	189,26*

*Fino ad esaurimento scorte.



SERIE LUNGA

GIRI E AVANZAMENTO

<30 HRc		30-45 HRc		INOX		INC	
R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min
13.600	2.320	10.800	840	7.350	570	2.100	190
11.600	2.320	9.200	840	6.300	570	1.800	190
9.200	2.320	7.600	840	5.100	570	1.300	190
6.800	2.400	5.200	840	3.600	570	900	130
6.000	2.400	4.800	760	3.300	510	800	110
4.800	2.160	3.600	560	2.400	360	660	100
4.300	2.150	3.200	620	2.160	410	600	100

FMG16

	TOL h10	TOL h6				
	D_1 mm	D_2 mm	L_1 mm	L_2 mm	Z	€
FMG160700	7,0	8	63	16	3	28,97*
FMG160800	8,0	8	63	16	3	28,97*
FMG161000	10,0	10	72	22	4	43,21*
FMG161400	14,0	14	83	26	4	67,24*
FMG161600	16,0	16	92	32	4	90,23*
FMG162000	20,0	20	104	38	4	130,63*
FMG162500	25,0	25	121	45	5	203,50*

*Fino ad esaurimento scorte.

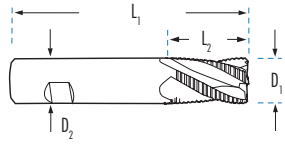


TOLLERANZE SECONDO DIN 7160 E 7161

Gamma di tolleranze µm / Diametro nominale in mm	da 1 a 3	da 3 a 6	da 6 a 10	da 10 a 18	da 18 a 30
TOL e8	0 - 40	0 - 48	0 - 58	0 - 70	0 - 84
TOL h6	0 - 6	0 - 8	0 - 9	0 - 11	0 - 13

FRESA 4 A 6 DENTI, SERIE CORTA, ELICA A 45°, SGROSSATURA FINE

NF | INOX | Ref. FMG17 | 45 HRc | INC | MD | 45° | WELDON | TiAlN | 4-6 Z | Micro Grana MD



SERIE CORTA

GIRI E AVANZAMENTO

<30 HRc		30-45 HRc		INOX		INC	
R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min
11.600	2.320	9.200	840	6.300	570	1.800	190
8.000	2.400	6.000	800	4.200	570	1.200	190
6.000	2.400	4.800	760	3.300	510	800	110
4.800	2.160	3.600	560	2.400	360	660	100

FMG17

	TOL h10	TOL h6				
	D1 mm	D2 mm	L1 mm	L2 mm	Z	€
FMG170800	8,0	8	58	9	4	26,96*
FMG171200	12,0	12	73	16	4	51,57*
FMG171600	16,0	16	82	22	5	83,93*
FMG172000	20,0	20	92	26	6	107,99*

*Fino ad esaurimento scorte.



FRESA 3 A 6 DENTI, SERIE LUNGA, ELICA A 45°, SGROSSATURA FINE

NF | INOX | Ref. FMG18 | 45 HRc | INC | MD | 45° | WELDON | TiAlN | 3-6 Z | Micro Grana MD

SERIE LUNGA

GIRI E AVANZAMENTO

<30 HRc		30-45 HRc		INOX		INC	
R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min
20.100	4.600	18.400	1.700	12.600	1.040	3.800	399
15.600	2.320	12.400	840	8.400	570	2.400	190
13.600	2.320	10.800	840	7.350	570	2.100	190
11.600	2.320	9.200	840	6.300	570	1.800	190
9.200	2.320	7.600	840	5.100	570	1.300	190
6.800	2.400	5.200	840	3.600	570	900	130
6.000	2.400	4.800	760	3.300	510	800	110
4.800	2.160	3.600	560	2.400	360	660	100
4.300	2.150	3.200	620	2.160	410	600	100

FMG18

	TOL h10	TOL h6				
	D1 mm	D2 mm	L1 mm	L2 mm	Z	€
FMG180400	4,0	6	57	11	3	24,07*
FMG180600	6,0	6	57	16	4	24,07*
FMG180700	7,0	8	63	16	4	28,13*
FMG180800	8,0	8	63	16	4	28,13*
FMG181000	10,0	10	72	22	4	41,95*
FMG181400	14,0	14	83	26	5	65,28*
FMG181600	16,0	16	92	32	5	87,61*
FMG182000	20,0	20	104	38	6	140,91*
FMG182500	25,0	25	121	45	6	246,97*

*Fino ad esaurimento scorte.

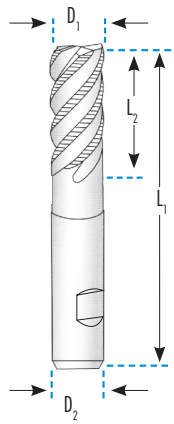


FRESA 4 A 6 DENTI, SERIE LUNGA, ELICA A 45°, SGROSSATURA FINE

NF | INOX | Ref. FMG19 | INC | 45 HRc | MD | 45° | WELDON | TiAlN | 4-6 Z | Micro Grana MD

SERIE LUNGA





	TOL h10	TOL h6						FMG19
	D_1 mm	D_2 mm	D_3 mm	L_1 mm	L_2 mm	L_3 mm	Z	€
FMG190600	6,0	6	5,5	57	16	20	4	**29,72***
FMG190800	8,0	8	7,5	63	16	26	4	**34,74***
FMG191000	10,0	10	9,5	72	22	31	4	**51,82***
FMG191200	12,0	12	11,5	83	26	37	4	**66,49***
FMG191600	16,0	16	15,5	100	32	51	5	**86,66***
FMG192000	20,0	20	19,2	110	38	59	6	**139,31***

*Fino ad esaurimento scorte.

GIRI E AVANZAMENTO

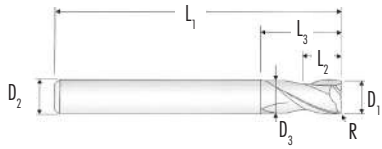
	<30 HRc		30-45 HRc		INOX		INC
R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min
15.600	2.320	12.400	840	8.400	570	2.400	190
11.600	2.320	9.200	840	6.300	570	1.800	190
9.200	2.320	7.600	840	5.100	570	1.300	190
8.000	2.400	6.000	800	4.200	570	1.200	190
6.000	2.400	4.800	760	3.300	510	800	110
4.800	2.160	3.600	560	2.400	360	660	100

TOLLERANZE SECONDO DIN 7160 E 7161

Gamma di tolleranze µm / Diametro nominale in mm	da 1 a 3	da 3 a 6	da 6 a 10	da 10 a 18	da 18 a 30
TOL h10	0 - 40	0 - 48	0 - 58	0 - 70	0 - 84
TOL h6	0 - 6	0 - 8	0 - 9	0 - 11	0 - 13

FRESA 2 DENTI PER ACCIAI DA TEMPRA ESTREMA 70HRC

70 HRc — Ref. FMG01 — MD — 30° — CILINDRICO — BLUE — 2 Z — Micro Grana MD



GIRI E AVANZAMENTO

50-55 HRc		55-60 HRc		60-65 HRc		65-70 HRc	
R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min
25.500	360	20.500	215	16.000	135	12.500	88
21.500	390	17.500	240	13.500	150	11.000	102
11.500	420	9.500	260	7.500	160	6.400	115
10.150	430	8.350	270	6.550	165	5.575	118
8.800	440	7.200	270	5.600	170	4.750	118
8.550	470	6.800	280	5.350	175	4.600	125
6.900	480	5.300	280	4.200	180	3.700	130
4.100	415	3.200	240	2.550	155	2.200	112
3.500	415	2.650	240	2.100	155	1.860	112
2.600	365	2.000	210	1.600	135	1.400	98
2.050	335	1.600	295	1.300	125	1.100	88

FMG01

	TOL Speciale	TOL h6						
	D1 mm	D2 mm	D3 mm	L1 mm	L2 mm	L3 mm	R	€
FMG010100	1,0	3	-	40	1,5	-	0,1	17,54*
FMG010150	1,5	3	-	40	2,2	-	0,1	17,54*
FMG010300	3,0	6	2,9	45	4,0	7	0,1	23,24*
FMG010350	3,5	6	3,3	45	5,0	9	0,1	23,24*
FMG010400	4,0	6	3,8	45	5,0	9	0,1	23,24*
FMG010450	4,5	6	4,3	45	6,0	10	0,1	23,24*
FMG010600	6,0	6	5,8	50	7,0	14	0,2	23,24*
FMG011000	10,0	10	9,7	75	12,0	25	0,2	43,92*
FMG011200	12,0	12	11,7	75	15,0	30	0,3	60,56*
FMG011600	16,0	16	15,7	90	18,0	38	0,3	100,97*
FMG012000	20,0	20	19,7	100	24,0	45	0,3	133,56*



*Fino ad esaurimento scorte.

FRESA 4 DENTI PER ACCIAI DA TEMPRA ESTREMA 70HRC

70 HRc — Ref. FMG04 — MD — 30° — CILINDRICO — BLUE — 4 Z — Micro Grana MD

GIRI E AVANZAMENTO

50-55 HRc		55-60 HRc		60-65 HRc		65-70 HRc	
R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min	R.P.M. rot./min	AVANZ. mm/min
25.500	710	20.500	430	16.000	270	12.500	175
21.500	775	17.500	475	13.500	295	11.000	200
17.500	840	14.500	520	11.000	320	9.500	230
11.500	840	9.500	520	7.500	320	6.400	230
10.150	860	8.350	530	6.550	328	5.575	240
8.800	880	7.200	540	5.600	335	4.750	240
8.550	940	6.800	560	5.350	353	4.600	255
6.900	950	5.300	560	4.200	350	3.700	260
4.100	840	3.200	480	2.550	310	2.200	220
3.500	840	2.650	480	2.100	300	1.860	220
2.600	730	2.000	420	1.600	270	1.400	200
2.050	650	1.600	380	1.300	250	1.100	180

FMG04

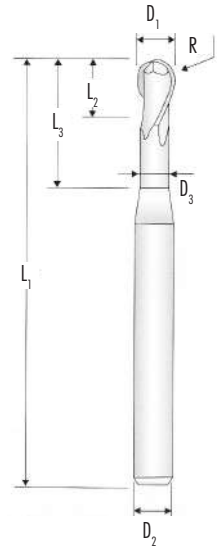
	TOL Speciale	TOL h6						
	D1 mm	D2 mm	D3 mm	L1 mm	L2 mm	L3 mm	R	€
FMG040100	1,0	3	-	40	1,5	-	0,1	17,54*
FMG040150	1,5	3	-	40	2,2	-	0,1	17,54*
FMG040200	2,0	3	1,9	40	3,0	6	0,1	15,91*
FMG040300	3,0	6	2,9	45	4,0	7	0,1	23,24*
FMG040350	3,5	6	3,3	45	5,0	9	0,1	23,24*
FMG040400	4,0	6	3,8	45	5,0	9	0,1	23,24*
FMG040450	4,5	6	4,3	45	6,0	10	0,1	23,24*
FMG040600	6,0	6	5,8	50	7,0	14	0,2	23,24*
FMG041000	10,0	10	9,7	75	12,0	25	0,2	43,92*
FMG041200	12,0	12	11,7	75	15,0	30	0,3	60,56*
FMG041600	16,0	16	15,7	90	18,0	38	0,3	100,97*
FMG042000	20,0	20	19,7	100	24,0	45	0,3	133,56*



*Fino ad esaurimento scorte.

FRESA 2 DENTI SEMISFERICA PER ACCIAI DA TEMPRA ESTREMA 70HRC

70 HRc | Ref. FMG02 | MD | 30° | CILINDRICO | BLUE | 2 Z | Micro Grana MD





SERIE CORTA

GIRI E AVANZAMENTO

R.P.M. rot./min	50-55 HRc AVANZ. mm/min	R.P.M. rot./min	55-60 HRc AVANZ. mm/min	R.P.M. rot./min	60-65 HRc AVANZ. mm/min	R.P.M. rot./min	65-70 HRc AVANZ. mm/min
57.000	4.000	54.000	3.400	51.000	2.700	48.000	2.300
48.500	4.000	44.500	3.275	41.500	2.750	38.250	2.300
40.000	4.000	35.000	3.150	32.000	2.800	28.500	2.300
26.500	4.000	23.500	3.150	21.000	2.800	19.000	2.300
15.000	3.750	13.500	3.050	11.500	2.550	10.500	2.100
11.000	3.100	10.000	2.500	8.800	2.150	8.000	1.750
9.000	2.700	8.000	2.150	7.000	1.850	6.500	1.550
7.500	2.400	6.600	1.900	5.800	1.650	5.300	1.380
5.600	1.900	5.000	1.550	4.400	1.250	4.000	1.050
5.000	1.800	4.500	1.450	3.950	1.125	3.600	950
4.000	1.600	3.600	1.275	3.150	900	2.875	750
3.600	1.500	3.200	1.200	2.800	800	2.550	660
-	-	-	-	-	-	-	-

FMG02

	TOL Speciale / TOL h6 D1 mm	D2 mm	D3 mm	L1 mm	L2 mm	L3 mm	TOL R R	€
FMG020100	1,0	4	0,95	50	1,0	2,2	0,5	28,92*
FMG020150	1,5	4	1,40	50	1,5	3,0	0,8	28,92*
FMG020200	2,0	4	1,90	50	2,0	4,0	1,0	27,46*
FMG020300	3,0	6	2,90	60	3,0	6,0	1,5	27,46*
FMG020500	5,0	6	4,90	80	5,0	10,0	2,5	29,55*
FMG020600	6,0	6	5,90	90	6,0	12,0	3,0	31,69*
FMG020800	8,0	8	7,90	100	8,0	16,0	4,0	49,45*
FMG021000	10,0	10	9,90	100	10,0	20,0	5,0	81,55*
FMG021200	12,0	12	11,90	110	12,0	24,0	6,0	104,68*
FMG021400	14,0	14	13,80	110	14,0	28,0	7,0	105,90*
FMG021800	18,0	18	17,80	140	18,0	36,0	9,0	150,96*
FMG022000	20,0	20	19,80	160	20,0	40,0	10,0	213,94*
FMG022500	25,0	25	24,80	180	25,0	50,0	12,5	346,80*

*Fino ad esaurimento scorte.

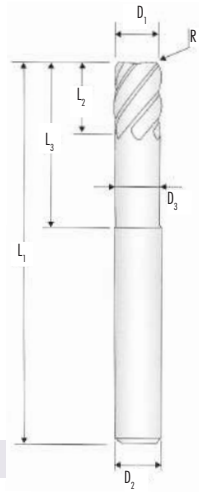
TOLLERANZE SECONDO DIN 7160 E 7161

Gamma di tolleranze **µm** / Diametro nominale in mm

	da 1 a 3	da 3 a 6	da 6 a 10	da 10 a 18	da 18 a 30
TOL Speciale	0 / - 12	0 / - 12	0 / - 15	0 / - 15	0 / - 15
TOL h6	0 / - 6	0 / - 8	0 / - 9	0 / - 11	0 / - 13
TOL R	0 / - 5	0 / - 10	0 / - 10	0 / - 10	0 / - 10

FRESE 6 DENTI PER ACCIAI DA TEMPRA ESTREMA 70HRC

70 HRc | Ref. FMG06 | MD | 45° | CILINDRICO | BLUE | 6 Z | Micro Grana MD





SERIE CORTA

GIRI E AVANZAMENTO

50-55 HRc		55-60 HRc		60-65 HRc		65-70 HRc	
R.P.M. rot./min	AVANZ. 1 mm/min	R.P.M. rot./min	AVANZ. 1 mm/min	R.P.M. rot./min	AVANZ. 1 mm/min	R.P.M. rot./min	AVANZ. 1 mm/min
12.000	4.600	10.000	3.100	8.000	2.000	6.000	1.400
9.500	4.100	8.000	2.900	6.400	1.800	4.800	1.300
8.000	3.800	6.600	2.500	5.300	1.600	4.000	1.150

FMG06

	TOL Speciale	TOL h6					TOL R	
	D1 mm	D2 mm	D3 mm	L1 mm	L2 mm	L3 mm	R	€
FMG060800	8,0	8	7,65	60	8	24	0,5	39,65*
FMG061000	10,0	10	9,65	70	10	30	1,0	61,85*
FMG061200	12,0	12	11,60	75	12	30	1,0	73,88*

*Fino ad esaurimento scorte.

SERIE LUNGA

GIRI E AVANZAMENTO

50-55 HRc		55-60 HRc		60-65 HRc		65-70 HRc	
R.P.M. rot./min	AVANZ. 1 mm/min	R.P.M. rot./min	AVANZ. 1 mm/min	R.P.M. rot./min	AVANZ. 1 mm/min	R.P.M. rot./min	AVANZ. 1 mm/min
16.000	4.900	13.500	3.300	10.500	2.100	8.000	1.450
12.000	4.600	10.000	3.100	8.000	2.000	6.000	1.400
9.500	4.100	8.000	2.900	6.400	1.800	4.800	1.300
8.000	3.800	6.600	2.500	5.300	1.600	4.000	1.150
8.000	3.800	6.600	2.500	5.300	1.600	4.000	1.150
6.000	3.400	5.000	2.300	4.000	1.250	3.000	870
6.000	3.400	5.000	2.300	4.000	1.250	3.000	870
4.800	3.200	4.000	2.100	3.200	1.020	2.400	690
4.800	3.200	4.000	2.100	3.200	1.020	2.400	690
4.800	3.200	4.000	2.100	3.200	1.020	2.400	690

FMG07

	TOL Speciale	TOL h6				
	D1 mm	D2 mm	L1 mm	L2 mm	R	€
FMG070600	6,0	6	70	13	0,5	37,77*
FMG070800	8,0	8	90	19	0,5	47,34*
FMG071000	10,0	10	100	22	0,5	71,32*
FMG071200	12,0	12	110	26	0,5	97,28*
FMG071201	12,0	12	110	26	1,0	108,95*
FMG071600	16,0	16	130	32	1,0	131,24*
FMG071601	16,0	16	130	32	1,5	143,33*
FMG072000	20,0	20	140	38	1,0	192,06*
FMG072001	20,0	20	140	38	1,5	209,81*
FMG072002	20,0	20	140	38	2,0	209,81*

*Fino ad esaurimento scorte.

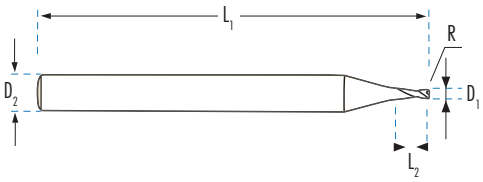
TOLLERANZE SECONDO DIN 7160 E 7161

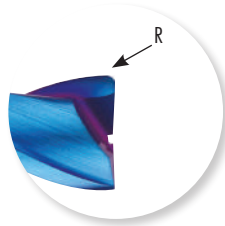
Gamma di tolleranze **µm** / Diametro nominale in mm

	da 1 a 3	da 3 a 6	da 6 a 10	da 10 a 18	da 18 a 30
TOL Speciale	0 - 12	0 - 12	0 - 15	0 - 15	0 - 15
TOL h6	0 - 6	0 - 8	0 - 9	0 - 11	0 - 13

FRESE PER ACCIAI DA TEMPRA ESTREMA 70HRC, TECNOLOGIA DI MICROFRESATURA PEZZI DI PRECISIONE

70 HRc | Ref. FMG09 | MD | 30° | CILINDRICO | BLUE | 2 Z | TOL D_1 -0,012 | TOL D_2 h6 | Micro Grana MD



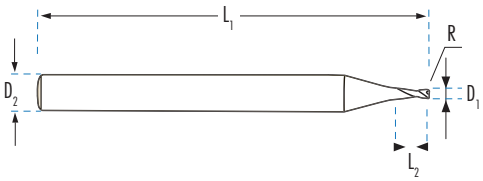


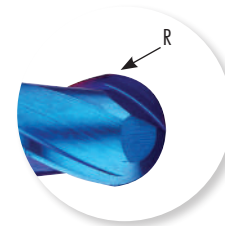


	D_1 mm	D_2 mm	L_1 mm	L_2 mm	R	FMG09 €
FMG090040	0,40	6	50	0,60	-	63,50*
FMG090050	0,50	6	50	0,70	0,05	55,24*
FMG090060	0,60	6	50	0,90	0,05	53,14*
FMG090080	0,80	6	50	1,20	0,05	48,97*
FMG090100	1,00	6	50	1,50	0,10	46,93*
FMG090120	1,20	6	50	1,80	0,10	46,93*
FMG090150	1,50	6	50	2,20	0,15	46,93*
FMG090200	2,00	6	50	2,20	0,15	42,53*

*Fino ad esaurimento scorte.

70 HRc | Ref. FMG08 | MD | 30° | CILINDRICO | BLUE | 2 Z | TOL D_1 -0,012 | TOL D_2 h6 | Micro Grana MD







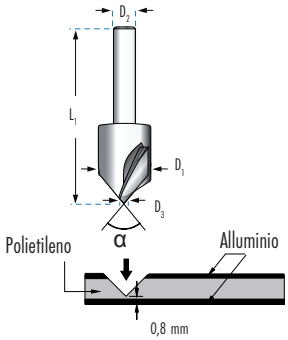
	D_1 mm	D_2 mm	L_1 mm	L_2 mm	R	FMG08 €
FMG080040	0,40	6	50	0,40	0,20	68,68*
FMG080050	0,50	6	50	0,50	0,25	63,40*
FMG080060	0,60	6	50	0,60	0,30	58,13*
FMG080080	0,80	6	50	0,80	0,40	47,41*
FMG080100	1,00	6	50	1,00	0,50	44,64*
FMG080120	1,20	6	50	1,20	0,60	44,64*
FMG080150	1,50	6	50	1,50	0,75	44,64*
FMG080200	2,00	6	50	2,00	1,00	40,45*

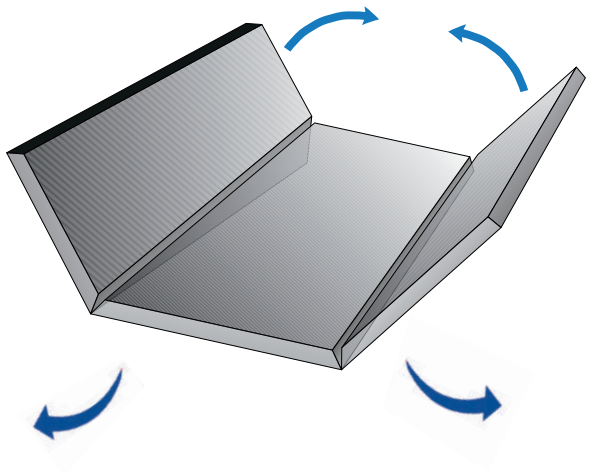
*Fino ad esaurimento scorte.

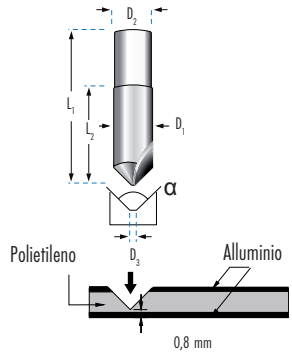
FRESE SPECIALI PER ALUCOBOND

Ref. **FFALUC** — **PMD**

Ref. **FFALUC...MDI** — **MDI**







CON PLACCHETTA SALDATA



FFALUC

	D1 mm	D2 mm	D3 mm	L1 mm	α	€
FFALUC1600	16,00	8	2,5	55	90º	**235,54**
FFALUC1800	18,00	8	2,5	55	90º	**248,06**
FFALUC2000	20,00	8	2,5	55	90º	**264,49**
FFALUC1600-135	16,00	8	2,3	55	135º	**235,54**
FFALUC1800-135	18,00	8	2,3	55	135º	**248,06**
FFALUC2000-135	20,00	8	2,3	55	135º	**264,49**

IN METALLO DURO INTEGRALE

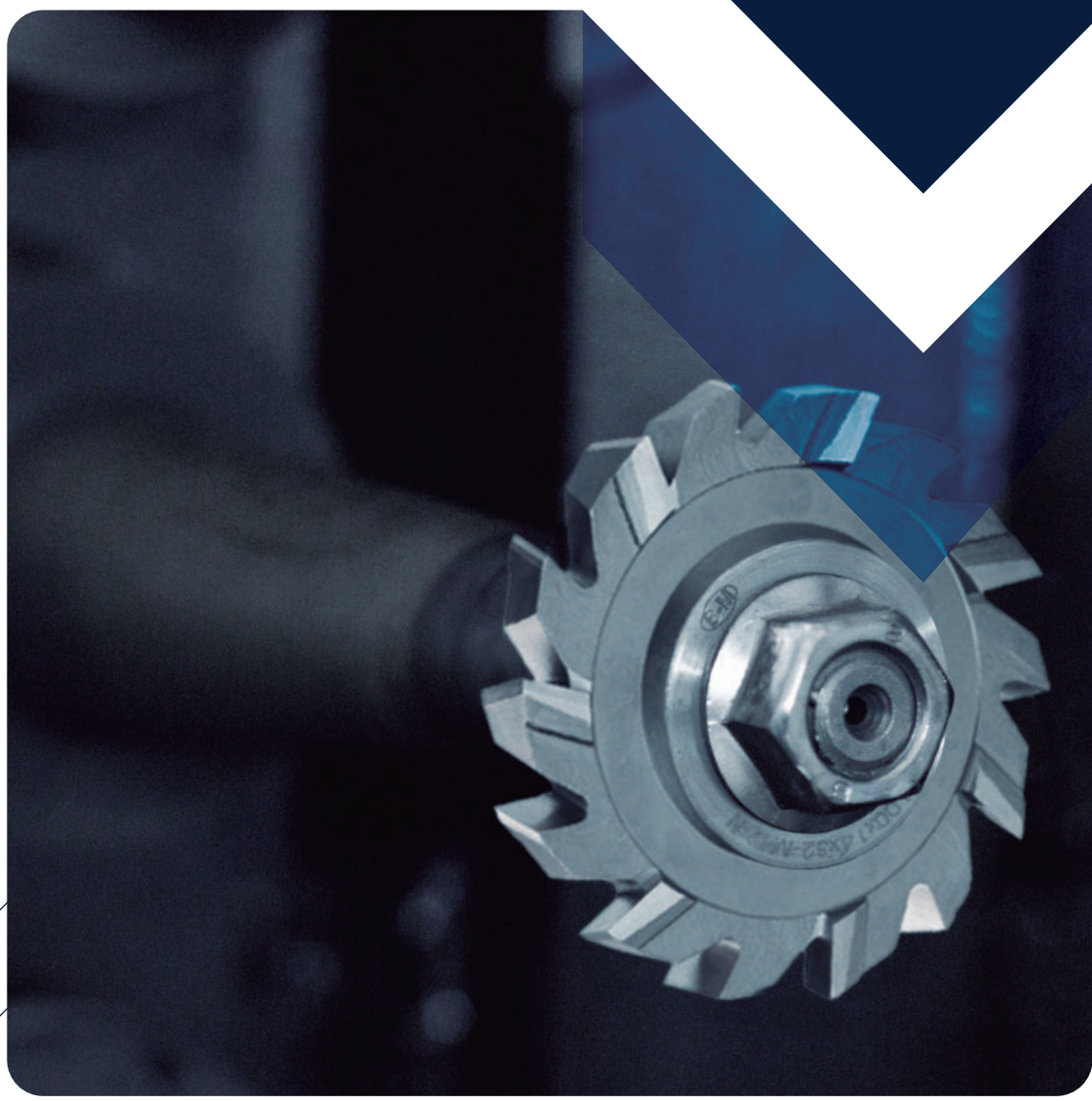


FFALUC...MDI

	D1 mm	D2 mm	D3 mm	L1 mm	L2 mm	α	€
FFALUC1400MDI	14,00	14	2,5	50	14	90º	**140,90**
FFALUC1600MDI	16,00	16	2,5	50	16	90º	**160,35**
FFALUC1800MDI	18,00	18	2,5	50	18	90º	**184,97**
FFALUC1400MDI-135	14,00	14	0,5	50	14	135º	**140,90** *
FFALUC1600MDI-135	16,00	16	0,5	50	16	135º	**160,35** *
FFALUC1800MDI-135	18,00	18	0,5	50	18	135º	**184,97** *

*Fino ad esaurimento scorte.

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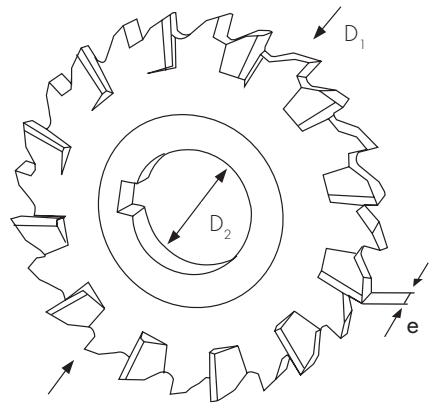
FRESE SCALANARE

FRESA PER SCANALARE HSSCO A 3 TAGLIENTI CON DENTATURA ALTERNATA

Ref. FF56

HSSCo **DIN 885A**





D1 mm	e mm	D2 mm	Z	FF56 €
50	4,0	16	12	105,51
50	5,0	16	12	105,51
50	6,0	16	12	122,26
50	8,0	16	12	119,07
50	10,0	16	12	131,11
63	1,6	22	16	225,97
63	2,0	22	16	200,06
63	2,5	22	16	204,24
63	3,0	22	16	209,84
63	4,0	22	12	121,74
63	5,0	22	12	121,74
63	6,0	22	12	125,18
63	8,0	22	12	136,42
63	10,0	22	12	146,79
63	12,0	22	12	156,73
63	14,0	22	12	168,81
63	16,0	22	12	177,69
63	18,0	22	12	212,30
80	1,6	27	20	225,86
80	2,0	27	20	219,38
80	2,5	27	20	223,04
80	3,0	27	20	218,61
80	4,0	27	20	261,53
80	5,0	27	14	165,39
80	6,0	27	14	169,29
80	8,0	27	14	178,66
80	10,0	27	14	191,20
80	12,0	27	14	204,67
80	14,0	27	14	218,86
80	16,0	27	14	223,91
80	18,0	27	14	240,19
80	20,0	27	14	264,10

D1 mm	e mm	D2 mm	Z	FF56 €
100	1,6	32	24	270,18
100	2,0	32	24	268,72
100	2,5	32	24	268,46
100	3,0	32	24	260,64
100	4,0	32	24	281,00
100	5,0	32	24	297,89
100	6,0	32	16	232,49
100	8,0	32	16	237,39
100	10,0	32	16	246,11
100	12,0	32	16	265,06
100	14,0	32	16	291,82
100	16,0	32	16	306,08
100	18,0	32	16	337,40
100	20,0	32	16	337,40
100	22,0	32	16	378,21
100	25,0	32	16	411,41
125	1,6	32	16	341,68
125	2,0	32	16	328,64
125	2,5	32	16	336,81
125	3,0	32	16	345,01
125	4,0	32	16	369,62
125	5,0	32	16	395,65
125	6,0	32	16	405,42
125	8,0	32	18	366,68
125	10,0	32	18	376,25
125	12,0	32	18	390,51
125	14,0	32	18	424,08
125	16,0	32	18	450,31
125	18,0	32	18	476,31
125	20,0	32	18	506,77
125	22,0	32	18	577,03
125	25,0	32	18	582,62
125	28,0	32	18	636,80

D1 mm	e mm	D2 mm	Z	FF56 €
160	2,0	40	30	549,95
160	2,5	40	30	529,44
160	3,0	40	30	539,61
160	4,0	40	30	570,19
160	5,0	40	30	603,81
160	6,0	40	30	648,33
160	8,0	40	30	739,99
160	10,0	40	22	607,78
160	12,0	40	22	607,78
160	14,0	40	22	604,80
160	16,0	40	22	661,90
160	18,0	40	22	697,44
160	20,0	40	22	715,92
160	22,0	40	22	786,91
160	25,0	40	22	852,66
160	28,0	40	22	937,29
160	32,0	40	22	1.002,15
200	12,0	40	24	927,11
200	14,0	40	24	936,18
200	16,0	40	24	964,48
200	18,0	40	24	1.011,95
200	20,0	40	24	1.082,29
200	22,0	40	24	1.085,85
200	25,0	40	24	1.259,55
200	28,0	40	24	1.299,37
200	32,0	40	24	1.620,51

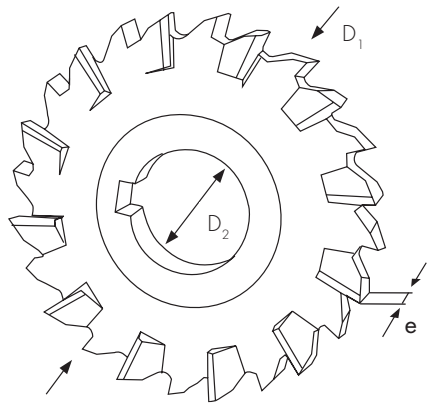
FRESA PER SCANALARE HSSCO A 3 TAGLIENTI CON DENTATURA DRITTA



Ref. FF59

HSSCo **DIN 885B**





				FF59
D1 mm	e mm	D2 mm	Z	€
50	4	16	16	105,18
50	5	16	16	105,18
50	6	16	16	121,90
50	8	16	16	118,72
50	10	16	16	130,73
63	4	22	18	122,53
63	5	22	18	122,53
63	6	22	18	124,16
63	8	22	18	134,98
63	10	22	18	145,25
63	12	22	18	155,57
63	14	22	18	167,54
63	16	22	18	177,22
63	18	22	18	211,66
80	5	27	20	164,82
80	6	27	20	169,17
80	8	27	20	178,52
80	10	27	20	190,57
80	12	27	20	204,04
80	14	27	20	218,20
80	16	27	20	223,87
80	18	27	20	240,15
80	20	27	20	264,05

				FF59
D1 mm	e mm	D2 mm	Z	€
100	6	32	22	230,13
100	8	32	22	236,66
100	10	32	22	245,32
100	12	32	22	264,20
100	14	32	22	290,88
100	16	32	22	308,17
100	18	32	22	337,33
100	20	32	22	337,33
100	22	32	22	377,07
100	25	32	22	412,48
125	8	32	24	366,46
125	10	32	24	376,02
125	12	32	24	390,28
125	14	32	24	423,84
125	16	32	24	445,60
125	18	32	24	476,16
125	20	32	24	506,63
125	22	32	24	576,88
125	25	32	24	582,47
125	28	32	24	636,60

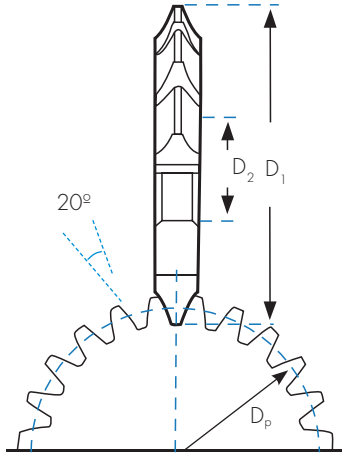
				FF59
D1 mm	e mm	D2 mm	Z	€
160	10	40	28	607,60
160	12	40	28	607,60
160	14	40	28	604,64
160	16	40	28	661,70
160	18	40	28	697,25
160	20	40	28	715,72
160	22	40	28	786,68
160	25	40	28	852,43
160	28	40	28	937,02
160	32	40	28	1.001,86
200	12	40	30	926,84
200	14	40	30	935,92
200	16	40	30	964,22
200	18	40	30	1.011,67
200	20	40	30	1.081,98
200	22	40	30	1.085,55
200	25	40	30	1.259,21
200	28	40	30	1.299,01
200	32	40	30	1.620,07

FRESA A MODULO PER INGRANAGGI

Ref. 99RFM

HSS





MODULO FRESA	D1 mm	D2 mm	99RFM €
0,50	40	16	131,56
0,70	40	16	131,56
0,75	40	16	131,56
0,80	40	16	131,56
1,00	50	16	131,56
1,25	50	16	131,56
1,50	56	22	135,10
1,75	56	22	135,10
2,00	63	22	135,10
2,25	63	22	158,33
2,50	63	22	158,33
2,75	71	27	158,33
3,00	71	27	158,33
3,25	71	27	208,94
3,50	80	27	208,94
3,75	80	27	208,94
4,00	80	27	208,94
4,50	90	32	286,37
5,00	90	32	286,37
6,00	100	32	362,61
7,00	100	32	362,61

NUMERO FRESA / DENTI

Nº1	Nº2	Nº3	Nº4	Nº5	Nº6	Nº7	Nº8	Set
12-13	14-16	17-20	21-25	26-34	35-54	55-134	135-∞	12-∞

NOTA: Il prezzo dipende dal modulo, indipendentemente dal nº di denti.

$$M = Dp / Z$$
$$M = P \times \pi$$

M=Modulo
Dp=Diametro primitivo
Z=Nº di denti
P=Passo (Dente+Valle)

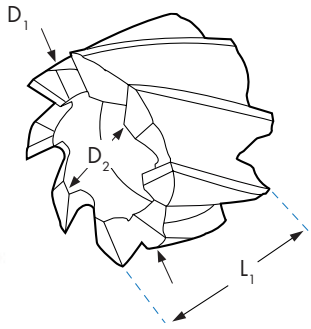
FRESE CILINDRICHE FRONTALI CON CHIAVETTA TRASVERSALE HSSCo

Ref. FF87

HSSCo **DIN 1880** 30° FINITURA





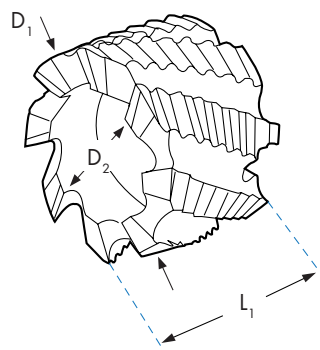


Ref. FF88

HSSCo **DIN 1880** **NR** 30° SGROSSATURA







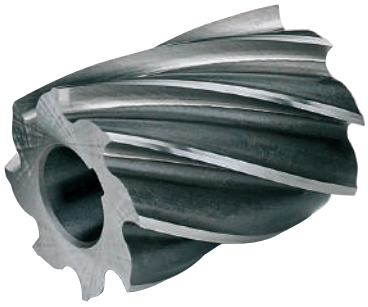
D1 mm	D2 mm	L1 mm	Z	FF87 €
40	16	32	8	138,75
50	22	36	8	190,90
63	27	40	8	260,85
80	27	45	10	369,21
100	32	50	12	594,39
125	40	56	14	954,54
160	50	63	16	1.705,96

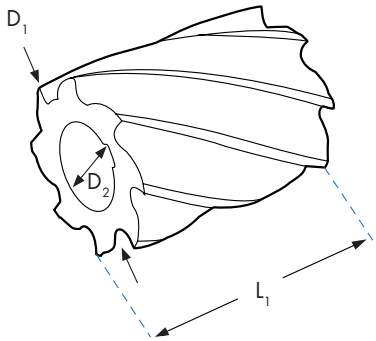
D1 mm	D2 mm	L1 mm	Z	FF88 €
40	16	32	6	200,95
50	22	36	6	249,54
63	27	40	8	330,63
80	27	45	8	485,96
100	32	50	10	801,77
125	40	56	12	1.360,22
160	50	63	14	2.360,18

FRESE CILINDRICHE FRONTALI CON CHIAVETTA TRASVERSALE HSSCO



Ref. FF89 | HSSCo | DIN 884 | 30° | CILINDRICA A SPIANARE





FF89

D1 mm	D2 mm	L1 mm	Z	€
50	22	63	8	173,84*
50	22	80	8	259,14*
63	27	50	8	228,11*
63	27	70	8	277,53*
80	32	63	8	384,48*
100	40	70	10	598,18*

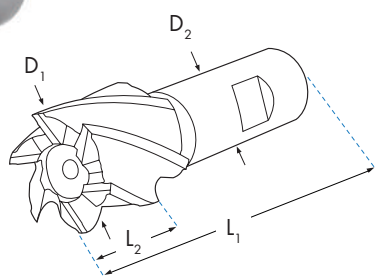
*Fino ad esaurimento scorte.

FRESE CILINDRICHE FRONTALI A SPIANARE CON CODOLO



Ref. FMF87 | HSSCo 8% | 30° | FINITURA





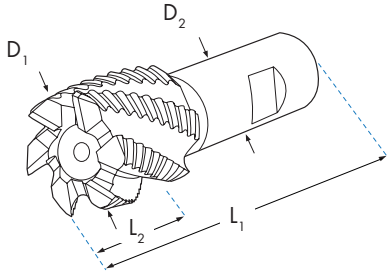
FMF87

D1 mm	L2 mm	L1 mm	D2 mm	Z	€
30	30	90	20	6	202,26
35	30	90	20	6	232,12
40	32	95	25	8	289,30



Ref. FMF88 | HSSCo 8% | NR | 30° | SGROSSATURA





FMF88

D1 mm	L2 mm	L1 mm	D2 mm	Z	€
30	30	90	20	6	233,82
35	30	90	20	6	299,55
40	32	95	25	8	366,95

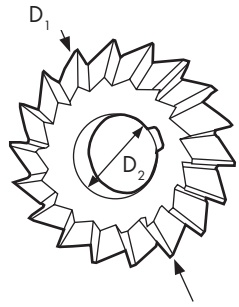
FRESE AD ANGOLO SINGOLO E DOPPIO HSSCO

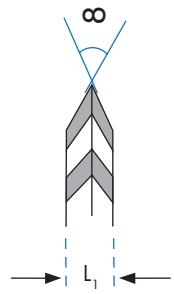
Ref. FF77 — HSSCo — DIN 847 — 45°

Ref. FF78 — HSSCo — DIN 847 — 60°

Ref. FF79 — HSSCo — DIN 847 — 90°







FF77

D1 mm	D2 mm	L1 mm	∞	Z	€
50	16	8	45º	20	**185,21**
63	22	10	45º	22	**220,30**
80	27	12	45º	24	**307,59**
100	32	18	45º	26	**384,54**

FF78

D1 mm	D2 mm	L1 mm	∞	Z	€
50	16	10	60º	18	**188,85**
63	22	14	60º	20	**224,63**
80	27	18	60º	22	**313,61**
100	32	25	60º	24	**392,08**

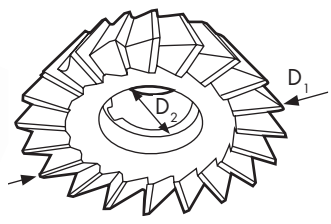
FF79

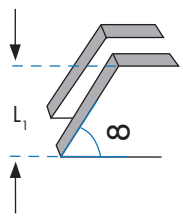
D1 mm	D2 mm	L1 mm	∞	Z	€
50	16	14	90º	16	**188,85**
63	22	20	90º	18	**224,63**
80	27	22	90º	20	**313,61**
100	32	32	90º	22	**392,08**

Ref. FF91 — HSSCo — DIN 842 — 50°

Ref. FF90 — HSSCo — DIN 842 — 60°







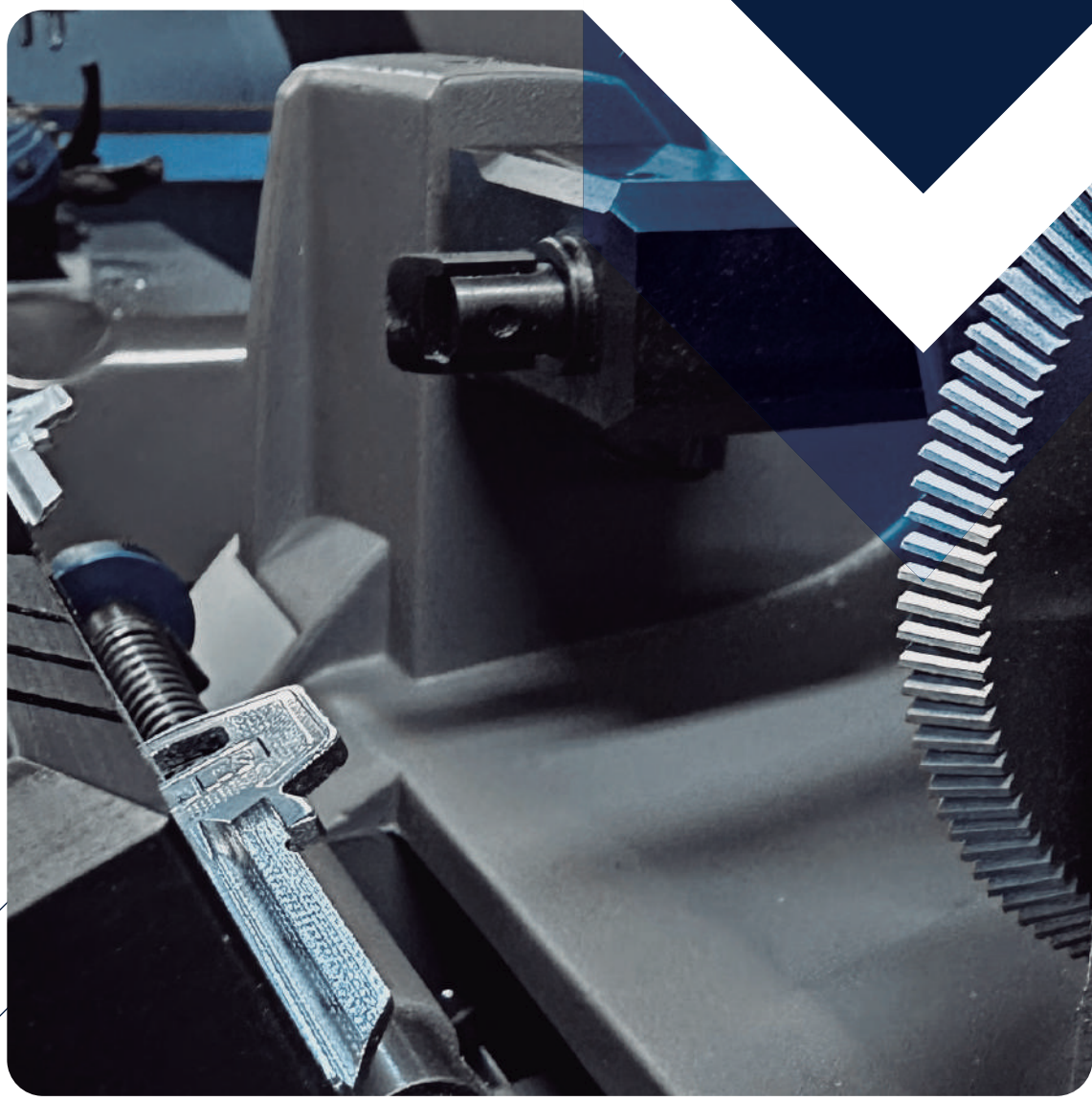
FF91

D1 mm	D2 mm	L1 mm	∞	Z	€
40	10	13	50º	14	**146,45**
50	13	16	50º	16	**180,60**
63	16	20	50º	18	**228,29**
80	22	25	50º	20	**328,91**
100	27	32	50º	22	**477,05**
125	32	40	50º	24	**787,77**
160	40	50	50º	30	**1.378,02**

FF90

D1 mm	D2 mm	L1 mm	∞	Z	€
40	10	13	60º	14	**143,60**
50	13	16	60º	16	**177,09**
63	16	20	60º	18	**223,86**
80	22	25	60º	20	**322,54**
100	27	32	60º	22	**467,77**
125	32	40	60º	24	**772,50**
160	40	50	60º	30	**1.351,27**

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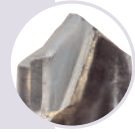
FRESE PER CHIAVI

UTENSILI PER I SERRATURIERI
LA GAMMA PIÙ AMPIA DI UTENSILI PER LA SERRATURERIA

DIN 338 | PMD | 118° | 30° "N" | BRILLANTE | GHISA







Ø mm	L1 x L2 mm	BC7		€/U.		BC7B	€/U.
6,00	93 x 57	BC70600		20,35	BC70600B	1	24,30

Punta DIN 338 con punta in metallo duro per METALLI DURI. Punta di ALTA DUREZZA per forare METALLI DURI nella serratureria. Lo trovi a pagina 51.

DIN 338 | HSSCo 5% | 135° | 30° "N" | ORO | 120 Kg/mm²











Ø mm	L1 x L2 mm		BC5	€/U.		BC5F	€		BC5B	€
6,00	93 x 57	BC50600	10	4,97	BC50600F	1	5,53	BC50600B	1	6,37

Punta elicoidale in HSSCo secondo DIN 338 per metalli di 120 Kg / mm² durezza.
Punta di ALTA DUREZZA per USI GENERALI nella serratureria. Lo trovi a pagina 50.

DIN 338 | PMD | 135° | 30° "N" | BRILLANTE | 70 HRc







Ø mm	L1 x L2 mm		BC98	€/U.		BC98B	€/U.
6,00	93 x 57	BC980600	1U.	16,84	BC980600B		20,79

Punta DIN 338 con punta in metallo duro per METALLI MOLTI DURI o TEMPRATI. Punta DI ALTA DUREZZA per forare METALLI DURI o TEMPRATI nella serratureria. Lo trovi a pagina 51.

MD | TOL D1 h7 | TOL D2 h6 | 140° | 15° "H" | TiAlN | HARDOX 600 | ALTA PRODUZIONE | 70 HRc

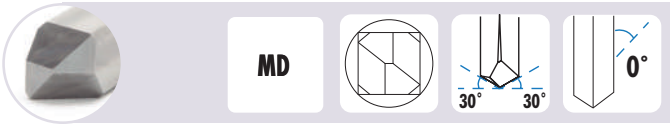


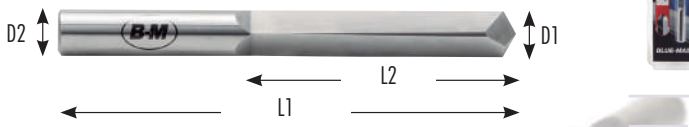
Ø mm	L1 x L2 mm		BC85	€/U.		BC85B	€/U.
6,00	75 x 35	BC850600	1U.	78,85	BC850600B		83,78

Punta in metallo duro integrale per METALLI TEMPRATI, fino a durezza 70 HRc. Punta di DUREZZA MASSIMA per forare METALLI TEMPRATI nella serratureria. Lo trovi a pagina 70.

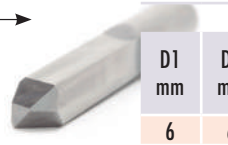
Su richiesta, possiamo fornire alle nostre carte un sistema antifurto per elettromagnetismo con un supplemento di 0,07 € NETTI per lettera, che può essere posizionato su tutti i pezzi o in modo casuale.

PUNTA QUADRATA PER PERFORARE CILINDRI











Punta a sezione quadrata in metallo duro integrale per FORARE CILINDRI E PITONI ANTI-FORATURA.
IL TRAPANO N. 1 PER LA FORATURA DI CILINDRI AD ALTA DUREZZA nella serratureria.

* Per forare cilindri "Anti-drilling" lavorare a 300RPM

D1 mm	D2 mm	L2 mm	L1 mm	1U.	€		€
6	6	33	60	BCC06X60MD	**49,56**	BCC06X60MDB	**54,49**

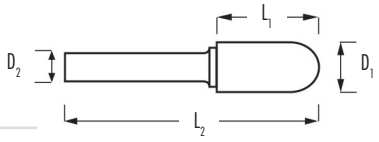
FRESA PER I SERRATURIERI SPECIALE PER FRESARE CILINDRI

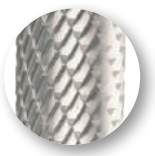
TIPO C **MD**



Fresa per il SERRATURIERE, nota anche come VAMPIRO, realizzata in metallo duro integrale.
Geometria emisferica in lunghezze totali da 60mm a 150mm.
La fresa ideale per FRESATURA DI CILINDRI, selezionare dalla vasta gamma di dimensioni la più adatta alla sua applicazione.











	D1 mm	D2 mm	L1 mm	L2 mm					
3 mm. CODOLO	3.0	3	25.0	60	HSS	Y548TG2	**21,25**	Y548TG2B	**25,27**
	3.0	3	25.0	60	Monobloc	C30325-6	**33,19**	C30325-6B	**37,16**
6 mm. CODOLO	6.0	6	25.0	50	Monobloc	C60625-6	**41,86**	C60625-6B	**45,85**
	6.0	6	25.0	60	Monobloc	C60625-60-6	**43,89**	C60625-60-6B	**47,87**
	6.0	6	25.0	80	Monobloc	C60625-80-6	**46,28**	C60625-80-6B	**50,27**
	6.0	6	25.0	100	Monobloc	C60625-100-6	**57,13**	C60625-100-6B	**61,11**
	6.0	6	25.0	120	Monobloc	C60625-120-6	**68,56**	C60625-120-6B	**72,54**
	6.0	6	25.0	150	Monobloc	C60625-150-6	**91,43**	C60625-150-6B	**95,41**

REFERENZA	**SETC60625**
Nº FRESE	4
CONTENUTO	C60625-100-6 / C60625-80-6 C60625-60-6 /C60625-6
P.V.P. €	**182,36**



FRESA CILINDRICA IN METALLO DURO INTEGRALE CON PUNTA FORANTE E TAGLIENTI SEGHETTATI

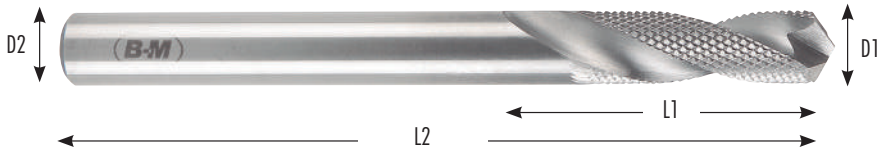
NEW

Ref. RCC

MD | 66 HRc | INOX | Cu-Ni-La | PHENOLIC



Speciale per forare cilindri di alta sicurezza con schermatura/blindaggio.
Foratura di alta precisione grazie alla punta centrante.
I suoi due taglienti seghettati macinano il materiale durante la fresatura, consentendo uno scorrimento ottimale dell'utensile.
É dotata di canali che alleggeriscono gli sforzi operativi garantendo un'eccellente evacuazione del truciolo.
Utilizzare con una potente smerigliatrice diritta. Se possibile con regolazione del numero di giri. 14000- 28000 rpm per un ottimo rendimento



D1 mm	D2 mm	L1 mm	L2 mm		€
5.0	5	20.0	50	RCC0500	**38,46**
6.0	6	25.0	63	RCC0600	**45,74**
8.0	8	25.0	63	RCC0800	**76,15**
10.0	10	25.0	63	RCC1000	**96,74**

CILINDRICA CON TAGLIO FRONTALE

TIPO A/E

MD



Frese ROTATIVE in metallo duro forma A / E (frontale cilindrica) e forma C (semi sferica)
La fresa ideale per FRESATURA DI CILINDRI, selezionare dal ampia gamma di dimensioni la più adatta alla sua applicazione. Lo trovi a pagine 335.



6 mm. CODOLO



D1 mm	L2 mm	D2 mm	L1 mm			1U.		1U.
6.0	25.0	6	50	Monobloc	A60625-6E	**37,33**	A60625-6EB	**41,31**



Su richiesta, possiamo fornire alle nostre carte un sistema antifurto per elettromagnetismo con un supplemento di 0,07 € NETTI per lettera, che può essere posizionato su tutti i pezzi o in modo casuale.

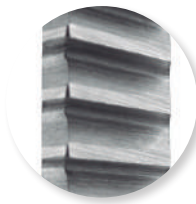
FRESE PER MACCHINE DUPLICATRICI DI CHIAVI TIPO JMA

FRESE PRISMATICHE



Ref.**FLL99**: frese prismatiche 80x5x16 Z110 senza smusso laterale.





Ref. FLLFP4



Ref. BM	Ref. JMA	TIPI DI MACCHINE	MATERIALE	mm	mm	mm	β°	Z	mm	FLL €
FLLFP1 (FLL02)	FP1	OREGON	HSSV	25	10	10	100º	60	0,1	**102,56**
FLLFP2W	FP2W	VIRGINIA	MD	40	10	6	70º	70	0,1	**403,37**
FLLFP3 (FLL04)	FP3	KIS, SPRINT	HSSV	50	12	6	90º	80	0,15	**124,82**
FLLFP4 (FLL06)	FP4	KIS	HSSV	53	12,7	6,35	45/15°	72	0,6	**128,73**
FLLFP5	FP5	JMA	HSSV	57	12,7	5	90º	80	0,15	**160,44**
FLLFP6 (FLL09)	FP6	KIS, SPRINT	HSSV	60	12,7	5	84º	140	0,1	**124,82**
FLLFP11ECCO (FLL11)	FP11/ECCO-009	ECCO, ECCO-PLUS	HSSV	63	16	5	84°	80	1	**119,41**
FLLFP11W	FP11W	ECCO, ECCO-PLUS	MD	63	16	5	84°	80	1	**365,18**
FLLFP12	FP12	TUCSON	HSSV	63	16	5	80°	80	1,25	**128,73**
FLLFP12W	FP12W	TUCSON	MD	63	16	5	80°	80	1,25	**394,30**
FLLFP13	FP13	DALLAS	HSSV	63	16	5	84°	100	1	**160,31**
FLLCU14	CU14	ECCO, ECCO-PLUS	HSSV	63	16	5	80°	80	1,25	**157,09**
FLLFP16 (FLL13)	FP16	PROCODE	HSSV	70	16	5,25	76°	100	1	**160,31**
FLLFP16W	FP16W	PROCODE	MD	70	16	5,25	76°	100	1	**394,30**
SLLP01	FP24 DAKOTA = P01	DAKOTA, ERREBI SARATOGA, NEVADA, DENVER, TITAN, VIENNA	HSSV	80	16	5	84°	110	1	**103,50**
SLLP01/120	FP24 DAKOTA=P01/120		HSSV	80	16	5	84°	120	1	**105,47**
FLLFP24 (FLL16)	FP24 ERREBI		HSSV	80	16	5	84°	110	1,25	**98,46**
FLLFP24W	FP24W ERREBI		MD	80	16	5	84°	110	1,25	**365,18**
FLL99	FP24		HSSV	80	16	5	84°	110	0	**113,76**

ALTRE FRESE PER USO GENERALE

	Ref. BM	TIPI DI MACCHINE	MATERIALE	mm	mm	mm	Z	FLL €
FRESE PRISMATICHE	FLL01	FLORA	HSSV	23	10	5	36	**118,08**
	FLL03	YALE	HSSV	40	8	5	80	**128,11**
	FLL05	NOVACLAU	HSSV	52	16	5	110	**151,27**
	FLL07	KIS	HSSV	53	12,7	6	80	**168,31**
	FLL08	KIS	HSSV	55	12	6	80	**168,31**
	FLL10	NOVACLAU	HSSV	61	12,7	6,5	140	**171,37**
	FLL11	NOVACLAU	HSSV	62	16	5	80	**168,04**
	FLL12	NOVACLAU	HSSV	63	16	5	140	**168,04**
	FLL14	WALKIN	HSSV	70	15	6,5	150	**155,67**
	FLL15	LINCE	HSSV	70	13	7	88	**173,09**

FRESE PER MACCHINE DUPLICATRICI DI CHIAVI TIPO JMA

FRESE CIRCOLARI A TAGLIO LATERALE



Ref. **FLLFP19**



Ref. BM	Ref. JMA	TIPI DI MACCHINE	MATERIALE	mm	mm	mm	Z	FLL €
FLL17		JMA-NOVACLAU-WALKIN	HSSV	35	12	3,15	50	**116,98**
FLL18		JMA-NOVACLAU-WALKIN	HSSV	63	15	1,40	80	**143,05**
FLLFP7	FP7	ECCO BIT, DETROIT	HSSV	63	16	1,25	80	**128,17**
FLLFP7W	FP7W	ECCO BIT, DETROIT	MD	63	16	1,25	80	**318,51**
FLLFP8 (FLL19)	FP8	ECCO BIT, DETROIT	HSSV	63	16	1,4	80	**129,59**
FLL20		JMA-NOVACLAU-WALKIN	HSSV	70	16	1,40	100	**150,07**
FLLFP17	FP17	TITAN BIT, SARATOGA, YAKARTA	HSSV	80	16	1,25	100	**131,12**
FLLFP17W	FP17W	TITAN BIT, SARATOGA, YAKARTA	MD	80	16	1,25	100	**334,63**
FLLFP18	FP18	ATLANTA, TOPEKA	HSSV	80	22	1,25	100	**133,74**
FLLFP18W	FP18W	ATLANTA, TOPEKA	MD	80	22	1,25	100	**334,63**
FLLFP19 (FLL21)	FP19	SARATOGA,YAKARTA, TITAN BIT, DAKOTA	HSSV	80	16	1,4	100	**134,24**
FLLFP19W	FP19W	SARATOGA,YAKARTA, TITAN BIT, DAKOTA	MD	80	16	1,4	100	**313,42**
FLLFP20 (FLL22)	FP20	ATLANTA, TOPEKA	HSSV	80	22	1,4	100	**134,24**
FLLFP21 (FLL24)	FP21/SLLSG2	ATLANTA, TOPEKA, DUPLEX,KANSAS	HSSV	80	22	1,5	100	**137,96**
FLLFP21W	FP21W	ATLANTA, TOPEKA, DUPLEX,KANSAS	MD	80	22	1,5	100	**341,17**

FRESE A SEGHETTO



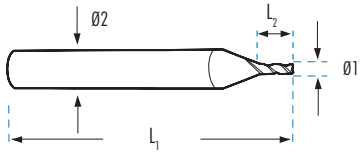
Ref. **FLLFP22W**



Ref. BM	Ref. JMA	TIPI DI MACCHINE	MATERIALE	mm	mm	mm	Z	FLL €
FLLFP9	FP9	ECCO BIT	HSSV	63	16	1	80	**84,50**
FLLFP10	FP10	ECCO FORD, ECCO ABBLOY, PASADENA, NEBRASCA	HSSV	63	16	2,4	80	**84,50**
FLLFP22	FP22	TITAN BIT, DAKOTA, SARATOGA	HSSV	80	16	1	100	**90,14**
FLLFP22W	FP22W	TITAN BIT, DAKOTA, SARATOGA	MD	80	16	1	100	**308,47**
FLLFP23	FP23	DUPLEX, ATLANTA, TOPEKA	HSSV	80	22	1	100	**93,39**
FLLFP23W	FP23W	DUPLEX, ATLANTA, TOPEKA	MD	80	22	1	100	**308,47**
FF68801416100C0	-	TITAN , DAKOTA, SARATOGA, YAKARTA	HSSCo	80	16	1,4	100	**90,79**
FLLFP26 (FLL23)	FP26	G, SENNA, DAKOTA, SARATOGA, YAKARTA	HSSV	80	16	1,5	100	**94,68**
FLLFP26W	FP26W	G, SENNA, DAKOTA, SARATOGA,	MD	80	16	1,5	100	**312,79**

FRESE PER MACCHINE DUPLICATRICI DI CHIAVI TIPO JMA

FRESINI PER CHIAVI LASER





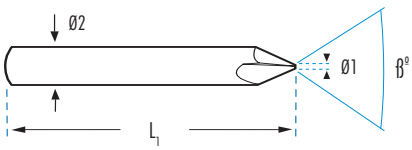
Ref. **FLLF3**



FLL

Ref. BM	Ref. JMA	TIPI DI MACCHINE	MATERIALE	Ø1 mm	L1 mm	Ø2 mm	L2 mm	Z	€
FLLF3Z3 (FLL32)	≃ F3	ALBANY ARIZONA COLUMBIA DAKAR DAKAR EXPRESS DAY T-COL DAYTONA X CODE	HSSCo	1,5	45	6	3	3	**44,50**
FLLF3 (FLL44)	F3		HSSCo	1,5	45	6	3	2	**41,65**
FLLF3W (FLL45)	F3W		MD	1,5	45	6	3	2	**135,41**
FLLF33 (FLL53)	F33		HSSCo	2	45	6	4	3	**40,21**
FLL11Z3 (FLL33)	≃ F11		HSSCo	2,5	45	6	5	3	**40,21**
FLLF11 (FLL48)	F11		HSSCo	2,5	45	6	5	2	**35,99**
FLLF11W (FLL49)	F11W		MD	2,5	45	6	5	2	**102,50**
FLLF17 (FLL34)	F17		HSSCo	3	45	6	6	3	**40,21**
FLLF8Z3 (FLL35)	≃ F8		HSSCo	4	45	6	6	3	**46,80**
FLLF8 (FLL46)	F8		HSSCo	4	45	6	7	2	**41,65**
FLLF8W (FLL47)	F8W		MD	4	45	6	6	2	**127,08**
FLLF77 (FLL36)	-		HSSCo	5	45	6	7	3	**46,80**
FLLF78 (FLL37)	-		HSSCo	6	45	6	8	3	**46,80**
FLLF78W (FLL54)	-		MD	6	45	6	8	3	**102,50**
FLLF78WZ4 (FLL55)	-		MD	6	45	6	8	4	**102,50**

FRESE DA CENTRO UNIVERSALE PER MACCHINE TIPO JMA E SILCA





Ref. **FLLF1**

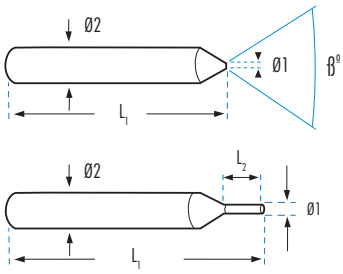


FLL

Ref. BM	Ref. JMA	TIPI DI MACCHINE	MATERIALE	ß°	Ø1 mm	L1 mm	Ø2 mm	Z	€
FLLF82	-	ALBANY	HSSCo	82º	0,9	45	6	2	**27,42**
FLLF1 (FLL43)	F1	ARIZONA COLUMBIA DAKAR DAKAR EXPRESS DAY T-COL DAYTONA X CODE	HSSCo	90º	0,8	45	6	2	**27,42**
FLLF1W (FLL42)	F1W		MD	90º	0,8	45	6	2	**84,92**
FLLF5 (FLL52)	F5		HSSCo	90º	0,9	45	6	2	**27,42**
FLLF5W (FLL42)	F5W		MD	90º	0,9	45	6	2	**84,92**
FLLF95	-		HSSCo	95º	0,9	45	6	2	**27,42**
FLLF13 (FLL50)	F13		HSSCo	100º	0,8	45	6	2	**27,42**
FLLF13W (FLL51)	F13W		MD	100º	0,8	45	6	2	**79,45**
FLLF105	-		HSSCo	105º	0,9	45	6	2	**27,42**

FRESE PER MACCHINE DUPLICATRICI DI CHIAVI TIPO JMA

TASTATORI





Ref. **FLLP1**



Ref. **FLLP3**



FLL

Ref. BM		Ref. JMA	TIPI DI MACCHINE	MATERIALE	β°	Ø1 mm	L1 mm	Ø2 mm	L2 mm	€
FLLP1	(PLL38)	P1	ALBANY ARIZONA COLUMBIA DAKAR DAKAR EXPRESS DAY T-COL DAYTONA X CODE	HSSV	90°	0,8	45	6	-	**22,32**
FLLP3	(PLL32)	P3		HSSV	-	1,5	45	6	4	**39,48**
FLLP5		P5		HSSV	90°	0,9	45	6	-	**22,32**
FLLP8	(PLL35)	P8		HSSV	-	4	45	6	7	**39,48**
FLLP11	(PLL33)	P11		HSSV	-	2,5	45	6	4	**39,48**
FLLP13	(PLL50)	P13		HSSV	100°	0,8	45	6	-	**22,32**
FLLP17	(PLL34)	P17		HSSV	-	3	45	6	6	**39,48**
FLLP52	(PLL52)	-		HSSV	90°	0,9	45	6	-	**22,32**
FLLP77	(PLL36)	-		HSSV	-	5	45	6	7	**39,48**
FLLP78	(PLL37)	-		HSSV	-	6	45	6	8	**39,48**

FRESINI KEY LINE

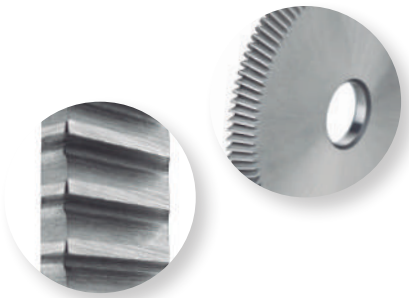
Ref. BM	Ref. JMA	TIPI DI MACCHINE	MATERIALE	β°	Ø1 mm	L1 mm	Ø2 mm	L2 mm	€
V001	-	KEY LINE	MD	90°	0,4	32	4	-	**144,98**
V003	-		MD	-	2,5	32	4	5	**144,98**
V004	-		MD	82°	0,5	32	4	-	**144,98**
V007	-		MD	100°	0,4	32	4	-	**144,98**
V012	-		MD	-	1,5	32	4	4	**178,26**

FRESE PER MACCHINE DUPLICATRICI DI CHIAVI TIPO SILCA

FRESE PRISMATICHE



Ref. **SLLP01**



Ref. BM	Ref. SILCA	TIPI DI MACCHINE	MATERIALE	mm	mm	mm	β°	Z	mm	SLL €
SLL01F	01F	FUTURA PRO	MD	60,4	9,52	3,05	40	110	0	**160,12**
SLLU01	U01	UNOCODE/ULTRACODE	HSSV	60,4	9,52	5,25	80	72	0,5	**128,62**
SLLU01W	U01W	UNOCODE/ULTRACODE	MD	60,4	9,52	5,25	80	72	0,5	**410,92**
SLLP21	P21	SILCA DELTA	HSSV	60,4	9,52	5,25	84	72	0,5	**116,01**
SLLP01	P01	BRAVO/POKER/REKORD BRAVO SUPER/SUPER MASTER	HSSV	80	16	5	84	110	1	**103,50**
SLLP01/120	P01/120		HSSV	80	16	5	84	120	1	**105,47**
SLLP01W	P01W		MD	80	16	5	84	110	1	**339,09**

FRESE CIRCOLARI A TAGLIO LATERALE



Ref. **SLLSG2**



Ref. BM	Ref. SILCA	TIPI DI MACCHINE	MATERIALE	mm	mm	mm	Z	SLL €
SLLY2KW	Y2KW	DELTA	MD	63	16	1,35	80	**310,73**
SLLSG19	SG19	DELTA	HSSV	64,6	9,52	1,5	40	**87,81**
SLLSG19W	SG19W	DELTA	MD	64,6	9,52	1,5	40	**295,76**
SLLSG18	SG18	DELTA	HSSV	64,6	9,52	2,4	40	**87,81**
SLLSG18W	SG18W	DELTA	MD	64,6	9,52	2,4	40	**295,76**
SLLSG6	SG6	LANCER	HSSV	80	22	1,3	100	**90,24**
SLLSG6W	SG6W	LANCER	MD	80	22	1,3	100	**310,73**
SLLSG2	SG2	TARGA/TECH3/TECHNICA	HSSV	80	22	1,5	100	**90,24**
SLLSG2W	SG2W	TARGA/TECH3/TECHNICA	MD	80	22	1,5	100	**310,73**
SLLFSCL4-CAW	FSCL4-CAW	DELTA	MD	80	22	1,8	100	**323,01**

FRESE PER MACCHINE DUPLICATRICI DI CHIAVI TIPO SILCA

FRESE A SEGHETTO



Ref. **SLLSG7W**



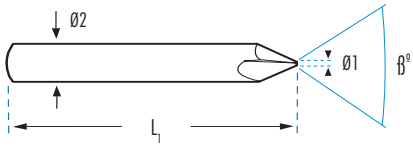
Ref. BM	Ref. SILCA	TIPI DI MACCHINE	MATERIALE	mm	mm	mm	Z	SLL €
SLLSG14W	SG14W	DELTA	MD	60,4	9,52	1,14	80	**248,49**
SLLGB1	GB1	ULTRACODE / UNOCODE	HSSV	60,4	9,52	1,7	66	**91,16**
SLL05	05	UNOCODE/ULTRACODE	HSSV	60,4	9,52	1,8	68	**91,16**
SLL05W	05W	UNOCODE/ULTRACODE	MD	60,4	9,52	1,8	68	**260,78**
SLLCU-15C	CU-15C	OPERA /TARGA	MD	63	16	1,5	80	**339,67**
SLLSG17	SG17	DELTA	HSSV	64,6	9,52	1,8	70	**91,16**
SLLSG17W	SG17W	DELTA	MD	64,6	9,52	1,8	70	**286,44**
SLLSG13	SG13	UNOCODE / DELTA	HSSV	64,6	9,52	2	70	**91,16**
SLLSG13W	SG13W	UNOCODE / DELTA	MD	64,6	9,52	2	70	**339,67**
SLL06	06	UNOCODE/ULTRACODE	HSSV	64,6	9,52	2,4	70	**91,16**
SLL06W	06W	UNOCODE/ULTRACODE	MD	64,6	9,52	2,4	70	**276,96**
SLLSG3	SG3	OPERA /TARGA/TECH3	HSSV	80	22	1	100	**86,72**
SLLSG3W	SG3W	OPERA /TARGA/TECH3	MD	80	22	1	100	**286,44**
SLLSG4	SG4	OPERA /TARGA/TECH3	HSSV	80	22	1,25	100	**86,72**
SLLSG4W	SG4W	OPERA /TARGA/TECH3	MD	80	22	1,25	100	**286,44**
SLLSG5	SG5	LANCER	HSSV	80	22	1,3	100	**86,72**
SLLSG5W	SG5W	LANCER	MD	80	22	1,3	100	**286,44**
SLLSG7	SG7	OPERA / TARGA	HSSV	80	22	1,4	100	**86,72**
SLLSG7M35	SG7M35	OPERA / TARGA	HSSCo	80	22	1,4	100	**111,02**
SLLSG7W	SG7W	LANCER	MD	80	22	1,4	100	**286,44**
SLLSG1	SG1	OPERA /TARGA/TECH3	HSSV	80	22	1,5	100	**86,72**
SLLSG1W	SG1W	OPERA /TARGA/TECH3	MD	80	22	1,5	100	**286,44**
SLLSG8	SG8	TECH3 / TECHNICA	HSSV	80	22	1,75	100	**86,72**
SLLSG10	SG10	LANCER	HSSV	80	22	2	100	**86,72**
SLLSG10W	SG10W	LANCER/ OPERA /TARGA	MD	80	22	2	100	**298,58**
SLLSG11	SG11	SILCA GT40	HSSV	80	22	2,3	100	**86,72**
SLLSG12	SG12	TARGA/TECH3/TECHNICA/OPERA	HSSV	80	22	2,5	100	**86,72**
SLLSG58400	SG58400	DELTA	MD	80	22	4	100	**274,28**
SLLPL1	PL1	PRIMA LASER	HSSV	100	22	1	100	**149,62**
SLLPL1W	PL1W	PRIMA LASER	MD	100	22	1	100	**383,91**
SLLPL1,25	PL1,25	PRIMA LASER	HSSV	100	22	1,25	100	**149,62**
SLLPL1,25W	PL1,25W	PRIMA LASER	MD	100	22	1,25	100	**366,10**
SLLPL1,5	PL1,5	PRIMA LASER	HSSV	100	22	1,5	100	**149,62**
SLLPL1,5W	PL1,5W	PRIMA LASER	MD	100	22	1,5	100	**366,10**
SLLPL1,7W	PL1,7W	PRIMA LASER	MD	100	22	1,7	100	**377,32**
SLLPL2	PL2.0	PRIMA LASER	HSSV	100	22	2	100	**149,62**
SLLPL2W	PL2.0W	PRIMA LASER	MD	100	22	2	100	**377,32**

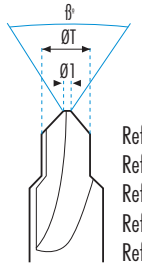
FRESE PER MACCHINE DUPLICATRICI DI CHIAVI TIPO SILCA

FRESINI PER CHIAVI PUNZONATE — MATRIX

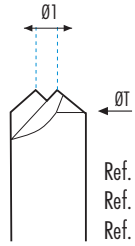


Ref. **SLLF1W**





Ref. **SLLF19-CAZ1**
Ref. **SLLF19**
Ref. **SLLF43**
Ref. **SLLF21**
Ref. **SLLF25**



Ref. **SLLF12B**
Ref. **SLLF15**
Ref. **SLLF37**



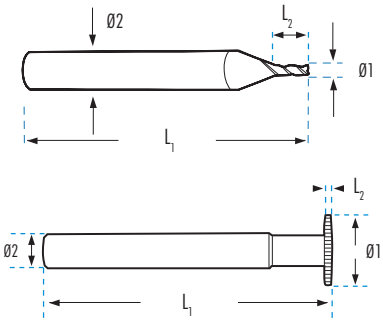
SLL

Ref. BM	Ref. SILCA	UNIV.	TIPI DI MACCHINE	MATERIALE	ß°	Ø1 mm	L1 mm	Ø2 mm	Z	€
SLLF1Z1	F1	FLLF1	MATRIX	HSSV	90°	0,7	48	6	1	**58,00**
SLLF1	F1	FLLF1	MATRIX	HSSV	90°	0,7	48	6	2	**58,00**
SLLF1W	F1W	FLLF1W	MATRIX	MD	90°	0,7	48	6	1	**103,69**
SLLF4	F4	FLLF1	MATRIX	HSSV	90°	0,4	48	6	1	**58,00**
SLLF5	F5	FLLF5	MATRIX	HSSV	90°	0,9	48	6	1	**58,00**
SLLF6	F6	FLLF105	MATRIX	HSSV	106°	1	48	6	1	**58,00**
SLLF7	F7	FLLF82	MATRIX	HSSV	72°	0,8	48	6	2	**58,02**
SLLF12A	F12A	FLLF13	MATRIX	HSSV	100°	0,4	48	6	1	**58,00**
SLLF12B	F12B	FLLF1	MATRIX	HSSV	90°	8 x 1,8*	48	6	2	**58,00**
SLLF13	F13	FLLF1	MATRIX	HSSV	90°	0,77	48	6	1	**58,00**
SLLF14	F14	FLLF5	MATRIX	HSSV	90°	0,9	48	6	1	**58,00**
SLLF15	F15	FLLF1	MATRIX	HSSV	90°	8 x 0,8*	48	6	1	**66,47**
SLLF19	F19	FLLF1	MATRIX	HSSCo	90°	2,2 x 0,6*	48	6	1	**58,02**
SLLF19-CAZ1	F19-CA	FLLF1W	MATRIX	MD	90°	2,2 x 0,6*	48	6	1	**103,69**
SLLF20	F20	FLLF1	MATRIX	HSSV	90°	0,45	48	6	2	**58,00**
SLLF21	F21	FLLF82	MATRIX	HSSCo	85°	3,2 x 0,8*	48	6	1	**66,47**
SLLF23	F23	FLLF1	MATRIX	HSSV	90º	1,5	48	6	2	**66,47**
SLLF24	F24	FLLF13	MATRIX	HSSV	100°	1,3	48	6	1	**58,00**
SLLF25	F25	FLLF1	MATRIX	HSSV	90°	3,5 x 0,65*	48	6	1	**58,00**
SLLF26	F26	FLLF82	MATRIX	HSSV	82°	0,8	48	6	1	**58,00**
SLLF27-CA	F27-CA	-	MATRIX	MD	60°	2,4 x 1,9*	48	6	1	**138,52**
SLLF28	F28	-	MATRIX	HSSV	76°	0,76	48	6	1	**58,00**
SLLF29	F29	-	MATRIX	HSSV	76°	1,9 x 0,76*	48	6	1	**58,00**
SLLF34	F34	-	MATRIX	HSSV	50°	1,5	48	6	1	**58,00**
SLLF34-CAZ1	F34-CA	-	MATRIX	MD	50°	1,5	48	6	1	**103,69**
SLLF37	F37	FLLF1	MATRIX	HSSV	90º	6 x 2,1*	48	6	2	**66,47**
SLLF39	F39	FLLF1	MATRIX	HSSV	90°	0,6	48	6	2	**70,45**
SLLF42	F42	FLLF13	MATRIX	HSSV	100°	0,7	48	6	1	**58,00**
SLLF43	F43	FLLF1	MATRIX	HSSCo	90°	1	48	6	1	**58,00**
SLLF45	F45	-	MATRIX	HSSV	130º	0,56	48	6	1	**58,02**
SLLF46	F46	FLLF13	MATRIX	HSSV	100º	0,65	48	6	1	**58,02**
SLLF49	F49	FLLF95	MATRIX	HSSV	95º	0,8	48	6	1	**66,47**
SLLF50	F50	FLLF13	MATRIX	HSSV	100º	0,5	48	6	1	**66,47**
SLLF52-CA	F52-CA	-	MATRIX	MD	54°	0,86	48	6	2	**58,00**
SLLF59	F59	FLLF1	MATRIX	HSSV	90°	0,8	48	6	2	**58,00**
SLL01D	01D	-	FUTURA PRO	MD	90°	0,4	30	6	2	**65,12**
SLL02D	02D	-	FUTURA PRO	MD	100º	0,4	30	6	2	**65,12**

* $Ø_1 \times Ø_1$

FRESE PER MACCHINE DUPLICATRICI DI CHIAVI TIPO SILCA

FRESINI PER CHIAVI LASER — MATRIX



*Ref.SLLF62W



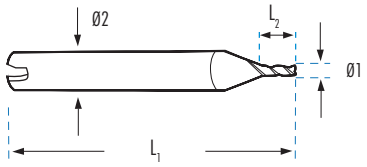
Ref. SLLF3



SLL

Ref. BM	Ref. SILCA	TIPI DI MACCHINE	MATERIALE	Ø1 mm	L1 mm	Ø2 mm	L2 mm	Z	€
SLLF3	F3	MATRIX	HSSV	1,5	48	6	2	3	58,00
SLLF8	F8	MATRIX	HSSV	4	48	6	13	3	58,00
SLLF11	F11	MATRIX	HSSV	2,5	48	6	7	3	58,00
SLLF22	F22	MATRIX	HSSV	2,5	42	6	6	3	58,00
SLLF30	F30	MATRIX	HSSV	3	48	6	6	3	58,00
SLLF30Z2	F30	MATRIX	HSSV	3	48	6	6	2	68,17
SLLF44	F44	MATRIX	HSSV	2	40	6	6	3	58,00
SLL01L	01L	FUTURA PRO	MD	2,5	30	6	3	3	65,12
SLL02L	02L	FUTURA PRO	MD	2	30	6	3	3	65,12

FRESINI PER CHIAVI LASER — QUATTROCODE /TRIAX-E





Ref. SLLW133



SLL

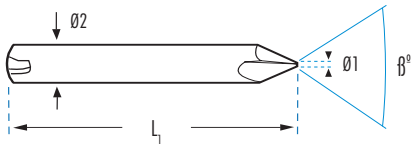
Ref. BM	Ref. SILCA	TIPI DI MACCHINE	MATERIALE	Ø1 mm	L1 mm	Ø2 mm	L2 mm	Z	€
SLLW101	W101	QUATTROCODE /TRIAX-E	MD	2,5	40	6	6	3	132,31
SLLW114	W114	QUATTROCODE /TRIAX-E	MD	2	40	6	6	3	132,33
SLLW117	W117	QUATTROCODE /TRIAX-E	MD	5	48	6	R1	4	107,39
SLLW129	W129	QUATTROCODE /TRIAX-E	MD	3	40	6	6	3	132,31
SLLW131	W131	QUATTROCODE /TRIAX-E	MD	6	40	6	5	3	97,67
SLLW133	W133	QUATTROCODE /TRIAX-E	MD	1,5	40	6	3	3	144,50
SLLW134	W134	QUATTROCODE /TRIAX-E	MD	4	40	6	7	3	132,33
SLLW219	W219	QUATTROCODE /TRIAX-E	MD	1,2	40	6	2	3	132,31
SLLW235	W235	QUATTROCODE /TRIAX-E	MD	1,1	40	6	2	3	132,28
SLLW268	W268	QUATTROCODE /TRIAX-E	MD	1,5	40	6	6	2	132,40

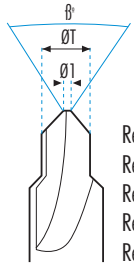
FRESE PER MACCHINE DUPLICATRICI DI CHIAVI TIPO SILCA

FRESINI PER CHIAVI PUNZONATE — QUATTROCODE /TRIAX-E



Ref. **SLLW103**





Ref. **SLLW115**
Ref. **SLLW128**
Ref. **SLLW135**
Ref. **SLLW145**
Ref. **SLLW210**



Ref. **SLLW111**
Ref. **SLLW126**
Ref. **SLLW127**
Ref. **SLLW139**

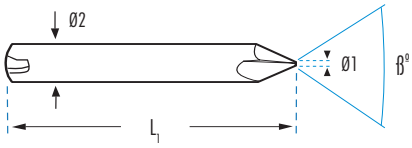


Ref. BM	Ref. SILCA	TIPI DI MACCHINE	MATERIALE	ß°	Ø1 mm	L1 mm	Ø2 mm	Z	SLL €
SLLW102	W102	QUATTROCODE /TRIAX-E	MD	106°	1	40	6	2	**92,86**
SLLW103	W103/W299	QUATTROCODE /TRIAX-E	MD	90°	0,8	40	6	2	**92,86**
SLLW104	W104	QUATTROCODE /TRIAX-E	MD	90°	1,2	40	6	2	**92,86**
SLLW105	W105	QUATTROCODE /TRIAX-E	MD	90°	0,7	40	6	2	**92,86**
SLLW106	W106	QUATTROCODE /TRIAX-E	MD	90°	0,6	40	6	2	**92,86**
SLLW107	W107	QUATTROCODE /TRIAX-E	MD	90°	0,9	40	6	2	**92,86**
SLLW108	W108	QUATTROCODE /TRIAX-E	MD	82°	0,9	40	6	2	**92,86**
SLLW109	W109	QUATTROCODE /TRIAX-E	MD	110°	0,4	40	6	2	**92,86**
SLLW110	W110	QUATTROCODE /TRIAX-E	MD	100°	0,6	40	6	2	**92,86**
SLLW111	W111	QUATTROCODE /TRIAX-E	MD	96°	8x2,75*	40	6	2	**104,32**
SLLW112	W112	QUATTROCODE /TRIAX-E	MD	60°/0º	1,5	40	6	2	**93,46**
SLLW113	W113	QUATTROCODE /TRIAX-E	MD	100°	0,76	40	6	2	**92,86**
SLLW115	W115	QUATTROCODE /TRIAX-E	MD	54°	4x0,86*	40	6	1	**124,49**
SLLW116	W116	QUATTROCODE /TRIAX-E	MD	90°	1	40	6	2	**92,86**
SLLW118	W118	QUATTROCODE /TRIAX-E	MD	120°	0,6	40	6	2	**92,86**
SLLW119	W119	QUATTROCODE /TRIAX-E	MD	85°	0,3	40	6	2	**92,86**
SLLW121	W121	QUATTROCODE /TRIAX-E	MD	86º	0,05	48	6	3	**129,21**
SLLW122	W122	QUATTROCODE /TRIAX-E	MD	90°	0,55	40	6	2	**111,44**
SLLW123	W123	QUATTROCODE /TRIAX-E	MD	76°	0,9	40	6	2	**92,86**
SLLW124	W124	QUATTROCODE /TRIAX-E	MD	90º	8x0,8*	48	6	3	**178,01**
SLLW126	W126	QUATTROCODE /TRIAX-E	MD	80°	3,3	48	6	2	**111,44**
SLLW127	W127	QUATTROCODE /TRIAX-E	MD	80°	2,1	48	6	2	**111,44**
SLLW128	W128	QUATTROCODE /TRIAX-E	MD	90°	4x0,55*	48	6	1	**124,49**
SLLW130	W130	QUATTROCODE /TRIAX-E	MD	90º	1,4	40	6	2	**125,01**
SLLW132	W132	QUATTROCODE /TRIAX-E	MD	60°	2	40	6	1	**124,49**
SLLW135	W135	QUATTROCODE /TRIAX-E	MD	90º	4x0,55*	40	6	2	**124,42**
SLLW136	W136	QUATTROCODE /TRIAX-E	MD	76°	2,23	40	6	1	**124,49**
SLLW138	W138	QUATTROCODE /TRIAX-E	MD	90º	4x0,7*	48	6	2	**92,86**
SLLW139	W139	QUATTROCODE /TRIAX-E	MD	60°/50°	0,9	40	6	2	**138,52**
SLLW142	W142	QUATTROCODE /TRIAX-E	MD	100°	1,2	40	6	2	**92,86**
SLLW145	W145	QUATTROCODE /TRIAX-E	MD	90º	3,2x0,8*	48	6	2	**124,42**
SLLW210	W210	QUATTROCODE /TRIAX-E	MD	90º	5x1,05*	40	6	3	**186,33**
SLLW213	W213	QUATTROCODE /TRIAX-E	MD	90º	0,95*	40	6	2	**140,21**
SLLW221	W221	QUATTROCODE /TRIAX-E	MD	90º	0,5	40	6	2	**125,01**
SLLW225	W225	QUATTROCODE /TRIAX-E	MD	90º	1	40	6	2	**125,01**
SLLW238	W238	QUATTROCODE /TRIAX-E	MD	90°	0,8	40	6	2	**92,86**
SLLW261	W261	QUATTROCODE /TRIAX-E	MD	1,1	3x1,5*	48	6	2	**140,21**
SLLW255	W255	QUATTROCODE /TRIAX-E	MD	90º	4x0,8*	48	6	2	**125,01**
SLLW293	W293	QUATTROCODE /TRIAX-E	MD	90º	0,85	40	6	2	**125,01**
SLLW299	W299	QUATTROCODE /TRIAX-E	MD	90º	3x0,80	40	6	2	**100,72**

* $Ø_1 \times Ø_1$

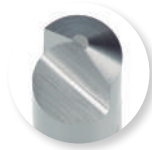
FRESE PER MACCHINE DUPLICATRICI DI CHIAVI TIPO SILCA

FRESINI PER CHIAVI PUNZONATE — QUATTROCODE /TRIAX-E



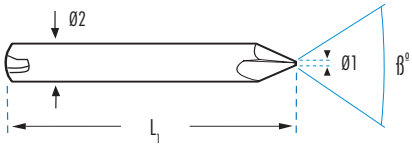


Ref. SLLW103Z1



Ref. BM	Ref. SILCA	TIPI DI MACCHINE	MATERIALE	β°	Ø1 mm	L1 mm	Ø2 mm	Z	SLL €
SLLW102Z1	W102 Z1	QUATTROCODE /TRIAX-E	MD	106°	1	40	6	2	93,46
SLLW103Z1	W103 Z1	QUATTROCODE /TRIAX-E	MD	90°	0,8	40	6	2	93,46
SLLW104Z1	W104 Z1	QUATTROCODE /TRIAX-E	MD	90°	1,2	40	6	2	93,46
SLLW105Z1	W105 Z1	QUATTROCODE /TRIAX-E	MD	90°	0,7	40	6	2	93,46
SLLW106Z1	W106 Z1	QUATTROCODE /TRIAX-E	MD	90°	0,6	40	6	2	93,46
SLLW107Z1	W107 Z1	QUATTROCODE /TRIAX-E	MD	90°	0,9	40	6	2	93,46
SLLW108Z1	W108 Z1	QUATTROCODE /TRIAX-E	MD	82°	0,9	40	6	2	93,46
SLLW109Z1	W109 Z1	QUATTROCODE /TRIAX-E	MD	110°	0,4	40	6	2	93,46
SLLW113Z1	W113 Z1	QUATTROCODE /TRIAX-E	MD	100°	0,76	40	6	2	93,46
SLLW116Z1	W116 Z1	QUATTROCODE /TRIAX-E	MD	90°	1	40	6	2	93,46
SLLW118Z1	W118 Z1	QUATTROCODE /TRIAX-E	MD	120°	0,6	40	6	2	93,46
SLLW119Z1	W119 Z1	QUATTROCODE /TRIAX-E	MD	85°	0,3	40	6	2	93,46
SLLW122Z1	W122 Z1	QUATTROCODE /TRIAX-E	MD	90°	0,55	40	6	2	93,46
SLLW123Z1	W123 Z1	QUATTROCODE /TRIAX-E	MD	76°	0,9	40	6	2	93,46
SLLW146Z1	W146 Z1	QUATTROCODE /TRIAX-E	MD	90°	0,25	40	6	1	93,46

FRESINI PER CHIAVI PUNZONATE

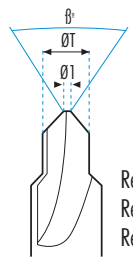




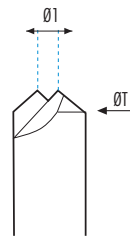
Ref. SLLH103



Ref. SLLH115



Ref. SLLH111
Ref. SLLH126
Ref. SLLH127

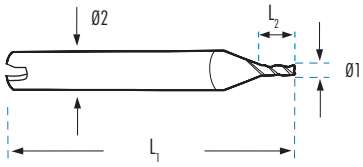


Ref. BM	Ref. SILCA	UNIV.	TIPI DI MACCHINE	MATERIALE	β°	Ø1 mm	L1 mm	Ø2 mm	Z	SLL €
SLLH103	H103	FLLF1	QUATTROCODE /TRIAX-E	HSSV	90°	0,8	40	6	2	68,52
SLLH104	H104	FLLF1	QUATTROCODE /TRIAX-E	HSSV	90°	1,2	40	6	2	61,20
SLLH105	H105	FLLF1	QUATTROCODE /TRIAX-E	HSSV	90°	0,7	40	6	2	61,20
SLLH106	H106	FLLF1	QUATTROCODE /TRIAX-E	HSSV	90°	0,6	40	6	2	58,00
SLLH107	H107	FLLF1	QUATTROCODE /TRIAX-E	HSSV	90°	0,9	40	6	2	58,00
SLLH108	H108	FLLF82	QUATTROCODE /TRIAX-E	HSSV	82°	0,9	40	6	2	58,00
SLLH110	H110	FLLF13	QUATTROCODE /TRIAX-E	HSSV	100°	0,6	40	6	2	58,00
SLLH111	H111	FLLF95	QUATTROCODE /TRIAX-E	HSSV	96°	6,4x2,75*	40	6	2	58,00
SLLH112	H112	-	QUATTROCODE /TRIAX-E	HSSV	60°	1,5	40	6	2	58,00
SLLH113	H113	FLLF13	QUATTROCODE /TRIAX-E	HSSV	100°	0,76	40	6	2	58,00
SLLH115	H115	-	QUATTROCODE /TRIAX-E	HSSV	54°	4x0,86*	40	6	1	58,00
SLLH116	H116	FLLF1	QUATTROCODE /TRIAX-E	HSSV	90°	1	40	6	2	76,56
SLLH118	H118	-	QUATTROCODE /TRIAX-E	HSSV	120°	0,6	40	6	1	58,00
SLLH119	H119	FLLF82	QUATTROCODE /TRIAX-E	HSSV	85°	0,3	40	6	2	58,00
SLLH122	H122	FLLF1	QUATTROCODE /TRIAX-E	HSSV	90°	0,55	40	6	2	58,00
SLLH126	H126	FLLF85	QUATTROCODE /TRIAX-E	HSSV	80°	3,3*	48	6	2	86,57
SLLH127	H127	FLLF85	QUATTROCODE /TRIAX-E	HSSV	80°	2,1*	48	6	2	86,57
SLLH128	H128	FLLF1	QUATTROCODE /TRIAX-E	HSSV	90°	0,75	48	6	2	58,00

* $Ø_1 \times Ø_1$

FRESE PER MACCHINE DUPLICATRICI DI CHIAVI TIPO SILCA

FRESINI PER CHIAVI LASER



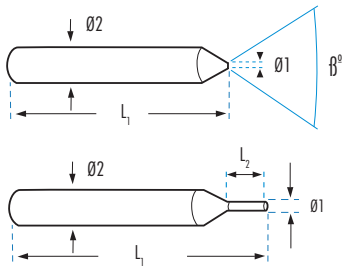


Ref. **SLLH101**



Ref. BM	Ref. SILCA	TIPI DI MACCHINE	MATERIALE	Ø1 mm	L1 mm	Ø2 mm	L2 mm	Z	SLL €
SLLH101	H101	QUATTROCODE /TRIAX-E	HSSV	2,5	40	6	6	3	**68,13**
SLLH114	H114	QUATTROCODE /TRIAX-E	HSSV	2	40	6	6	3	**58,00**
SLLH117	H117	QUATTROCODE /TRIAX-E	HSSV	5	48	6	R1	4	**70,37**
SLLH129	H129	QUATTROCODE /TRIAX-E	HSSV	3	40	6	6	3	**58,00**
SLLH131	H131	QUATTROCODE /TRIAX-E	HSSV	6	40	6	5	3	**76,56**

TASTATORI





Ref. **SLLT1**



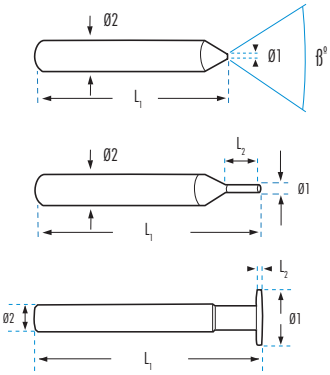
Ref. **SLLT3**



Ref. BM	Ref. SILCA	TIPI DI MACCHINE	Ref. FRESA	MATERIALE	β°	Ø1 mm	L1 mm	Ø2 mm	L2 mm	ØT mm	SLL €
SLLT1	T1	MATRIX	F1	HSSV	90°	0,7	48	6	-	-	**40,50**
SLLT2	T2	MATRIX	F2	HSSV	88°	1,6	48	6	-	-	**45,61**
SLLT3	T3	MATRIX	F3	HSSV	-	1,5	48	6	3	-	**45,61**
SLLT4	T4	MATRIX	F4	HSSV	90°	0,4	48	6	-	-	**45,61**
SLLT5	T5	MATRIX	F5	HSSV	90°	0,9	48	6	-	-	**45,61**
SLLT6	T6	MATRIX	F6	HSSV	106°	1	48	6	15	-	**45,61**
SLLT7	T7	MATRIX	F7	HSSV	72°	0,8	48	6	2	-	**45,61**
SLLT8	T8	MATRIX	F8	HSSV	-	4	48	6	12	-	**45,61**
SLLT11	T11	MATRIX	F11	HSSV	-	2,5	48	6	6	-	**45,61**
SLLT12A	T12A	MATRIX	F12A	HSSV	100°	0,4	48	6	-	-	**45,61**
SLLT12B	T12B	MATRIX	F12B	HSSV	90°	2,8	48	6	-	-	**45,61**
SLLT13	T13	MATRIX	F13	HSSV	90°	0,77	48	6	-	-	**45,61**
SLLT14	T14	MATRIX	F14	HSSV	90°	0,9	48	6	-	-	**45,61**
SLLT15	T15	MATRIX	F15	HSSV	90°	0,8	48	6	-	-	**45,61**
SLLT19	T19	MATRIX	F19	HSSV	90°	2,2 x 0,6*	48	6	-	-	**45,61**
SLLT20	T20	MATRIX	F20	HSSV	90°	0,45	48	6	-	-	**45,61**
SLLT21	T21	MATRIX	F21	HSSV	85°	3,2 x 0,8*	48	6	-	-	**45,61**
SLLT22	T22	MATRIX	F22	HSSV	-	2,5	42	6	6	-	**45,61**
SLLT23	T23	MATRIX	F23	HSSV	90º	1,5	48	6	5	-	**45,61**

FRESE PER MACCHINE DUPLICATRICI DI CHIAVI TIPO SILCA

TASTATORI



*Ref. SLLT62W



Ref. SLLT1



Ref. SLLT3



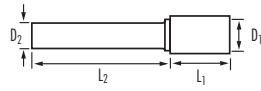
SLL

Ref. BM	Ref. SILCA	TIPI DI MACCHINE	Ref. FRESA	MATERIALE	β°	Ø1 mm	L1 mm	Ø2 mm	L2 mm	ØT mm	€
SLLT24	T24	MATRIX	F24	HSSV	100°	1,3	48	6	-	-	45,61
SLLT25	T25	MATRIX	F25	HSSV	90°	3,5 x 0,65*	48	6	-	-	45,61
SLLT26	T26	MATRIX	F26	HSSV	82°	0,8	48	6	-	-	45,61
SLLT27	T27	MATRIX	F27	HSSV	60°	1,28	48	6	-	-	51,49
SLLT28	T28	MATRIX	F28	HSSV	76°	0,76	48	6	-	-	45,61
SLLT29	T29	MATRIX	F29	HSSV	76°	1,9	48	6	-	-	45,61
SLLT30	T30	MATRIX	F30	HSSV	-	3	48	6	10	-	45,61
SLLT30-45	T30-45	MATRIX		HSSV	-	3	45	6	10	-	45,61
SLLT33	T33	MATRIX	F33	HSSV	48°	1,4	48	6	-	-	68,01
SLLT34	T34	MATRIX	F34	HSSV	50°	1,5	48	6	-	-	45,61
SLLT37	T37	MATRIX	F37	HSSV	90º	2,1	48	6	-	-	45,61
SLLT39	T39	MATRIX	F39	HSSV	90°	0,6	48	6	-	-	45,61
SLLT40	T40	MATRIX	F40	HSSV	108°	0,4	48	6	-	-	45,61
SLLT42	T42	MATRIX	F42	HSSV	100°	0,7	48	6	-	-	45,61
SLLT43	T43	MATRIX	F43	HSSV	90°	1	48	6	-	-	45,61
SLLT44	T44	MATRIX	F44	HSSV	-	2	48	6	8	-	45,61
SLLT44-45	T44-45	MATRIX		HSSV	-	2	45	6	8	-	45,61
SLLT46	T46	MATRIX	F46	HSSV	100º	0,65	48	6	-	-	45,61
SLLT49	T49	MATRIX	F49	HSSV	95º	0,8	48	6	-	-	45,61
SLLT50	T50	MATRIX	F50	HSSV	100º	0,5	48	6	-	-	45,61
SLLT52	T52	MATRIX	F52	HSSV	54°	0,86	48	6	6	2	45,61
SLLT54	T54	MATRIX	F54	HSSV	-	4	40	6	6,5	-	58,00
SLLT55	T55	MATRIX	F55	HSSV	100º	1	48	6	4	-	45,61
SLLT59	T59	MATRIX	F59	HSSV	90º	0,8	48	6	-	-	45,61
SLLT62W*	T62W	MATRIX	F62W	MD	-	11,8	48	6	1	-	91,07
SLLT63	T63	MATRIX	F63	HSSV	78°	0,5	48	6	4	3	45,61
SLLT65	T65	MATRIX	F65	HSSV	90°	1,05	48	6	5	3	45,61
SLLT101	T101	MATRIX		HSSV	-	2,5	40	6	6	-	45,61
SLLT129	T129	MATRIX		HSSV	-	3	40	6	10	-	45,61
SLLU101	U101	QUATTROCODE		MD	-	1,2	48	6	3	-	58,00
SLLU101/H	U101/H	QUATTROCODE /TRIAX-E		MD	-	1,2	48	6	3	-	39,41
SLLU102/65	U102/65	QUATTROCODE /TRIAX-E		MD	30°	0,2	48	6	9	2,6	61,95
SLLU102TT	U102TT	QUATTROCODE /TRIAX-E		MD	30°	0,2	26	4	6	2	61,95
SLLU103	U103	QUATTROCODE /TRIAX-E		MD	-	1	48	6	3	-	58,00
SLLU103/H	U103/H	QUATTROCODE /TRIAX-E		MD	-	1	48	6	3	-	39,41
SLLU103-TT	U103-TT	QUATTROCODE /TRIAX-E		MD	-	1	21	4	3	-	58,00
SLLU103-TT/H	U103-TT/H	QUATTROCODE /TRIAX-E		MD	-	1	21	4	3	-	39,41
SLLU111	U111	SILCA VIPER		MD	-	1	40	6	2,2	-	58,00
SLLU111/H	U111/H	SILCA VIPER		MD	-	1	40	6	2,2	-	39,41
SLLB3304	B3304	KEYLINE BIANCHI 994 LASER		MD	-	1	33	6	6	-	58,02
SLLB3310	B3310	KEYLINE BIANCHI 994 LASER		MD	-	1	30	6	2,6	-	58,02
SLLB3310M2	B3310	KEYLINE BIANCHI 994 LASER		HSSV	-	1	30	6	2,6	-	42,98

BLUE-MASTER® by celesa



FRESE ROTATIVE



FRESE ROTATIVE HSS

TIPO A/E — HSS





D1 mm	L1 mm	D2 mm	L2 mm	TG0 / 3	€	TG2 / 6	€
6 mm. CODOLO							
6	20	6	40	Y501TG0	17,59	Y501TG2	17,59
8	30	6	40	Y508TG0	24,31	Y508TG2	24,31
10	15	6	40			Y503TG2	24,32
10	30	6	40	Y510TG0	24,93	Y510TG2	24,93
12	30	6	40	Y505TG0	24,93	Y505TG2	24,93
15	30	6	40	Y504TG0	28,63	Y504TG2	28,63
SERIE LUNGA							
6	20	6	100			Y501LTG2	22,87
8	30	6	100			Y508LTG2	31,65
10	15	6	100			Y503LTG2	31,65
10	30	6	100			Y510LTG2	32,59
12	30	6	100			Y505LTG2	32,59
15	30	6	100			Y504LTG2	37,56

TIPO C — HSS





D1 mm	L1 mm	D2 mm	L2 mm	TG0 / 3	€	TG2 / 6	€
6 mm. CODOLO							
6	20	6	40	Y502TG0	17,59	Y502TG2	17,59
8	20	6	40			Y507TG2	24,31
10	20	6	40	Y509TG0	24,31	Y509TG2	24,31
10	30	6	40	Y511TG0	24,93	Y511TG2	24,93
12	30	6	40	Y506TG0	24,93	Y506TG2	24,93
15	30	6	40			Y514TG2	28,63
SERIE LUNGA							
6	20	6	100			Y502LTG2	22,87
8	20	6	100			Y507LTG2	31,65
10	20	6	100			Y509LTG2	31,65
10	30	6	100			Y511LTG2	32,62
12	30	6	100			Y506LTG2	32,62
15	30	6	100			Y514LTG2	37,56

TIPO D — HSS





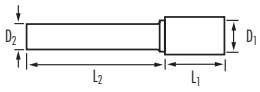
D1 mm	L1 mm	D2 mm	L2 mm	TG0 / 3	€	TG2 / 6	€
6 mm. CODOLO							
4,5	4,5	6	40			Y551TG2	17,59
6,0	6,0	6	40			Y556TG2	17,59
8,0	8,0	6	40	Y552TG0	24,31	Y552TG2	24,31
10,0	10,0	6	40			Y554TG2	24,31
12,0	12,0	6	40			Y553TG2	24,31
15,0	15,0	6	40	Y557TG0	28,63	Y557TG2	28,63
SERIE LUNGA							
4,5	4,5	6	100			Y551LTG2	22,87
6,0	6,0	6	100			Y556LTG2	22,87
8,0	8,0	6	100			Y552LTG2	31,65
10,0	10,0	6	100			Y554LTG2	31,65
12,0	12,0	6	100			Y553LTG2	31,65
15,0	15,0	6	100			Y557LTG2	37,56

TIPO G — HSS





D1 mm	L1 mm	D2 mm	L2 mm	TG0 / 3	€	TG2 / 6	€
6 mm. CODOLO							
6	20	6	40			Y521TG2	17,59
10	30	6	40			Y524TG2	24,93
12	20	6	40	Y525TG0	24,32	Y525TG2	24,32
12	30	6	40			Y526TG2	24,93
15	30	6	40			Y527TG2	28,63
12	30	6	40			Y515TG2	24,93
SERIE LUNGA							
6	20	6	100			Y521LTG2	22,87
10	30	6	100			Y524LTG2	32,62
12	20	6	100			Y525LTG2	31,65
12	30	6	100			Y526LTG2	32,62
15	30	6	100			Y527LTG2	37,56
12	30	6	100			Y515LTG2	32,59



FRESE ROTATIVE HSS

TIPO E — HSS





D1 mm	L1 mm	D2 mm	L2 mm	TG0 / 3	€	TG2 / 6	€
6 mm. CODOLO							
12	20	6	40			Y545TG2	**24,32**
15	30	6	40			Y547TG2	**28,63**
SERIE LUNGA							
12	20	6	100			Y545LTG2	**31,65**
15	30	6	100			Y547LTG2	**37,56**

TIPO L — HSS





D1 mm	L1 mm	D2 mm	L2 mm	TG0 / 3	€	TG2 / 6	€
6 mm. CODOLO							
10	15	6	40			Y533TG2	**24,32**
15	35	6	40	Y537TG0	**28,63**	Y537TG2	**28,63**
SERIE LUNGA							
10	15	6	100			Y533LTG2	**31,65**
15	35	6	100	Y537LTG0	**37,56**	Y537LTG2	**37,56**

TIPO M — HSS





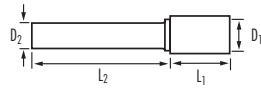
D1 mm	L1 mm	D2 mm	L2 mm	TG0 / 3	€	TG2 / 6	€
6 mm. CODOLO							
6	20	6	40	Y532TG0	**17,59**	Y532TG2	**17,59**
10	20	6	40	Y534TG0	**24,32**	Y534TG2	**24,32**
12	30	6	40	Y536TG0	**24,93**	Y536TG2	**24,93**
12	12	6	40			Y512TG2	**24,32**
SERIE LUNGA							
6	20	6	100			Y532LTG2	**22,87**
10	20	6	100			Y534LTG2	**31,65**
12	30	6	100			Y536LTG2	**32,59**
12	12	6	100			Y512LTG2	**31,65**

TIPO N — HSS





D1 mm	L1 mm	D2 mm	L2 mm	TG0 / 3	€	TG2 / 6	€
6 mm. CODOLO							
12	15	6	40			Y513TG2	**24,32**
12	30	6	40	Y516TG0	**24,93**	Y516TG2	**24,93**
SERIE LUNGA							
12	15	6	100			Y513LTG2	**31,65**
12	30	6	100			Y516LTG2	**32,59**



FRESE ROTATIVE PER INCISIONI HSS



TIPO	D1 mm	L1 mm	D2 mm	L2 mm	TG0 / 3	€
3 mm. CODOLO						
A/E	7	9	3	30	Y055	18,55
D	7	7	3	30	Y062	18,55
E	7	9	3	30	Y059	18,55
N	7	9	3	30	Y056	18,55
L	7	9	3	30	Y057	18,55
M	7	9	3	30	Y058	18,55

TIPO	D1 mm	L1 mm	D2 mm	L2 mm	TG0 / 3	€
6 mm. CODOLO						
A/E	6	8	6	40	Y255	18,55
D	6	6	6	40	Y272	18,55
E	6	8	6	40	Y259	18,55
N	6	8	6	40	Y256	18,55
M	6	8	6	40	Y258	18,55
J	6	3	6	40	Y264	18,55
DISCO	6	2	6	40	Y265	18,55

ESPOSITORI DI FRESE ROTATIVE IN HSS



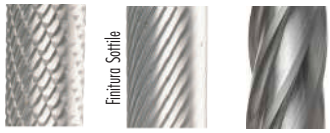
REFERENZA	E70SRTG2	
Nº FRESA/ QUALITÀ	70	HSS
CONTENUTO QUANTITÀ	Y504 (x5) Y537 (x5) Y526 (x5) Y505 (x5) Y506 (x5) Y510 (x5) Y536 (x5) Y553 (x5) Y525 (x5) Y534 (x5) Y552 (x5) Y502 (x5) Y532 (x5) Y501 (x5)	
P.V.P. €	1.659,70	

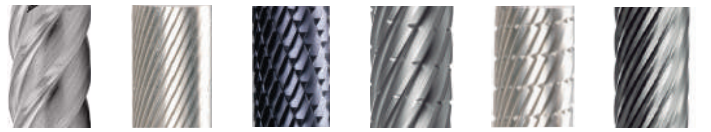
E33SRTG2	
33	HSS
Y502 - Y501 - Y541 - Y532 - Y521 - Y543- Y561 - Y551 - Y556 Y507 - Y512 - Y533 - Y534 - Y552 - Y554 - Y553 - Y557 - Y509 Y513 - Y525 - Y545 - Y524 - Y515 - Y536 - Y526 - Y537 - Y547 Y527 - Y504 - Y566 - Y516 - Y505 - Y506	
775,10	

FRESE ROTATIVE IN METALLO DURO



Raccomandato
Altamente raccomandato





Materiale	Dentature Standard 6	2	3	Dentature Speciali NG3	4	6 TiAlN	NG6	9	3 INOX
Alluminio, Plastica			●	●					
Ottone, Rame, Ghisa grigia, Bronzo	●	●			○	●	●	○	
Acciai in generale	●	●			○	●	●	○	
Acciaio Inox, Titanio	○	○			○	○	○	○	●

NEW

NUOVE DENTATURE DI ULTIMA GENERAZIONE

Migliora i tuoi processi produttivi, riduci i tempi operativi e aumenta la vita utile dei tuoi strumenti.

NG 6: Indicato per migliorare le prestazioni e la finitura in usi generali, acciai, fusioni, ottone, rame, bronzo e acciaio inossidabile.



- Aumento delle prestazioni e maggiore capacità di evacuazione del truciolo.
- Riduzione dei tempi di lavoro.
- La geometria innovativa con piccoli rompitrucioli consente l'evacuazione di maggiori volumi di trucioli in meno tempo.
- Riduzione dei costi: Prestazioni più elevate, maggiore evacuazione del truciolo in meno tempo.

NG 3: Ottimale per la lavorazione di alluminio, titanio, metalli non ferrosi, plastica e plastica rinforzata con fibra di vetro.



- 5 tagli, migliore operazione di taglio e maggiore evacuazione del truciolo.
- La geometria innovativa con doppio sottosquadro consente di evacuare maggiori volumi di trucioli in minor tempo.
- Progettato per lavorare l'alluminio e ridurre gli sforzi di lavorazione, migliorando la finitura superficiale del pezzo.
- Riduzione dei costi: Prestazioni più elevate, maggiore evacuazione del truciolo in meno tempo.

3 INOX: Specifico per la lavorazione di tutti i tipi di Acciai Inossidabili, soprattutto quelli ad alta % di Nichel in quanto generano un elevato grado di difficoltà di lavorazione.



- Aumenta l'evacuazione del truciolo evitando l'incollamento dell'INOX.
- Riduce i tempi di funzionamento, poiché il tagliente rimane pulito, senza trucioli aderenti.
- Maggiori prestazioni, grazie alla riduzione dell'attrito e del riscaldamento.
- Migliore finitura superficiale del pezzo.

TABELLA DI VELOCITÀ RACCOMANDATE

Velocità della fresa rotativa x 1.000 rpm

Ø mm	Ø "	Alluminio, Plastica: Intervallo di velocità	Alluminio, Plastica: Velocità di inizio raccomandata	Ottone, Rame, Ghisa grigia, Bronzo: Intervallo di velocità	Ottone, Rame, Ghisa grigia, Bronzo: Velocità di inizio raccomandata	Acciai in generale: Intervallo di velocità	Acciai in generale: Velocità di inizio raccomandata	Acciaio Inox, Titanio: Intervallo di velocità	Acciaio Inox, Titanio: Velocità di inizio raccomandata
3	1/8"	60-80	65	45-80	65	60-80	80	60-80	80
6	1/4"	15-60	40	22-60	45	45-60	50	30-45	40
10	3/8"	10-50	25	15-40	30	30-40	30	19-30	25
12	1/2"	7-30	20	11-30	25	22-30	25	15-22	20
16	5/8"	6-20	15	9-20	20	18-20	20	12-18	15
20	3/4"	5-17	10	8-17	12	15-17	15	10-15	10
25	1"	4-13	8	6-13	10	10-13	10	7-11	8

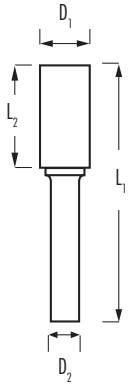
Le velocità raccomandate sono basate su lunghezze standard di codoli da 45 mm, con sporgenza massima di 10 mm.
La velocità massima raccomandata per frese extra lunghe è di 15.000 RPM.

CILINDRICA SENZA TAGLIO FRONTALE

TIPO A **MD**









		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	4	6	6+TiAlN	NG6	9	3 INOX
3 mm. CODOLO	ABM30106	1.5	6.0	3	38	Monobloc	**19,83**			**19,83**	**28,35**			
	ABM30211	2.0	11.0	3	38	Monobloc	**15,56**		√	**15,56**	**24,98**		√	
	ABM30314	3.0	14.0	3	38	Monobloc	**9,27**	**17,77**	√	**9,27**	**16,47**		√	**29,31**
	ABM30512	5.0	12.7	3	38	Monobloc	**32,21**			**30,72**	**46,49**			
	ABM30605	6.3	4.7	3	37	Saldata	**23,19**		√	**23,19**	**35,02**		√	
	ABM30612	6.3	12.7	3	45	Saldata	**23,21**	**39,52**	√	**23,90**	**40,89**		√	**42,68**
SERIE LUNGA	ABM30314-50	3.0	14.0	3	50	Monobloc	**30,70**	**42,98**	√	**30,70**	√		√	
	ABM30314-75	3.0	14.0	3	75	Monobloc	**37,98**	**53,13**	√	**38,33**	√		√	
	ABM30314-100	3.0	14.0	3	100	Monobloc	**44,10**	**61,75**	√	**44,10**	√		√	

		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	4	6	6+TiAlN	NG6	9	3 INOX
6 mm. CODOLO	ABM60312	3.0	14.0	6	50	Monobloc	**34,93**			**34,93**	**50,20**			
	ABM60413	4.0	14.0	6	50	Monobloc	**28,33**			**28,33**	**44,27**			
	ABM60516	5.0	16.0	6	50	Monobloc	**26,51**			**27,52**	**44,21**			
	ABM60618	6.0	18.0	6	50	Monobloc	**19,60**	**23,78**	√	**19,60**	**30,49**	**27,98**	√	**37,43**
	ABM60625	6.0	25.0	6	50	Monobloc	**35,81**			**35,81**	**57,48**			
	ABM60820	8.0	20.0	6	64	Saldata	**24,98**	**30,23**	√	**24,98**	**37,89**	**35,60**	√	**42,02**
	ABM61014	9.6	13.5	6	59	Saldata	**37,17**			**37,17**	**50,28**			
	ABM61020	10.0	20.0	6	64	Saldata	**26,87**	**32,69**	√	**26,87**	**41,86**	**40,25**	√	**42,65**
	ABM61025	10.0	25.0	6	70	Saldata	**41,12**			**41,51**	**58,98**			
	ABM61125	11.0	25.0	6	70	Saldata	**48,42**		√	**48,42**	**70,70**		√	
	ABM61220	12.0	20.0	6	64	Saldata	**50,22**		√	**50,84**	**69,01**		√	
	ABM61225	12.0	25.0	6	69	Saldata	**41,54**	**50,41**	√	**41,54**	**62,37**	**57,04**	√	**63,45**
	ABM61525	16.0	25.0	6	69	Saldata	**51,93**	**63,46**	√	**51,93**	**76,26**	**71,78**	√	
	ABM62025	19.0	25.0	6	69	Saldata	**89,19**	**111,03**	√	**89,19**	**115,22**		√	
	ABM62525	25.0	25.0	6	70	Saldata	**161,13**	**202,83**	√	**161,13**	**201,68**		√	
SERIE LUNGA	ABM60618-100	6.0	18.0	6	100	Monobloc	**74,76**	**104,66**		**74,76**	√		√	
	ABM60618-150	6.0	18.0	6	150	Monobloc	**96,30**	**134,80**		**96,30**	√		√	
	ABM60820-170	8.0	19.0	6	172	Saldata	**42,28**	**62,16**		**42,28**	√		√	
	ABM61020-170	9.6	19.0	6	172	Saldata	**48,34**	**66,91**		**46,54**	√		√	
	ABM61225-175	12.7	25.0	6	178	Saldata	**75,45**	**104,66**		**75,45**	√		√	

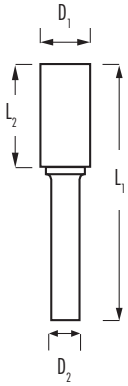
		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	4	6	6+TiAlN	NG6	9	3 INOX
8 mm. CODOLO	ABM81225	12.7	25.0	8	70	Saldata	**41,15**	**49,94**		**41,15**	**62,37**			
	ABM81525	16.0	25.0	8	70	Saldata	**51,44**	**62,87**	√	**51,44**	**76,26**		√	
	ABM82025	19.0	25.0	8	70	Saldata	**88,35**	**109,99**	√	**88,35**	**115,22**		√	
	ABM82525	25.0	25.0	8	70	Saldata	**161,13**	**202,83**	√	**161,13**	**201,68**		√	

CILINDRICA CON TAGLIO FRONTALE

TIPO A/E **MD**









		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	NG3	4	6	6+TiAlN	NG6	9
3 mm. CODOLO	ABM30106E	1.5	6.0	3	38	Monobloc	**20,02**				**20,02**	**28,61**		
	ABM30211E	2.0	11. 0	3	38	Monobloc	**15,71**			√	**15,71**	**25,21**		√
	ABM30314E	3.0	14.0	3	38	Monobloc	**9,43**	**18,21**			**9,43**	**18,72**		
	ABM30512E	5.0	12.7	3	38	Monobloc	**32,58**				**32,58**	**48,74**		
	ABM30605E	6.3	4.7	3	37	Saldata	**23,42**			√	**23,42**	**35,34**		√
	ABM30612E	6.3	12.7	3	45	Saldata	**25,58**	**39,86**		√	**25,58**	**41,23**		√
SERIE LUNGA	ABM30314-50E	3.0	14.0	3	50	Monobloc	**33,79**			√	**33,79**	√		√
	ABM30314-75E	3.0	14.0	3	75	Monobloc	**41,76**			√	**41,76**	√		√
	ABM30314-100E	3.0	14.0	3	100	Monobloc	**48,50**			√	**48,50**	√		√

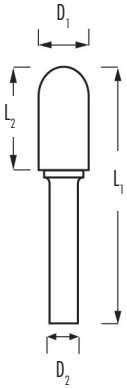
		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	NG3	4	6	6+TiAlN	NG6	9
6 mm. CODOLO	ABM60312E	3.0	12.0	6	50	Monobloc	**35,27**				**35,27**	**50,67**		
	ABM60413E	4.0	14.0	6	50	Monobloc								
	ABM60516E	5.0	16.0	6	50	Monobloc	**28,07**				**28,89**	**44,63**		
	ABM60618E	6.0	18.0	6	50	Monobloc	**20,59**	**25,80**	**44,03**	√	**20,59**	**36,94**	**28,80**	√
	ABM60625E	6.0	25.0	6	50	Monobloc	**37,33**				**37,33**	**58,01**		
	ABM60820E	8.0	20.0	6	64	Saldata	**25,39**	**32,84**		√	**25,39**	**43,08**	**38,04**	√
	ABM61014E	9.6	13.5	6	59	Saldata	**37,58**				**37,58**	**50,76**		
	ABM61020E	10.0	20.0	6	64	Saldata	**27,87**	**39,36**	**52,16**	√	**27,87**	**49,99**	**42,99**	√
	ABM61025E	9.6	25.0	6	70	Saldata	**44,45**				**44,45**	**59,54**		
	ABM61125E	11.0	25.0	6	70	Saldata	**48,88**			√	**48,88**	**71,37**		√
	ABM61220E	12.7	19.0	6	64	Saldata	**50,91**			√	**51,18**	**71,89**		√
	ABM61225E	12.0	25.0	6	69	Saldata	**42,17**	**64,69**	**75,43**	√	**42,17**	**68,29**	**60,36**	√
	ABM61525E	16.0	25.0	6	69	Saldata	**58,19**	**69,21**		√	**61,86**	**95,69**	**73,10**	√
	ABM62025E	19.0	25.0	6	69	Saldata	**89,32**	**122,40**		√	**89,32**	**145,57**		√
	ABM62525E	25.0	25.0	6	70	Saldata	**180,19**	**235,27**		√	**180,19**	**203,75**		√
SERIE LUNGA	ABM60618-100E	6.0	18.0	6	100	Monobloc	**82,24**				**82,24**	√		√
	ABM60618-150E	6.0	18.0	6	150	Monobloc	**105,90**				**105,90**	√		√
	ABM60820-170E	8.0	19.2	6	170	Saldata	**46,52**				**46,52**	√		√
	ABM61020-170E	9.6	19.2	6	170	Saldata	**53,17**				**53,17**	√		√
	ABM61225-175E	12.7	25.4	6	175	Saldata	**82,99**				**82,99**	√		√

		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	NG3	4	6	6+TiAlN	NG6	9
8 mm. CODOLO	ABM81225E	12.7	25.0	8	70	Saldata	**42,17**	**55,38**		√	**42,17**	**77,73**		√
	ABM81525E	16.0	25.0	8	70	Saldata	**58,19**	**69,21**		√	**57,81**	**95,69**		√
	ABM82025E	19.0	25.0	8	70	Saldata	**93,91**	**122,40**		√	**89,32**	**145,57**		√
	ABM82525E	25.0	25.0	8	70	Saldata	**180,19**	**235,27**		√	**180,19**	**203,75**		√

PUNTA RADIALE (SEMISFERICA)

TIPO C | **MD**







		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	NG3	4	6	6+TiAlN	NG6	9	3 INOX
3 mm. CODOLO	CBM30211	2.0	11.0	3	38	Monobloc	15,15			√	15,15	23,34		√	
	CBM30212	2.5	11.0	3	38	Monobloc	15,15				15,15	23,34			
	CBM30312	3.0	14.0	3	38	Monobloc	8,80	22,33		√	8,80	13,83		√	26,80
	CBM30512	5.0	12.7	3	38	Monobloc	33,50				33,50	52,69			
	CBM30612	6.3	12.7	3	45	Saldata	25,58	37,79		√	25,58	40,89		√	40,80
SERIE LUNGA	CBM30312-50	3.0	14.0	3	50	Monobloc	34,42	48,21		√	34,42	√		√	
	CBM30312-75	3.0	14.0	3	75	Monobloc	42,49	59,50		√	42,49	√		√	
	CBM30312-100	3.0	14.0	3	100	Monobloc	48,42	67,78		√	48,42	√		√	

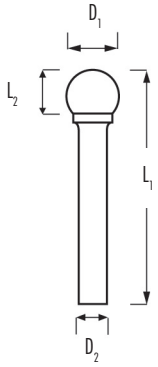
		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	NG3	4	6	6+TiAlN	NG6	9	3 INOX
6 mm. CODOLO	CBM60312	3.0	14.0	6	50	Monobloc	34,95				34,95	49,22			
	CBM60413	4.0	14.0	6	50	Monobloc	31,47				31,47	45,64			
	CBM60516	5.0	16.0	6	50	Monobloc	29,58				29,58	49,47			
	CBM60618	6.0	18.0	6	50	Monobloc	21,47	27,31	43,47	√	21,47	32,32	34,13	√	43,60
	CBM60625	6.0	25.0	6	50	Monobloc	41,86				41,86	58,00			
	CBM60820	8.0	20.0	6	64	Saldata	22,94	36,77		√	22,94	33,20	38,07	27,07	45,75
	CBM61020	10.0	20.0	6	64	Saldata	25,86	36,20	48,27	√	25,86	39,06	44,32	√	48,42
	CBM61025	9.6	25.0	6	70	Saldata	44,67				44,67	64,13			
	CBM61125	11.0	25.0	6	70	Saldata	53,18			√	53,18	75,46		√	
	CBM61210	12.0	10.0	6	54	Saldata	57,62				57,62	76,48			
	CBM61220	12.7	19.0	6	64	Saldata	59,16			√	56,94	82,16		√	
	CBM61225	12.0	25.0	6	69	Saldata	37,77	56,22	75,92	√	37,77	55,26	63,34	√	76,14
	CBM61525	16.0	25.0	6	69	Saldata	57,29	71,64		√	57,29	80,63	81,18	√	
	CBM62025	19.0	25.0	6	69	Saldata	83,08	102,87		√	83,08	105,48		√	
	CBM62525	25.0	25.0	6	70	Saldata	154,43	205,35			154,43	233,69			
SERIE LUNGA	CBM60618-100	6.0	18.0	6	100	Monobloc	85,52	119,72			85,52	√		√	
	CBM60618-150	6.0	18.0	6	150	Monobloc	110,26	154,37			108,60	√		√	
	CBM60820-170	8.0	19.2	6	175	Saldata	46,23	67,78			46,23	√		√	
	CBM61020-170	9.6	19.2	6	170	Saldata	54,85	74,56			53,83	√		√	
	CBM61225-175	12.7	25.4	6	175	Saldata	87,11	117,16			83,03	√		√	

		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	NG3	4	6	6+TiAlN	NG6	9	3 INOX
8 mm. CODOLO	CBM81225	12.7	25.0	8	70	Saldata	37,42	55,69		√	37,42	55,26		√	
	CBM81525	16.0	25.0	8	70	Saldata	56,75	70,98		√	56,75	80,63		√	
	CBM82025	19.0	25.0	8	70	Saldata	82,30	101,90		√	82,30	105,48		√	
	CBM82525	25.0	25.0	8	70	Saldata	154,43	205,35			154,43	233,69			

PUNTA SFERICA

TIPO D | **MD**







		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	NG3	4	6	6+TiAlN	NG6	9	3 INOX
3 mm. CODOLO	DBM30202	2.0	1.8	3	38	Monobloc	**17,38**			√	**17,38**	**25,59**		√	
	DBM30302	2.5	2.3	3	38	Monobloc	**16,29**				**16,29**	**23,76**			
	DBM30303	3.0	2.5	3	38	Monobloc	**8,43**	**23,49**		√	**8,43**	**14,71**		√	**25,35**
	DBM30404	4.0	3.4	3	45	Monobloc	**23,23**	**17,78**		√	**23,23**	**30,29**		√	
	DBM30505	5.0	4.7	3	38	Monobloc	**38,16**				**38,16**	**57,11**			
	DBM30606	6.0	5.0	3	50	Saldata	**19,91**	**15,13**		√	**19,91**	**33,06**		√	**37,12**
SERIE LUNGA	DBM30303-50	3.0	2.7	3	50	Monobloc	**32,10**	**44,94**		√	**32,10**	√		√	
	DBM30303-75	3.0	2.7	3	75	Monobloc	**39,44**	**55,20**		√	**39,44**	√		√	

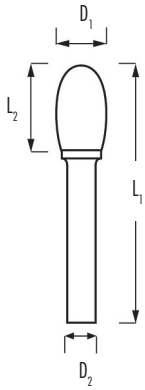
		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	NG3	4	6	6+TiAlN	NG6	9	3 INOX
6 mm. CODOLO	DBM60303	3.0	2.5	6	50	Monobloc	**38,35**				**37,44**				
	DBM60404	4.0	3.0	6	50	Monobloc	**33,50**				**33,50**				
	DBM60505	5.0	4.0	6	50	Monobloc	**29,14**				**29,14**				
	DBM60606	6.0	5.0	6	50	Monobloc	**19,10**	**26,58**	**39,93**	√	**19,10**	**29,05**	**28,83**	√	**40,05**
	DBM60808	8.0	6.4	6	50	Saldata	**19,47**	**28,29**		√	**19,47**	**29,74**	**31,30**	√	**36,92**
	DBM61010	10.0	9.0	6	53	Saldata	**20,99**	**31,10**	**39,95**	√	**20,99**	**34,14**	**34,03**	√	**40,07**
	DBM61111	11.0	9.5	6	55	Saldata	**41,24**			√	**41,24**	**63,53**		√	
	DBM61212	12.0	11.0	6	55	Saldata	**31,84**	**40,96**	**55,47**	√	**31,84**	**51,49**	**47,14**	√	**55,63**
	DBM61515	16.0	14.0	6	58	Saldata	**46,23**	**52,88**		√	**46,23**	**70,48**	**58,42**	√	
	DBM62020	19.0	16.0	6	60	Saldata	**61,80**	**75,05**		√	**62,39**	**89,61**		√	
	DBM62525	25.0	22.0	6	67	Saldata	**135,86**	**174,96**		√	**135,86**	**176,42**		√	
SERIE LUNGA	DBM60808-180	8.0	7.0	6	180	Saldata	**37,28**	**54,65**			**37,28**	√		√	
	DBM61010-185	9.6	8.5	6	185	Saldata	**44,27**	**61,10**			**44,27**	√		√	
	DBM61212-162	12.7	11.4	6	162	Saldata	**64,30**	**84,84**			**61,90**	√		√	

		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	NG3	4	6	6+TiAlN	NG6	9	3 INOX
8 mm. CODOLO	DBM81212	12.7	11.0	8	56	Saldata	**31,54**	**40,58**		√	**31,54**	**50,07**		√	
	DBM81515	16.0	14.0	8	59	Saldata	**45,80**	**52,38**		√	**45,80**	**70,48**		√	
	DBM82020	19.0	16.5	8	62	Saldata	**61,80**	**75,05**		√	**61,80**	**89,61**		√	
	DBM82525	25.0	22.0	8	67	Saldata	**135,86**	**174,96**		√	**135,86**	**176,42**		√	

PUNTA OVALE

TIPO E | **MD**






3


6


NG6


3 INOX

		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	4	6	6+TiAlN	NG6	9	3 INOX
3 mm. CODOLO	EBM30306	3.0	6.0	3	38	Monobloc	**9,31**	**22,71**	√	**9,31**	**15,09**		√	
	EBM30508	5.0	8.0	3	38	Monobloc	**33,04**			**33,04**	**48,73**			
	EBM30610	6.3	9.5	3	42	Saldata	**22,30**	**34,03**	√	**22,76**	**36,73**		√	
SERIE LUNGA	EBM30306-50	3.0	6.0	3	50	Monobloc	**39,92**			**39,92**				
	EBM30306-75	3.0	6.0	3	75	Monobloc	**45,79**			**45,79**				

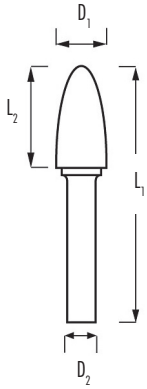
		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	4	6	6+TiAlN	NG6	9	3 INOX
6 mm. CODOLO	EBM60610	6.0	10.0	6	50	Monobloc	**20,86**	**30,91**	√	**20,86**	**31,98**	**33,00**	√	
	EBM60815	8.0	13.0	6	58	Saldata	**23,79**	**34,46**	√	**23,79**	**35,74**	**36,76**	√	**48,50**
	EBM61015	10.0	16.0	6	60	Saldata	**30,04**	**39,26**	√	**30,04**	**43,44**	**41,77**	√	**46,15**
	EBM61220	12.0	22.0	6	67	Saldata	**37,44**	**48,92**	√	**37,44**	**55,14**	**59,49**	√	**73,72**
	EBM61525	16.0	25.0	6	70	Saldata	**59,47**	**70,79**	√	**59,47**	**84,29**	**82,65**	√	
	EBM62025	19.0	25.0	6	70	Saldata	**83,19**	**102,85**	√	**83,19**	**110,73**		√	
SERIE LUNGA	EBM61015-165	9.6	16.0	6	165	Saldata	**63,39**			**63,39**				
	EBM61220-170	12.7	22.0	6	170	Saldata	**82,50**			**82,50**				

		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	4	6	6+TiAlN	NG6	9	3 INOX
8 mm. CODOLO	EBM81220	12.7	22.0	8	67	Saldata	**37,10**	**48,46**	√	**37,10**	**55,14**		√	
	EBM81525	16.0	25.0	8	70	Saldata	**58,92**	**70,13**	√	**58,92**	**84,29**		√	
	EBM82025	19.0	25.0	8	70	Saldata	**82,41**	**101,88**	√	**82,41**	**110,73**		√	

FORMA OGIVALE ARROTONDATA

TIPO F | **MD**







		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	NG3	4	6	6+TiAlN	NG6	9	3 INOX
3 mm. CODOLO	FBM30306	3.0	6.0	3	38	Monobloc	**28,16**				**28,16**	**38,35**			
	FBM30308	3.0	8.0	3	38	Monobloc	**18,93**			√	**18,93**	**27,13**		√	
	FBM30312	3.0	14.0	3	38	Monobloc	**10,28**	**26,50**		√	**10,28**	**15,02**		√	**28,62**
	FBM30512	5.0	12.7	3	38	Monobloc	**34,24**				**34,24**	**48,29**			
	FBM30612	6.3	12.7	3	45	Saldata	**25,34**	**36,14**		√	**25,34**	**40,89**		√	**39,03**
SERIE LUNGA	FBM30312-50	3.0	14.0	3	50	Monobloc				√				√	
	FBM30312-75	3.0	14.0	3	75	Monobloc									

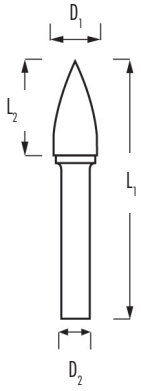
		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	NG3	4	6	6+TiAlN	NG6	9	3 INOX
6 mm. CODOLO	FBM60618	6.0	18.0	6	50	Monobloc	**22,16**	**30,21**	**45,38**	√	**22,16**	**33,51**	**31,54**	√	**45,53**
	FBM60820	8.0	20.0	6	64	Saldata	**22,45**	**38,66**		√	**22,45**	**32,46**	**38,18**	√	**45,95**
	FBM61020	10.0	20.0	6	64	Saldata	**26,43**	**38,25**	**48,56**	√	**26,43**	**38,62**	**47,10**	√	**48,73**
	FBM61125	11.0	25.0	6	70	Saldata	**53,91**			√	**53,91**	**76,19**		√	
	FBM61220	12.7	19.0	6	64	Saldata	**54,10**			√	**54,10**	**78,08**		√	
	FBM61225	12.0	25.0	6	69	Saldata	**35,11**	**53,60**	**71,92**	√	**35,11**	**51,21**	**62,24**	√	**72,14**
	FBM61525	16.0	25.0	6	69	Saldata	**61,22**	**77,54**		√	**61,22**	**85,98**	**81,93**	√	
	FBM61530	16.0	30.0	6	75	Saldata	**83,44**				**87,54**	**120,66**			
	FBM62025	19.0	25.0	6	69	Saldata	**42,70**	**110,23**		√	**43,11**	**69,41**		√	
	FBM62032	19.0	32.0	6	77	Saldata	**65,93**	**82,60**		√	**65,93**	**101,57**		√	
	FBM62038	19.0	38.0	6	83	Saldata	**172,49**	**205,02**		√	**172,49**	**213,07**		√	
SERIE LUNGA	FBM60818-150	6.0	18.0	6	150	Monobloc						√		√	
	FBM61020-170	9.6	19.2	6	170	Saldata						√		√	
	FBM61225-175	12.7	25.4	6	175	Saldata									

		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	NG3	4	6	6+TiAlN	NG6	9	3 INOX
8 mm. CODOLO	FBM81225	12.7	25.0	8	70	Saldata	**34,79**	**53,10**		√	**34,79**	**50,26**		√	
	FBM81525	16.0	25.0	8	70	Saldata	**60,65**	**76,82**		√	**60,65**	**85,98**		√	
	FBM82025	19.0	25.0	8	70	Saldata	**88,13**	**110,23**		√	**97,92**	**131,54**		√	
	FBM82032	19.0	32.0	8	77	Saldata	**115,55**	**139,89**		√	**115,55**	**150,01**		√	
	FBM82038	19.0	38.0	8	83	Saldata	**172,49**	**205,02**		√	**172,49**	**213,07**		√	

FORMA OGIVALE A PUNTA

TIPO G | **MD**







		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	NG3	4	6	6+TiAlN	NG6	9	3 INOX
3 mm. CODOLO	GBM30306	3.0	6.0	3	38	Monobloc	**17,38**			√	**17,38**	**25,59**		√	
	GBM30310	3.0	10.0	3	38	Monobloc	**17,79**				**17,79**	**26,46**			
	GBM30312	3.0	14.0	3	38	Monobloc	**10,27**	**23,63**		√	**10,27**	**15,31**		√	
	GBM30512	5.0	12.7	3	38	Monobloc	**32,45**				**34,15**	**48,73**			
	GBM30612	6.3	12.7	3	45	Saldata	**25,81**	**35,66**		√	**25,81**	**40,89**		√	
SERIE LUNGA	GBM30312-50	3.0	14.0	3	50	Monobloc	**31,72**	**44,45**		√	**31,72**	√		√	
	GBM30312-75	3.0	14.0	3	75	Monobloc	**39,83**	**55,71**		√	**39,83**	√		√	

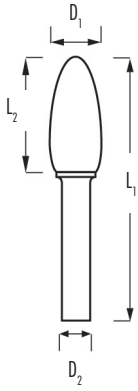
		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	NG3	4	6	6+TiAlN	NG6	9	3 INOX
6 mm. CODOLO	GBM60618	6.0	18.0	6	50	Monobloc	**21,07**	**29,96**	**50,72**	√	**21,07**	**31,87**	**31,57**	√	**50,87**
	GBM60820	8.0	20.0	6	64	Saldata	**22,25**	**36,32**		√	**22,25**	**34,74**	**36,13**	√	**54,73**
	GBM61020	10.0	20.0	6	64	Saldata	**25,01**	**38,17**	**65,69**	√	**25,01**	**39,52**	**42,61**	√	**65,88**
	GBM61220	12.7	19.0	6	64	Saldata	**52,86**			√	**51,37**	**76,42**		√	
	GBM61225	12.0	25.0	6	69	Saldata	**33,83**	**53,30**	**73,83**	√	**33,83**	**53,76**	**55,24**	√	**74,06**
	GBM61230	12.7	30.0	6	75	Saldata	**87,53**			√	**87,53**	**116,55**		√	
	GBM61525	16.0	25.0	6	69	Saldata	**62,24**	**77,16**		√	**62,24**	**92,45**	**83,30**	√	
	GBM61530	16.0	30.0	6	75	Saldata	**98,51**			√	**103,70**	**148,95**		√	
	GBM62025	19.2	25.0	6	69	Saldata	**103,79**			√	**115,31**	**148,95**		√	
	GBM62038	19.0	38.0	6	83	Saldata	**134,02**	**97,71**		√	**134,02**	**166,04**		√	
SERIE LUNGA	GBM61020-170	9.6	19.2	6	170	Saldata	**56,07**	**77,89**			**56,07**	√		√	
	GBM61225-175	12.7	25.4	6	175	Saldata	**79,60**	**105,85**			**75,88**	√		√	

		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	NG3	4	6	6+TiAlN	NG6	9	3 INOX
8 mm. CODOLO	GBM81225	12.7	25.0	8	70	Saldata	**33,52**			√	**33,52**	**53,76**		√	
	GBM81230	12.7	30.0	8	75	Saldata	**87,53**			√	**87,53**	**116,55**		√	
	GBM81525	16.0	25.0	8	70	Saldata	**61,66**			√	**61,66**	**92,45**		√	
	GBM81630	16.0	30.0	8	75	Saldata	**98,51**			√	**103,70**	**148,95**		√	
	GBM82025	19.0	25.0	8	70	Saldata	**103,79**			√	**115,31**	**155,33**		√	
	GBM82038	19.0	38.0	8	83	Saldata	**132,77**			√	**132,77**	**166,04**		√	

FORMA FIAMMA

TIPO H **MD**







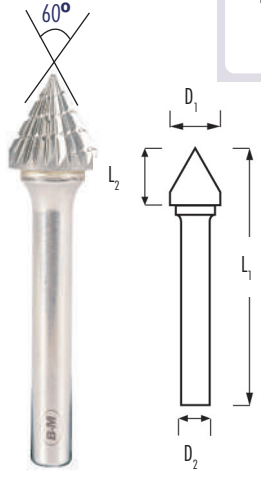
		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	4	6	6+TiAlN	NG6	9	3 INOX
3 mm. CODOLO	HBM30306	3.0	6.0	3	38	Monobloc	**16,05**		√	**17,84**	**25,89**		√	
	HBM30510	5.0	9.5	3	38	Monobloc	**35,50**			**35,50**	**47,46**			
	HBM30612	6.0	10.0	3	43	Saldata	**26,25**			**26,25**	**35,81**			

		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	4	6	6+TiAlN	NG6	9	3 INOX
6 mm. CODOLO	HBM60614	6.0	14.0	6	50	Monobloc	**28,20**			**31,34**	**45,68**	**35,19**		
	HBM60820	8.0	20.0	6	64	Saldata	**30,18**	**36,91**	√	**30,18**	**46,40**	**38,96**	√	**54,85**
	HBM61020	10.0	20.0	6	64	Saldata	**47,25**	**47,60**		**47,25**	**63,47**	**77,28**		**84,35**
	HBM61232	12.0	32.0	6	76	Saldata	**57,04**	**73,85**	√	**57,04**	**81,83**	**78,75**	√	**111,29**
	HBM61535	16.0	36.0	6	80	Saldata	**85,84**	**105,70**	√	**85,84**	**120,58**	**115,18**	√	
	HBM62042	19.0	41.0	6	85	Saldata	**125,55**	**147,60**	√	**125,55**	**157,23**		√	

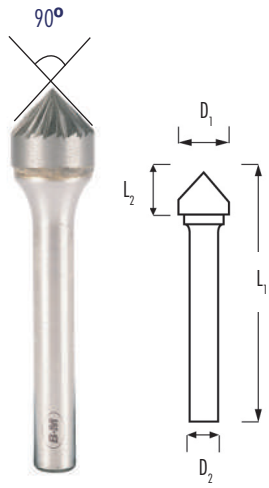
		D1 mm	L2 mm	D2 mm	L1 mm	Tipo	Dentatura - P.V.P. 2	3	4	6	6+TiAlN	NG6	9	3 INOX
8 mm. CODOLO	HBM81232	12.7	32.0	8	77	Saldata	**56,51**		√	**56,51**	**81,83**		√	
	HBM81535	16.0	36.0	8	81	Saldata	**85,03**		√	**85,03**	**120,58**		√	
	HBM82042	19.0	41.0	8	86	Saldata	**124,38**		√	**124,38**	**157,23**		√	

PUNTA CONICA 60º E 90º

TIPO J **MD**



TIPO K **MD**



TiAlN



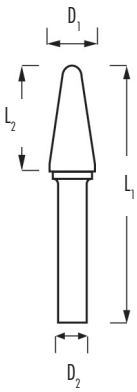
	TIPO J	D1 mm	L2 mm	D2 mm	L1 mm	Angolo	Tipo	Dentatura - P.V.P. 2	3	4	6	6+TiAlN	9
3 mm. CODOLO	JBM30303	3.0	2.5	3	38	60º	Monobloc	**14,58**			**14,58**	**23,17**	√
6 mm. CODOLO	JBM60606	6.0	4.0	6	50	60º	Monobloc	**25,45**			**25,45**	**39,44**	√
	JBM61008	9.6	8.0	6	56	60º	Saldata	**29,94**			**29,94**	**47,18**	√
	JBM61210	12.7	11.0	6	59	60º	Saldata	**36,38**			**36,38**	**57,58**	√
	JBM61512	16.0	14.5	6	63	60º	Saldata	**54,74**			**54,74**	**80,87**	√
	JBM62018	19.0	17.5	6	65	60º	Saldata	**69,58**			**69,58**	**99,83**	√
	JBM62520	25.0	24.5	6	70	60º	Saldata	**121,26**			**121,26**	**148,27**	√
8 mm. CODOLO	JBM81210	12.7	11.0	8	59	60º	Saldata	**36,38**			**36,38**	**57,58**	√
	JBM81512	16.0	14.5	8	63	60º	Saldata	**54,74**			**54,74**	**80,87**	√
	JBM82018	19.0	17.5	8	65	60º	Saldata	**69,58**			**69,58**	**99,83**	√
	JBM82520	25.0	24.5	8	70	60º	Saldata	**121,26**			**121,26**	**148,27**	

	TIPO K	D1 mm	L2 mm	D2 mm	L1 mm	Angolo	Tipo	Dentatura - P.V.P. 2	3	4	6	6+TiAlN	9
3 mm. CODOLO	KBM30303	3.0	1.5	3	38	90º	Monobloc	**9,35**			**9,35**	**15,47**	√
6 mm. CODOLO	KBM60603	6.0	3.0	6	50	90º	Monobloc	**20,57**	**20,78**		**20,57**	**31,54**	√
	KBM61004	10.0	5.0	6	55	90º	Saldata	**25,28**	**23,80**		**25,28**	**41,81**	√
	KBM61206	12.0	6.0	6	55	90º	Saldata	**33,87**	**31,01**		**33,87**	**53,12**	√
	KBM61508	16.0	8.0	6	57	90º	Saldata	**41,95**	**43,21**		**41,95**	**68,29**	√
	KBM62012	19.0	9.5	6	59	90º	Saldata	**56,83**	**69,24**		**56,83**	**80,18**	√
	KBM62512	25.0	12.7	6	61	90º	Saldata	**121,26**			**121,26**	**148,34**	√
8 mm. CODOLO	KBM81206	12.7	6.3	8	55	90º	Saldata	**33,56**			**33,56**	**53,12**	√
	KBM81508	16.0	8.0	8	57	90º	Saldata	**41,56**			**41,56**	**68,29**	√
	KBM82012	19.0	9.5	8	59	90º	Saldata	**56,29**			**56,29**	**80,18**	√
	KBM82512	25.0	12.7	8	61	90º	Saldata	**121,26**			**121,26**	**148,34**	

CONICA ARROTONDATA

TIPO L | **MD**






3


NG3


6


NG6


3 INOX

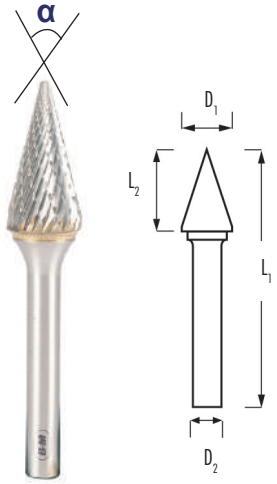
		D1 mm	L2 mm	D2 mm	L1 mm	Angolo	Tipo	Dentatura - P.V.P. 2	3	NG3	4	6	6+TiAlN	NG6	9	3 INOX
3 mm. CODOLO	LBM30310	3.0	10.0	3	38	10º	Monobloc	**17,72**			√	**17,72**	**25,59**		√	
	LBM30312	3.0	14.0	3	38	8º	Monobloc	**10,19**	**23,80**		√	**10,19**	**16,37**		√	
	LBM30512	5.0	12.7	3	38	14º	Monobloc	**39,04**				**39,04**	**56,65**			
	LBM30612	6.3	15.8	3	48	22º	Saldata	**28,50**	**42,47**		√	**29,91**	**49,09**		√	

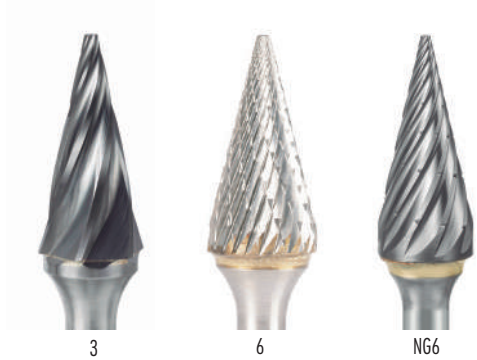
		D1 mm	L2 mm	D2 mm	L1 mm	Angolo	Tipo	Dentatura - P.V.P. 2	3	NG3	4	6	6+TiAlN	NG6	9	3 INOX
6 mm. CODOLO	LBM60618	6.0	18.0	6	50	14º	Monobloc	**21,89**	**31,76**	**47,72**	√	**21,89**	**31,65**	**33,52**	√	
	LBM60822	8.0	22.0	6	66	14º	Saldata	**22,82**	**40,99**		√	**22,82**	**34,77**	**42,29**		**62,65**
	LBM61020	10.0	20.0	6	65	14º	Saldata	**44,00**	**58,73**			**46,15**	**61,52**	**51,80**		**63,42**
	LBM61026	10.0	30.0	6	72	14º	Saldata	**33,08**	**47,67**	**63,76**	√	**33,08**	**49,82**		√	
	LBM61225	12.0	25.0	6	70	14º	Saldata	**56,26**	**69,73**			**58,44**	**79,51**			
	LBM61228	12.0	32.0	6	72	14º	Saldata	**40,90**	**41,99**	**75,80**	√	**40,90**	**59,54**	**61,48**	√	**73,28**
	LBM61533	16.0	33.0	6	74	14º	Saldata	**65,06**	**101,71**		√	**65,06**	**93,19**	**113,06**	√	
	LBM62038	19.0	38.0	6	82	14º	Saldata	**117,18**	**153,02**		√	**117,18**	**144,49**		√	
SERIE LUNGA	LBM61026-176	9.6	30.2	6	176	14º	Saldata	**67,38**	**93,25**			**67,38**	√			
	LBM61228-182	12.7	32.0	6	182	14º	Saldata	**82,48**	**113,82**			**82,48**	√			

		D1 mm	L2 mm	D2 mm	L1 mm	Angolo	Tipo	Dentatura - P.V.P. 2	3	NG3	4	6	6+TiAlN	NG6	9	3 INOX
8 mm. CODOLO	LBM81228	12.7	32.0	8	77	14º	Saldata	**40,51**	**67,85**		√	**40,51**	**59,54**		√	
	LBM81533	16.0	33.0	8	78	14º	Saldata	**64,45**	**100,76**		√	**64,45**	**93,19**		√	
	LBM82038	19.0	41.0	8	86	14º	Saldata	**116,09**	**151,59**		√	**116,09**	**144,49**		√	

FORMA CONICA A PUNTA

TIPO M | **MD**





		D1 mm	L2 mm	D2 mm	L1 mm	Angolo	Tipo	Dentatura - P.V.P. 2	3	4	6	6+TiAlN	NG6	9
3 mm. CODOLO	MBM30308	3.0	8.0	3	38	18º	Monobloc	**17,38**		√	**17,38**	**25,59**		√
	MBM30311	3.0	11.0	3	38	14º	Monobloc	**15,84**	**24,55**	√	**17,00**	**25,57**		√
	MBM30315	3.0	15.0	3	38	10º	Monobloc	**15,91**		√	**15,91**	**22,14**		√
	MBM30612	6.3	17.0	3	49	22º	Saldata	**23,24**	**41,16**	√	**23,91**	**39,47**		√

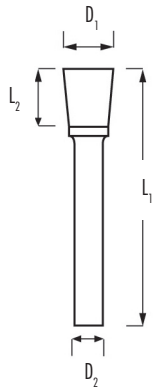
		D1 mm	L2 mm	D2 mm	L1 mm	Angolo	Tipo	Dentatura - P.V.P. 2	3	4	6	6+TiAlN	NG6	9
6 mm. CODOLO	MBM60612	6.0	12,7	6	50	20º	Monobloc	**29,33**			**29,33**	**35,86**		
	MBM60620	6.0	20.0	6	50	14º	Monobloc	**21,45**	**33,74**	√	**21,45**	**34,44**	**31,32**	√
	MBM60625	6.0	25.0	6	50	10º	Monobloc	**35,50**			**35,50**	**53,13**		
	MBM60818	8.0	18.0	6	64	22º	Saldata	**25,49**	**29,81**		**25,49**	**38,70**	**45,08**	
	MBM61020	10.0	20.0	6	64	28º	Saldata	**30,51**	**45,63**	√	**30,51**	**48,36**	**46,20**	√
	MBM61222	12.0	25.0	6	69	28º	Saldata	**40,04**	**58,30**	√	**40,04**	**64,04**	**57,85**	√
	MBM61525	16.0	25.0	6	71	31º	Saldata	**56,36**	**57,56**	√	**56,36**	**81,94**	**92,62**	√

		D1 mm	L2 mm	D2 mm	L1 mm	Angolo	Tipo	Dentatura - P.V.P. 2	3	4	6	6+TiAlN	NG6	9
8 mm. CODOLO	MBM81222	12.7	22.0	8	71	28º	Saldata	**39,67**		√	**39,67**	**64,04**		√
	MBM81525	16.0	25.0	8	71	31º	Saldata	**55,84**		√	**55,84**	**81,94**		√

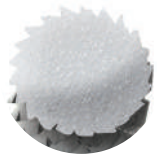
CONO ROVESCIATO

TIPO N **MD**





Esempio:



NBM30304



NBM30304E

TiAlN



3 mm. CODOLO

	D1 mm	L2 mm	D2 mm	L1 mm	Angolo	Tipo	Dentatura - P.V.P. 2	4	6	6+TiAlN	9
NBM30304	3.0	4.0	3	38	10°	Monobloc	**10,08**		**10,17**	**15,78**	√
NBM30304E	3.0	4.0	3	38	10°	Monobloc	**20,88**		**20,88**	**31,65**	
NBM30606	6.3	6.0	3	39	12°	Saldata	**22,45**		**23,19**	**37,17**	√
NBM30606E	6.3	6.4	3	39	12°	Saldata	**26,51**		**26,51**	**38,47**	

6 mm. CODOLO

	D1 mm	L2 mm	D2 mm	L1 mm	Angolo	Tipo	Dentatura - P.V.P. 2	4	6	6+TiAlN	9
NBM60608	6.0	8.0	6	50	10°	Monobloc	**21,62**		**21,82**	**32,31**	√
NBM61010	10.0	10.0	6	54	16°	Saldata	**32,12**		**32,42**	**47,08**	√
NBM61212	12.0	12.0	6	56	28°	Saldata	**37,72**		**38,07**	**58,91**	√
NBM61520	16.0	19.0	6	63	18°	Saldata	**48,62**		**49,08**	**67,48**	√
NBM62015	19.0	16.0	6	60	30°	Saldata	**65,09**		**65,70**	**88,29**	√

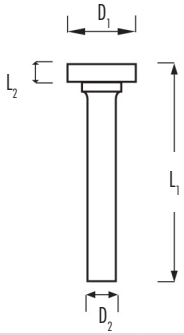
8 mm. CODOLO

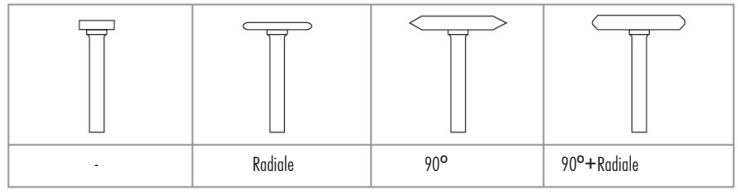
	D1 mm	L2 mm	D2 mm	L1 mm	Angolo	Tipo	Dentatura - P.V.P. 2	4	6	6+TiAlN	9
NBM81212	12.7	12.7	8	58	28°	Saldata	**37,72**		**37,72**	**58,91**	√
NBM81520	16.0	19.0	8	64	18°	Saldata	**48,62**		**48,62**	**67,48**	√

FORMA DISCO

TIPO DISCO **MD**





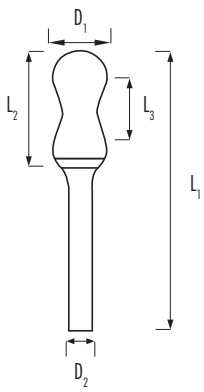


		D1 mm	L2 mm	D2 mm	L1 mm	Angolo	Dentatura - P.V.P. 2	3	4	6	6+TiAlN
3 mm. CODOLO	PBM31001	10.0	1.6	3	34	-	**40,26**				
6 mm. CODOLO	PBM61202	12.0	2.6	6	48	-	**39,53**				
	PBM62503	25.0	3.2	6	48	90º + Radiale	**173,08**				
	PBM62505	25.0	5.5	6	50	90º	**180,54**				
	PBM62506	25.0	6.3	6	51	Radiale	**153,18**				
	PBM63806	38.0	6.1	6	51	90º + Radiale	**372,00**				
8 mm. CODOLO	PBM82503	25.0	3.2	8	48	90º + Radiale	**173,08**				
	PBM82505	25.0	5.5	8	50	90º	**180,54**				
	PBM82506	25.0	6.3	8	51	Radiale	**153,18**				
	PBM83806	38.0	6.1	8	51	90º + Radiale	**372,00**				

FRESA RADIALE

MD





Geometria autocentrante



Arrotonda gli spigoli facilmente



Orientamento facile e preciso



Eccellente finitura superficiale dello spigolo



REFERENZA	Dimensioni - in mm D1	L2	L3	D2	L1	Angolo	€
CBMMN61225-2	12,8	25	16	6	70	20º	**86,09**

FRESE ROTATIVE MICROMETRICHE

MATERIALI

MD | INOX | Ti | Ni | GHISA





Dentatura Standard micro per uso generale

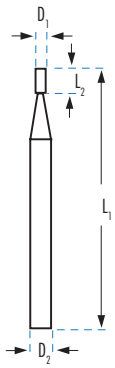
APPLICAZIONI

- Fabbricanti di pezzi di precisione.
- Applicazioni in gioielleria.
- Fabbricazione di pale di turbine.





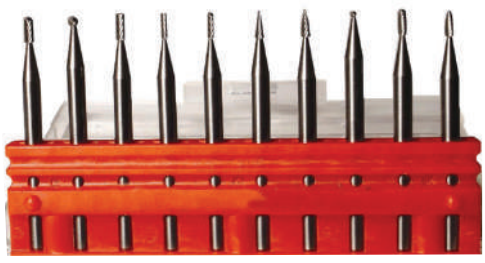

Perforazione precisa di pietre preziose.



			D1 mm	L1 mm	L2 mm	D2 mm	€
TIPO A	Cilindrica serie corta	ABM30104-2M	1,0	38,0	4,0	3,0	**26,27**
		ABM31504-2M	1,5	38,0	4,0	3,0	**26,27**
		ABM30204-2M	2,0	38,0	4,0	3,0	**26,27**
TIPO C	Punta radiale o semisferica	CBM30104-2M	1,0	38,0	4,0	3,0	**26,27**
		CBM31504-2M	1,5	38,0	4,0	3,0	**26,27**
		CBM30204-2M	2,0	38,0	4,0	3,0	**26,27**
TIPO D	Punta sferica	DBM30101-2M	1,0	38,0	1,0	3,0	**26,27**
		DBM31515-2M	1,5	38,0	1,5	3,0	**26,27**
		DBM30202-2M	2,0	38,0	2,0	3,0	**26,27**
TIPO E	Forma ovale	EBM31504-2M	1,5	38,0	4,0	3,0	**26,27**
TIPO F	Forma ogivale arrotondata	FBM31504-2M	1,5	38,0	4,0	3,0	**26,27**
TIPO G	Forma ogivale a punta	GBM31504-2M	1,5	38,0	4,0	3,0	**26,27**
TIPO M	Conica a punta	MBM31504-2M	1,5	38,0	4,0	3,0	**26,27**

Velocità raccomandata 70.000 R.P.M.

SERIE DI FRESE ROTATIVE MICROMETRICHE



BSMicroBM

Contenuto: 10 Frese rotative micrometriche

TIPO A Cilindrica serie corta
ABM30104-2M
ABM31504-2M

TIPO C Punta radiale o semisferica
CBM30104-2M
CBM31504-2M

TIPO D Punta sferica
DBM30101-2M
DBM31515-2M

TIPO E Forma ovale
EBM31504-2M

TIPO F Forma ogivale arrotondata
FBM31504-2M

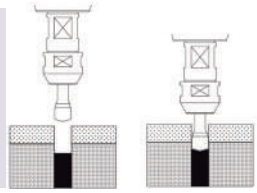
TIPO G Forma ogivale a punta
GBM31504-2M

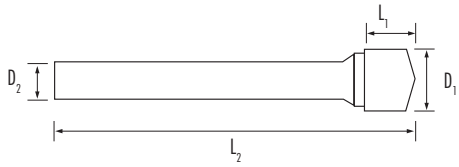
TIPO M Conica a punta
MBM31504-2M

P.V.P.: **262,70**

ROMPI VITI E MASCHI ROTTI

- Rompi viti e maschi rotti con punta centrante. Perfora il nucleo in maniera precisa.
- Riduce il danno generato nella filettatura esistente.
- Usi un estrattore di viti manuale per rimuovere i frammenti.
- Scelga la misura corretta in funzione della misura della vite.
- Utilizzi preferibilmente una smerigliatrice per raggiungere le RPM adeguate e completare l'esito del lavoro.







	Misura vite/maschio	D1 mm	L1 mm	D2 mm	L2 mm	RPM	Tipo	€
K60520-2BR	M6	4,9	5,0	6.0	50,0	60.000	Monobloc	**30,05**
K60705-2BR	M8	6,4	5,0	6.0	50,0	55.000	Saldata	**30,05**
K60805-2BR	M10	7,8	5,0	6.0	50,0	53.000	Saldata	**39,31**
K61005-2BR	M12	9,3	5,0	6.0	50,0	50.000	Saldata	**41,37**
K61105-2BR	M14	10,7	5,2	6.0	50,0	45.000	Saldata	**61,19**

Monobloc: Metallo duro integrale

ASTUCCI DI ESTRATTORI

NEW

REFERENZA	EX/M6K	EX/M8K	EX/M10K
Nº FRESE	4	4	4
METRICA	M6	M8	M10
CONTENUTO	K60520-2BR • BC310490 EFX/1 • EX/1	K60705-2BR • BC310640 EFX/2 • EX/2	K60805-2BR • BC310780 EFX/3 • EX/3
P.V.P. €	**40,86**	**42,55**	**56,07**

NEW

REFERENZA	EX/M12K	EX/M14K
Nº FRESE	4	4
METRICA	M12	M14
CONTENUTO	K61005-2BR • BC310930 EFX/4 • EX/4	K61105-2BR • BC311050 EFX/4 • EX/4
P.V.P. €	**63,08**	**85,07**



ASTUCCI DI PLASTICA DI FRESE ROTATIVE IN METALLO DURO

CODOLO Ø 6 mm.





	PTFRBM31	PTFRBM32	PTFRBM33
Nº FRESE	10	10	10
DENTATURA	6	6	3
QUALITÀ	MD	MD	MD Al
CONTENUTO	ABM61020-6E ABM61225-6E CBM61020-6 CBM61225-6 LBM61228-6 EBM61015-6 GBM61020-6 GBM61225-6 DBM61212-6 FBM61225-6	ABM60820-6E ABM61020-6E CBM60820-6 CBM61020-6 DBM60808-6 DBM61010-6 FBM60820-6 FBM61020-6 LBM60822-6 LBM61026-6	ABM60820-3E ABM61020-3E CBM60820-3 CBM61020-3 DBM60808-3 DBM61010-3 FBM60820-3 FBM61020-3 LBM61026-3 LBM61228-3
P.V.P. €	330,40	247,30	371,13

CODOLO Ø 3 mm.



	PTFRBM34
Nº FRESE	10
DENTATURA	6
QUALITÀ	MD
CONTENUTO	ABM30314-6 ABM30314-6E CBM30312-6 DBM30303-6 EBM30306-6 FBM30312-6 GBM30312-6 HBM30306-6 LBM30312-6 MBM30311-6
P.V.P. €	110,82

CODOLO Ø 6 mm.




	PTFRBM35	PTFRBM36
Nº FRESE	5	5
DENTATURA	6	3
QUALITÀ	MD	MD Al
CONTENUTO	ABM61225-6E MBM61222-6 CBM61225-6 DBM61212-6 FBM61225-6	ABM61225-3E LBM61228-3 CBM61225-3 DBM61212-3 FBM61225-3
P.V.P. €	186,93	257,46

	PTFRBM41	PTFRBM42	PTFRBM43	PTFRBM44
Nº FRESE	4	4	4	4
DENTATURA	6	6	6	3
QUALITÀ	MD	MD	MD	MD Al
CONTENUTO	ABM61225-6E CBM61225-6 FBM61225-6 GBM61225-6	ABM60820-6E CBM60820-6 FBM60820-6 GBM60820-6	ABM61225-6E CBM61225-6 MBM61222-6 GBM61225-6	ABM61225-3E CBM61225-3 FBM61225-3 G61225-3
P.V.P. €	148,88	93,03	153,81	227,81



* Possiamo somministrare altre composizioni su richiesta.

ESPOSITORI DI METACRILATO, MINI ASTUCCI E VALIGETTE DI FRESE ROTATIVE IN METALLO DURO





REFERENZA	EMFRBM-01
Nº FRESE	15
QUALITÀ	MD
CONTENUTO	ABM60618-6E ABM61020-6E ABM61225-6E CBM60618-6 CBM61020-6 CBM61225-6 DBM60606-6 DBM61010-6 DBM61212-6 FBM60618-6 FBM61020-6 FBM61225-6 GBM60618-6 GBM61020-6 GBM61225-6
P.V.P. €	411,27

REFERENZA	EMFRBM-02
Nº FRESE	15
QUALITÀ	MD
CONTENUTO Serie LUNGA	ABM61225-6 ABM61225-6E CBM61225-6 DBM61212-6 EBM61220-6 FBM61225-6 GBM61225-6 HBM61232-6 KBM61206-6 LBM61228-6 MBM60620-6 NBM61212-6 ABM61225-6-150 CBM61225-6-150 FBM61225-6-150
P.V.P. €	689,27

REFERENZA	AUTOMOCIONBM	BBM52
Nº FRESE	8	8
QUALITÀ	MD	MD
CONTENUTO	ABM60820-6E DBM60808-6 LBM61026-6 CBM60820-6 EBM61220-6 MBM61020-6 DBM60606-6 HBM61232-6	ABM61225-6 EBM61220-6 HBM61232-6 CBM61225-6 FBM61225-6 MBM61222-6 DBM61212-6 GBM61225-6
P.V.P. €	244,97	314,61



* Possiamo somministrare altre composizioni su richiesta.



TBM12

CONTENUTO:

* 1 Unità Smerigliatrice 25.000 RPM, 0,55 HP, con azionamento di sicurezza e pinza di 6 mm (gran rendimento in lavori di produzione)
* 5 Unità Frese rotative **Ref. CBM61225-6**
* 5 Unità Frese rotative **Ref. FBM61225-6**
* 1 Unità Condotto d'aria con i suoi raccordi

P.V.P.: **847,97 €**



TBM3

CONTENUTO:

* 1 Unità Smerigliatrice 75.000 RPM, 0,15 HP, pinza di 3 mm
* 10 Unità Frese rotative; manico 3 mm a scelta

P.V.P.: **1.133,61 €**

ESPOSITORI DI METACRILATO DI FRESE ROTATIVE IN METALLO DURO



Ref. **MINILUXBM-1**

MINILUXBM-1

Contenuto: 30 frese rotative in metallo duro

x 1 Unità :	ABM61225-6E	DBM61212-6	GBM61225-6
	CBM61225-6	FBM61225-6	LBM61228-6
x 2 Unità:	ABM60820-6E	DBM60808-6	GBM60820-6
	ABM61020-6E	DBM61010-6	GBM61020-6
	CBM60820-6	FBM60820-6	LBM60822-6
	CBM61020-6	FBM61020-6	LBM61026-6

Dimensioni: larghezza 210 x profonità 210 x altezza 210 mm. **810,74 €**



Ref. **MAXILUXBM-2**

MAXILUXBM-2

Contenuto: 180 frese rotative in metallo duro

x 5 Unità:	ABM60618-6	DBM60606-6	MBM60620-6
	ABM60820-6	DBM60808-6	MBM61020-6
	ABM61020-6	DBM61010-6	MBM61222-6
	ABM61225-6	DBM61212-6	LBM60618-6
	ABM60618-6E	FBM60618-6	LBM60822-6
	ABM60820-6E	FBM60820-6	LBM61026-6
	ABM61020-6E	FBM61020-6	LBM61228-6
	ABM61225-6E	FBM61225-6	HBM60820-6
	CBM60618-6	GBM60618-6	HBM61232-6
	CBM60820-6	GBM60820-6	EBM60815-6
	CBM61020-6	GBM61020-6	EBM61015-6
	CBM61225-6	GBM61225-6	EBM61220-6

Dimensioni: larghezza 250 x profonità 365 x altezza 235 mm. **5.129,70 €**



Ref. **BSBM40**

BSBM40

Contenuto: 40 frese rotative in metallo duro

x 2 Unità:	ABM60618-6E	FBM60618-6	LBM60618-6
	ABM60820-6E	FBM60820-6	LBM60822-6
	ABM61020-6E	FBM61020-6	LBM61026-6
	ABM61225-6E	FBM61225-6	LBM61228-6
	CBM60618-6	GBM60618-6	
	CBM60820-6	GBM60820-6	
	CBM61020-6	GBM61020-6	
	CBM61225-6	GBM61225-6	

Dimensioni: larghezza 65 x profonità 245 x altezza 300 mm. **1.102,12 €**

SMERIGLIATRICI PER FRESE ROTATIVE



L'ampia e completa gamma di frese rotative è completa di una gamma di smerigliatrici che permettono di massimizzarne l'efficienza e la produttività.

Con un'ottima relazione tra potenza e peso, la gamma di smerigliatrici dispone di 3 modelli orientati a svariati settori come aeronautico, fonderia, autotrazione, cantieri navali, ecc.

La gamma di utensili pneumatici industriali ottimizza i risultati in tutti i tipi di applicazioni, levigatura, pulitura, rettificazione, sgrossatura e finitura di superfici.

Offrono la miglior soluzione, la più sicura e affidabile per tutte le applicazioni di sgrossatura e finitura.







PROLUNGA FLESSIBILE PER SMERIGLIATRICE





- La prolunga permette un maggiore controllo dell'utensile nei lavori di precisione.
- Compatibile con la maggior parte degli utensili rotativi. Legame (19x2mm). Adatto per utensili con codolo Ø 3 mm.
- Ideale per lavori di precisione in luoghi di difficile accesso.
- Velocità massima di lavoro 28.000 RPM.

L :1070 mm

RTFD
16,57 €

SMERIGLIATRICI PER FRESE ROTATIVE



SMERIGLIATRICE AD ALTA POTENZA – P25
- Motore con maggiore potenza e minore consumo d'aria.
- Valvola di accelerazione per un'azione di avviamento più dolce.
- Nuovo design per una maggiore ergonomia, comodità e isolamento dell'operatore.
- Azionamento con controllo di sicurezza.

	R.P.M. 6.3 BAR	POTENZA HP	PESO Kg.	D1 x L1 mm	PROLUNGA portafresa	Ø mm. PINZA	USCITA D'ARIA	OPZIONE MOTORE DI RICAMBIO	€
P25	25.000	1.10	0,73	36 x 152	Senza prolunga	6 mm.	Posteriore	SÌ	**722,60**



NUOVA SMERIGLIATRICE ANTI-VIBRAZIONE - P25LR
- Unica con sistema anti-vibrazione.
- Valvola di accelerazione per un'azione di avviamento più dolce.
- Consigliato per lavori di lunga durata.
- Per lavori di alta produzione che richiedono una maggiore precisione e controllo del processo.
- Nuovo design per una maggiore ergonomia, comodità e isolamento dell'operatore grazie al suo sistema di ammortizzamento.
- Azionamento con controllo di sicurezza.

	R.P.M. 6.3 BAR	POTENZA HP	PESO Kg.	D1 x L1 mm	PROLUNGA portafresa	Ø mm. PINZA	USCITA D'ARIA	OPZIONE MOTORE DI RICAMBIO	€
P25LR	25.000	1.10	0,80	36 x 160	Senza prolunga	6 mm.	Posteriore	SÌ	**821,40**



SMERIGLIATRICE MANICO EXTRA LUNGO - P25XLR
- Motore con maggiore potenza e minore consumo d'aria.
- Valvola di accelerazione per un'azione di avviamento più dolce.
- Manico ergonomico extra lungo che permette l'utilizzo con le due mani, ottenendo così un maggiore controllo e precisione durante il processo.
- Per applicazioni ad accesso complicato.

	R.P.M. 6.3 BAR	POTENZA HP	PESO Kg.	D1 x L1 mm	PROLUNGA portafresa	Ø mm. PINZA	USCITA D'ARIA	OPZIONE MOTORE DI RICAMBIO	€
P25XLR	25.000	1.10	1,3	40 x 345	33 x 177	6 mm.	Posteriore	NO	**1.086,98**

Consultare la tariffa dei pezzi di ricambio.

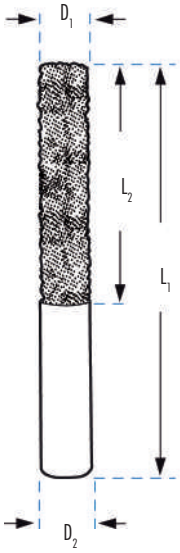
FRESE ROTATIVE IN DIAMANTE



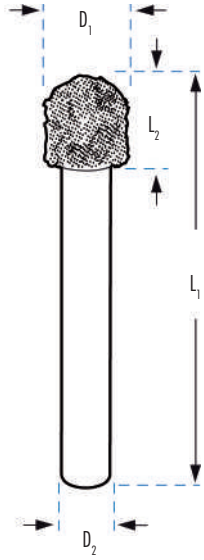
APPLICAZIONI

Costruzione:
- Pietra, porcellanico, marmo, granito

Materiali composti:
- Fibra di vetro, fibra di carbonio, cristallo, poliestere, plastiche in generale









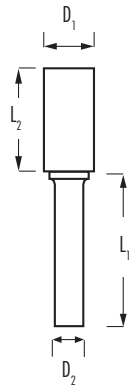
					A..D
	D1 mm	D2 mm	L1 mm	L2 mm	€
A30211D	2,40	3	38	11,00	**31,47**
A30314D	3,00	3	38	14,00	**34,40**
A30605D	6,35	3	44	4,70	**34,26**
A30612D	6,35	3	51	12,70	**46,30**
A60610D	6,00	6	50	10,00	**47,89**
A60820D	8,00	6	64	19,20	**52,39**
A80838D	8,00	8	66	38,00	**75,04**
A61020D	9,60	6	64	19,00	**57,08**
A61125D	11,00	6	70	25,40	**76,36**
A61220D	12,50	6	64	19,20	**75,41**
A61225D	12,50	6	70	25,40	**78,75**
A61525D	15,80	6	70	25,40	**94,67**
A62025D	19,20	6	70	25,40	**125,74**
A62525D	25,00	6	70	25,40	**145,02**

					C..D
	D1 mm	D2 mm	L1 mm	L2 mm	€
C30211D	2,40	3	38	11,00	**35,80**
C30612D	6,35	3	51	12,70	**49,98**
C60618D	6,00	6	50	18,00	**54,47**
C60820D	8,00	6	64	19,20	**59,60**
C60840D	8,00	6	64	38,00	**67,03**
C80838D	8,00	8	66	38,00	**70,84**
C61020D	9,60	6	64	19,20	**63,94**
C61011D	10,00	6	50	11,00	**87,77**
C61035D	10,00	6	66	35,00	**68,22**
C61125D	11,00	6	70	25,40	**85,52**
C61220D	12,50	6	64	19,20	**84,46**
C61225D	12,50	6	70	25,40	**88,19**
C61525D	15,80	6	70	25,40	**106,04**
C62025D	19,20	6	70	25,40	**140,83**
C62525D	25,00	6	70	25,40	**162,42**

MOLA CERAMICA CILINDRICA

TIPO A





3 mm. CODOLO

	D1 mm	L2 mm	D2 mm	L1 mm	A €
MA030408V	4.0	8.0	3	32	**3,90**
MA030510V	5.0	10.0	3	32	**3,97**
MA030515V	5.0	15.0	3	32	**4,08**
MA030613V	6.0	13.0	3	32	**3,97**
MA030625V	6.0	25.0	3	32	**6,15**
MA030810V	8.0	10.0	3	32	**4,08**
MA030816V	8.0	16.0	3	32	**5,49**
MA031013V	10.0	13.0	3	32	**5,49**
MA031313V	13.0	13.0	3	32	**4,83**
MA031340V	13.0	40.0	3	32	**8,61**
MA032050V*	20.0	50.0	3	32	**10,36**

* Fino ad esaurimento scorte

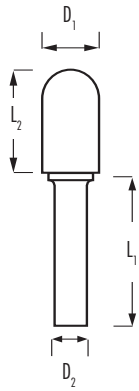
6 mm. CODOLO

	D1 mm	L2 mm	D2 mm	L1 mm	A €
MA060510V*	5.0	10.0	6	32	**4,24**
MA060515V*	5.0	15.0	6	32	**4,34**
MA060613V	6.0	13.0	6	32	**4,24**
MA060625V	6.0	25.0	6	32	**6,54**
MA060810V	8.0	10.0	6	32	**4,34**
MA060816V	8.0	16.0	6	32	**5,86**
MA061013V	10.0	13.0	6	32	**4,84**
MA061020V	10.0	20.0	6	32	**6,15**
MA061025V	10.0	25.0	6	32	**6,54**
MA061032V	10.0	32.0	6	32	**7,36**
MA061313V	13.0	13.0	6	32	**5,16**
MA061320V	13.0	20.0	6	32	**5,95**
MA061325V	13.0	25.0	6	32	**6,34**
MA061340V	13.0	40.0	6	32	**9,19**
MA061610V	16.0	10.0	6	32	**6,06**
MA061620V	16.0	20.0	6	32	**6,34**
MA062010V	20.0	10.0	6	32	**6,34**
MA062020V	20.0	20.0	6	32	**6,66**
MA062025V	20.0	25.0	6	32	**7,07**
MA062032V	20.0	32.0	6	32	**7,86**
MA062040V	20.0	40.0	6	32	**9,47**
MA062050V	20.0	50.0	6	32	**10,90**
MA062510V	25.0	10.0	6	32	**6,96**
MA062513V	25.0	13.0	6	32	**7,07**
MA062516V	25.0	16.0	6	32	**7,16**
MA062525V	25.0	25.0	6	32	**7,97**
MA062532V	25.0	32.0	6	32	**8,88**
MA062540V	25.0	40.0	6	32	**10,28**
MA063216V	32.0	16.0	6	32	**7,56**
MA063220V	32.0	20.0	6	32	**7,97**
MA063232V	32.0	32.0	6	32	**9,69**
MA063240V	32.0	40.0	6	32	**12,22**
MA064010V	40.0	10.0	6	32	**9,60**
MA064015V	40.0	15.0	6	32	**11,00**
MA064020V	40.0	20.0	6	32	**11,81**
MA064040V	40.0	40.0	6	32	**15,95**
MA065013V	50.0	13.0	6	32	**12,53**
MA065025V	50.0	25.0	6	32	**15,54**
MA065040V	50.0	40.0	6	32	**18,68**

MOLA CERAMICA CILINDRICA PUNTA RADIALE

TIPO C





6 mm. CODOLO

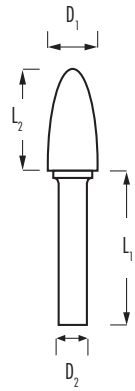
C

	D1 mm	L2 mm	D2 mm	L1 mm	€
MC060510V	5.0	10.0	6	32	**5,51**
MC060816V	8.0	16.0	6	32	**7,60**
MC061320V	13.0	20.0	6	32	**7,73**
MC062025V	20.0	25.0	6	32	**9,19**
MC062532V	25.0	32.0	6	32	**11,54**

MOLA CERAMICA OGIVALE

TIPO F





6 mm. CODOLO

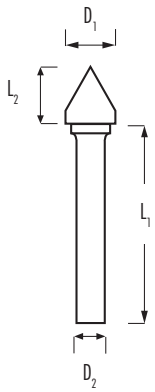
F

	D1 mm	L2 mm	D2 mm	L1 mm	€
MF060510V	5.0	10.0	6	32	**5,51**
MF060816V	8.0	16.0	6	32	**7,60**
MF061320V	13.0	20.0	6	32	**7,73**
MF062032V	20.0	32.0	6	32	**10,23**
MF062050V	20.0	50.0	6	32	**14,16**
MF062540V	25.0	40.0	6	32	**13,38**

MOLA CERAMICA CONICA

TIPO M





6 mm. CODOLO

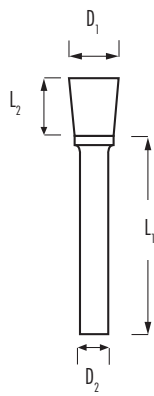
M

	D1 mm	L2 mm	D2 mm	L1 mm	€
MM061010V	10.0	10.0	6	32	**5,65**
MM061025V	10.0	25.0	6	32	**8,52**
MM061313V	13.0	13.0	6	32	**6,68**
MM061616V	16.0	16.0	6	32	**7,99**
MM061645V	16.0	45.0	6	32	**14,16**
MM062020V	20.0	20.0	6	32	**8,66**
MM062032V	20.0	32.0	6	32	**10,23**
MM062040V	20.0	40.0	6	32	**12,33**
MM062525V	25.0	25.0	6	32	**10,36**
MM062545V	25.0	45.0	6	32	**14,43**
MM063232V	32.0	32.0	6	32	**12,59**
MM063250V	32.0	50.0	6	32	**20,20**

MOLA CERAMICA CONO ROVESCIATO

TIPO N





6 mm. CODOLO

N

	D1 mm	L2 mm	D2 mm	L1 mm	€
MN062016V	20.0	16.0	6	32	**9,83**
MN062520V	25.0	20.0	6	32	**11,35**
MN063225V	32.0	25.0	6	32	**13,32**
MN064032V	40.0	32.0	6	32	**20,73**

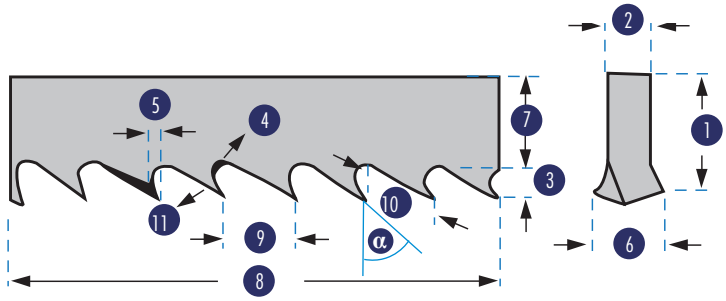
BLUE-MASTER®
by celesa



LAME A NASTRO

TERMINOLOGIA DELLA LAMA A NASTRO

1. **LARGHEZZA:** Dalla punta del dente alla parte posteriore della lama.
2. **SPESSORE:** Lo spessore della lama.
3. **DENTE:** La parte tagliente di una lama.
4. **GOLA:** L'area curva alla base del dente.
5. **FACCIA DEL DENTE:** Superficie tagliente del dente.
6. **STRADATURA:** Inclinatura dei denti a destra e sinistra che permette alla parte posteriore della lama (corpo della lama) di non sfregare contro il materiale.
7. **CORPO DELLA LAMA:** Il corpo della lama senza includere i denti da taglio.
8. **DENTI PER POLLICE (T.P.I.):** Nº di denti per 25.4 mm di lunghezza.
9. **PASSO DEL DENTE:** Distanza dalla punta di un dente alla punta del seguente.
10. **PROFONDITÀ GOLA:** Distanza dalla punta del dente al fondo della gola.
11. **RETRO DEL DENTE:** Superficie del dente opposta alla parte tagliente.



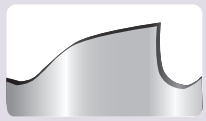
ANGOLO DI SPOGLIA/ TIPI DI FORME E DENTI

La scelta della dentatura è molto importante per lavorare diversi spessori con lame a nastro. Se per comodità non utilizziamo quella adeguata, dobbiamo sapere che il rendimento della lama sarà sottoposto a rottura dei denti o all'usura prematura degli stessi.



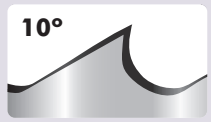
DENTE NORMALE

Dispone di un angolo di taglio normale a 0º. È adatto per materiali ad alto contenuto di carbonio, come la ghisa, ed è indicato per materiali di piccole sezioni, profilati e tubi di pareti strette.



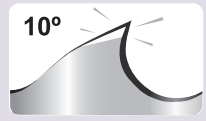
RINFORZATI

Dentatura rinforzata con stradatura extra specifica per il taglio di strutture e profili. Evita di cancellare la dentatura. Particolarmente indicato per macchine manuali, con giochi e vibrazioni.



TIPO GANCIO HR

Dispone di un angolo di taglio di 10º. Questa forma è indicata per materiali pieni e tubi di pareti grosse e tutti i materiali alto legati.

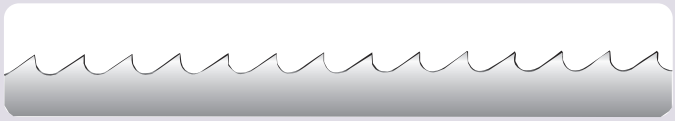


MASTER

Il dente Master è fabbricato sulla base di un design alto-basso a triplo truciolo, riconosciuto come uno dei più efficaci nella tecnologia e ingegneria di taglio. È studiato per soddisfare un'ampia gamma di acciai difficili e leghe esotiche.

TIPOLOGIA PASSO DEI DENTI

Il passo del dente si misura in numero di denti per pollice. Nel passo variabile i due numeri rappresentano il maggiore e il minor numero di denti per pollice e gruppo.



PASSO CONTINUO:

La distanza tra i denti è costante lungo tutta la lama. È ideale per il taglio di materiali pieni su macchine da taglio con fissaggio efficiente.

Molto efficace su acciai alto legati e leghe esotiche.



PASSO VARIABILE:

La dentatura variabile si basa su gruppi di differente passo dei denti, che si ripetono ad intervalli regolari lungo la lama. Il concetto ha come obiettivo quello di ridurre la vibrazione e la risonanza durante il taglio. Il taglio di pareti strette e materiali in gruppi o pezzi legati o con un fissaggio allentato sono applicazioni tipiche per le dentature variabili.

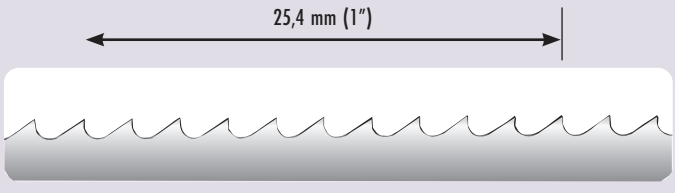
QUANDO UTILIZZARE LA DENTATURA VARIABILE E QUANDO LA DENTATURA COSTANTE?

DENTATURA VARIABILE	DENTATURA COSTANTE
• Acciai • Acciai Inossidabili • Bronzo	• Ottone • Alluminio • Rame • Legno



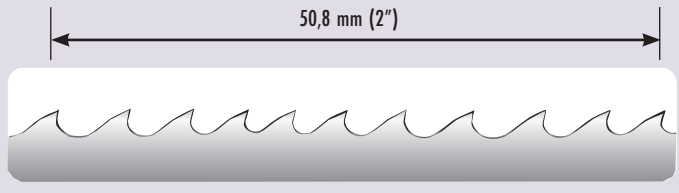
COME IDENTIFICARE UNA DENTATURA CONCRETA?

COSTANTE



10 gole = 10 RR

VARIABILE



10 gole = 4/6

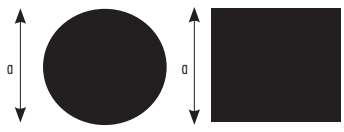
CONSIGLI PER LA GIUSTA SCELTA DELLA DENTATURA

DENTATURE ADEGUATE PER TUBI E PROFILATI



SPESSORE e \ DIMENSIONE a	20	40	60	80	100	120	150	200	300	500
2	12/16 Rinforzata	10/14 Rinforzata	10/14 Rinforzata	10/14 Rinforzata	10/14 Rinforzata	10/14 Rinforzata	10/14 Rinforzata	8/11	8/11	7/9
3	12/16 Rinforzata	10/14 Rinforzata	10/14 Rinforzata	10/14 Rinforzata	8/11	8/11	8/11	8/11	7/9	7/9
4	10/14 Rinforzata	10/14 Rinforzata	8/11	8/11	8/11	7/9	7/9	7/9	5/7	4/6 Rinforzata
5	10/14 Rinforzata	8/11	8/11	8/11	7/9	7/9	5/7	5/7	5/7	4/6 Rinforzata
6	10/14 Rinforzata	8/11	8/11	7/9	5/7	5/7	5/7	4/6 Rinforzata	4/6 Rinforzata	4/6 Rinforzata
8	10/14 Rinforzata	8/11	7/9	7/9	5/7	5/7	4/6 Rinforzata	4/6 Rinforzata	4/6 Rinforzata	4/6 Rinforzata
10		7/9	7/9	5/7	5/7	5/7	4/6 Rinforzata	4/6 Rinforzata	4/6 Rinforzata	3/4 Rinforzata
12		7/9	5/7	5/7	4/6 Rinforzata	4/6 Rinforzata	4/6 Rinforzata	4/6 Rinforzata	4/6 Rinforzata	3/4 Rinforzata
15		7/9	5/7	4/6 Rinforzata	4/6 Rinforzata	4/6 Rinforzata	4/6 Rinforzata	3/4 Rinforzata	3/4 Rinforzata	3/4 Rinforzata
20			4/6 Rinforzata	4/6 Rinforzata	3/4 Rinforzata	3/4 Rinforzata	3/4 Rinforzata	2/3 Rinforzata	2/3 Rinforzata	2/3 Rinforzata
30				4/6 Rinforzata	3/4 Rinforzata	3/4 Rinforzata	3/4 Rinforzata	2/3 Rinforzata	2/3 Rinforzata	2/3 Rinforzata
50							3/4 Rinforzata	2/3 Rinforzata	2/3 Rinforzata	2/3 Rinforzata
80								2/3 Rinforzata	2/3 Rinforzata	1,5/2
>100									1,5/2	1,5/2

SEZIONI PIENE



Al


Non ferrosi



SOLIDOS		ALU/MADERA	
<25	10/14	<10	14
15-40	8/12	10-30	10
25-50	6/10	30-50	8
35-70	5/8	50-80	6
40-90	5/6	80-120	4
50-120	4/6	120-200	3
80-180	3/4	200-400	2
130-350	2/3	300-700	1,25
150-450	1,5/2	>700	0,75
200-600	1/1,15		
>600	075/1,25		

LAME A NASTRO BIMETALLICHE

6 mm x 0,65 mm (1/4" x 0,025")

QUALITÀ: M42 (8% Co)

LUNGHEZZA mm	€	DENTATURE DISPONIBILI
1.325	27,69	
1.425	29,14	
1.500	30,22	
1.680	32,81	
2.000	37,42	
2.370	42,13	
2.600	46,05	
2.700	47,50	
2.730	47,93	
2.760	48,37	
2.860	49,81	
2.900	50,38	
3.000	51,82	
3.100	53,26	
3.135	53,76	
3.300	56,13	
3.320	56,42	
3.353	56,90	
3.840	63,91	

Ref.	TPI	α
560	6 HR	Gancio 10º
561	10/14	0º

6 mm x 0,90 mm (1/4" x 0,035")

QUALITÀ: M42 (8% Co)

LUNGHEZZA mm	€	DENTATURE DISPONIBILI
1.325	27,69	
1.425	29,14	
1.500	30,22	
1.680	32,81	
2.000	37,42	
2.370	42,13	
2.600	46,05	
2.700	47,50	
2.730	47,93	
2.760	48,37	
2.860	49,81	
2.900	50,38	
3.000	51,82	
3.100	53,26	
3.135	53,76	
3.300	56,13	
3.320	56,42	
3.353	56,90	
3.840	63,91	

Ref.	TPI	α
501	6 HR	Gancio 10º
504	10/14	0º

La referenza denomina le caratteristiche geometriche della lama, larghezza, spessore, tipo di dentatura e qualità.

COME EFFETTUARE UN ORDINE:
Al momento dell'ordine, indichi la referenza e la lunghezza in mm.



ESEMPIO:
1U.1325 mm Ref.504 = 1U.1325 x 6,5 x 0,9 dentatura 10/14 variabile 0º

- Per altre lunghezze intermedie di cui non è indicata la tariffa, si applicherà il prezzo della lunghezza immediatamente superiore.

ROTOLI DI 15 METRI

QUALITÀ: M42 (8% Co)

	DENTATURE	€
560	6 HR Gancio 10º	216,05
561	10/14 0°	216,05

ROTOLI DI 15 METRI

QUALITÀ: M42 (8% Co)

	DENTATURE	€
501	6 HR Gancio 10º	216,05
504	10/14 0°	216,05

ROTOLI DI 30 METRI

QUALITÀ: M42 (8% Co)

	DENTATURE	€
560	6 HR Gancio 10º	432,10
561	10/14 0°	432,10

ROTOLI DI 30 METRI

QUALITÀ: M42 (8% Co)

	DENTATURE	€
501	6 HR Gancio 10º	432,10
504	10/14 0°	432,10

LAME A NASTRO BIMETALLICHE

10 mm x 0,65 mm (3/8" x 0,025")

QUALITÀ: M42 (8% Co)

LUNGHEZZA mm	€	DENTATURE DISPONIBILI
1.137	24,98	
1.140	25,03	
1.300	27,33	
1.325	27,69	
1.340	27,91	
1.350	28,07	
1.500	30,22	
1.580	31,37	
1.660	32,53	
2.360	42,59	
2.640	46,63	
2.720	47,80	
2.800	48,93	
2.900	50,38	
2.945	51,02	
3.250	55,41	
3.300	56,13	
3.350	56,87	
3.353	56,90	
3.400	57,58	
3.800	63,34	

Ref.	TPI	α
512	6 HR	Gancio 10º
510	10/14	0º

10 mm x 0,90 mm (3/8" x 0,035")

QUALITÀ: M42 (8% Co)

LUNGHEZZA mm	€	DENTATURE DISPONIBILI
1.137	24,98	
1.140	25,03	
1.300	27,33	
1.325	27,69	
1.340	27,91	
1.350	28,07	
1.500	30,22	
1.580	31,36	
1.660	32,53	
2.360	42,59	
2.640	46,63	
2.720	47,80	
2.800	48,93	
2.900	50,38	
2.945	51,02	
3.250	55,41	
3.300	56,13	
3.350	56,87	
3.353	56,90	
3.400	57,58	
3.800	63,34	

Ref.	TPI	α
511	4 HR	Gancio 10º
911	6 HR	Gancio 10º
514	10 RR	0º
516	10/14	0º

La referenza denomina le caratteristiche geometriche della lama, larghezza, spessore, tipo di dentatura e qualità.

COME EFFETTUARE UN ORDINE:
Al momento dell'ordine, indichi la referenza e la lunghezza in mm.



ESEMPIO:
1U. 2720 mm Ref.911 = 1U. 2720 x 10 x 0,9 dentatura 6HR tipo gancio 10º

- Per altre lunghezze intermedie di cui non è indicata la tariffa, si applicherà il prezzo della lunghezza immediatamente superiore.

ROTOLI DI 15 METRI

QUALITÀ: M42 (8% Co)

	DENTATURE	€
512	6 HR Gancio 10º	216,05
510	10/14 0°	216,05

ROTOLI DI 30 METRI

QUALITÀ: M42 (8% Co)

	DENTATURE	€
512	6 HR Gancio 10º	432,10
510	10/14 0°	432,10

ROTOLI DI 15 METRI

QUALITÀ: M42 (8% Co)

	DENTATURE	€
511	4 HR Gancio 10º	216,05
911	6 HR Gancio 10º	216,05
514	10 RR 0º	216,05
516	10/14 0°	216,05

ROTOLI DI 30 METRI

QUALITÀ: M42 (8% Co)

	DENTATURE	€
511	4 HR Gancio 10º	432,10
911	6 HR Gancio 10º	432,10
514	10 RR 0º	432,10
516	10/14 0°	432,10

LAME A NASTRO BIMETALLICHE

13 mm x 0,65 mm (1/2" x 0,025")

QUALITÀ: M42 (8% Co)

LUNGHEZZA mm	€	DENTATURE DISPONIBILI
1.135	24,56	
1.138	24,56	
1.140	24,56	
1.300	26,88	
1.315	27,09	
1.320	27,17	
1.325	27,17	
1.330	27,24	
1.335	27,43	
1.340	27,43	
1.350	27,57	
1.360	27,73	
1.368	27,86	
1.370	27,86	
1.440	29,00	
1.450	29,00	
1.470	31,19	
1.605	31,19	
1.620	31,42	
1.625	31,55	
1.630	31,55	
1.638	31,60	
1.640	31,60	
1.645	31,69	
1.650	31,75	
1.660	31,98	
1.730	32,97	
1.735	33,18	
1.750	33,18	
1.755	33,32	
2.375	42,02	
2.390	42,32	
2.410	42,90	

Ref.	TPI	α
530	4 HR	Gancio 10º
531	6 HR	Gancio 10º
533	14 RR	0º
534	18 RR	0º
913	6/10	0º
713	8/11	Rinforzata
535	8/12	0º
536	10/14	0º

Larghezza 13x0,50 Spessore

Ref.	TPI	A
821*	10/14	0º
822*	10 RR	0º
823*	14 RR	0º
824*	18 RR	0º
825*	24 RR	0º

*Fino ad esaurimento scorte.

13 mm x 0,90 mm (1/2" x 0,035")

QUALITÀ: M42 (8% Co)

LUNGHEZZA mm	€	DENTATURE DISPONIBILI
1.130	24,90	
1.140	25,03	
1.325	27,70	
1.330	27,77	
1.460	29,64	
1.635	32,16	
1.638	32,21	
1.640	32,22	
1.645	32,30	
1.650	32,38	
1.750	33,82	
2.340	42,33	
2.375	42,83	
2.665	47,00	
3.300	56,13	
3.800	63,34	
5.445	87,04	
6.200	97,92	

Ref.	TPI	α
541	3 HR	Gancio 10º
542	4 HR	Gancio 10º
543	6 HR	Gancio 10º
546	14 RR	0º
548	6/10	0º
712	8/11	Rinforzata
829	8/12	0º
547	10/14	0º

La referenza denomina le caratteristiche geometriche della lama, larghezza, spessore, tipo di dentatura e qualità.

COME EFFETTUARE UN ORDINE:
Al momento dell'ordine, indichi la referenza e la lunghezza in mm.

ESEMPIO:
1U. 1650 mm Ref.545 = 1U. 1650 x 13 x 0,9 dentatura 10RR costante 0º

- Per altre lunghezze intermedie di cui non è indicata la tariffa, si applicherà il prezzo della lunghezza immediatamente superiore.

ROTOLI DI 15 METRI

QUALITÀ: M42 (8% Co)

	DENTATURE	€
541	3 HR Gancio 10º	216,05
542	4 HR Gancio 10º	216,05
543	6 HR Gancio 10º	216,05
546	14 RR 0°	216,05
547	10/14 0°	216,05

ROTOLI DI 30 METRI

QUALITÀ: M42 (8% Co)

	DENTATURE	€
541	3 HR Gancio 10º	432,10
542	4 HR Gancio 10º	432,10
543	6 HR Gancio 10º	432,10
546	14 RR 0°	432,10
547	10/14 0°	432,10

LAME A NASTRO BIMETALLICHE

20 mm x 0,90 mm (3/4" x 0,035")



M42 (8% Co)

STANDARD M42

LUNGHEZZA mm	€
1.363	28,24
1.620	31,95
1.645	32,30
1.765	34,02
2.000	37,42
2.060	38,27
2.090	38,71
2.100	38,85
2.225	40,65
2.300	41,74
2.350	42,45
2.362	42,63
2.375	42,83
2.630	46,49
2.825	49,31
2.850	49,66
2.970	51,39
3.000	51,82
3.100	53,98
3.350	55,75
3.425	57,95
3.660	61,33
3.830	63,77
4.525	73,79

DENTATURE DISPONIBILI



Ref. 460 - 3 HR (Gancio 10º)

Ref.	TPI	α
551	3 HR	Gancio 10º
552	4 HR	Gancio 10º
908	14 RR	0º
903	4/6	10º
904	5/8	10º
907	6/10	0º
905	8/12	0º
906	10/14	0º





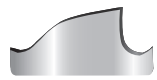
M42 (8% Co)

PROFILATI

LUNGHEZZA mm	€
1.363	28,24
1.620	31,95
1.645	32,30
1.765	34,02
2.000	37,42
2.060	38,27
2.090	38,71
2.100	38,85
2.225	40,65
2.300	41,74
2.350	42,45
2.362	42,63
2.375	42,83
2.630	46,49
2.825	49,31
2.850	49,66
2.970	51,39
3.000	51,82
3.100	53,98
3.350	55,75
3.425	57,95
3.660	61,33
3.830	63,77
4.525	73,79

DENTATURE DISPONIBILI

Ref.	TPI	α
732	4/6	Rinforzata
723	5/7	Rinforzata
724	8/11	Rinforzata
733	12/16	Rinforzata

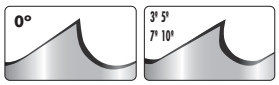


Dentatura rinforzata con stradatura extra specifica per il taglio di strutture e profili. Evita di cancellare la dentatura. Particolarmente indicato per macchine manuali, con giochi e vibrazioni.



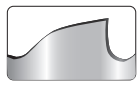
STANDARD M42

Seghe multiuso di qualità per tutti i tipi di SOLIDI.



PROFILATI

Seghe a DENTE RINFORZATO per Strutture, Profili, Tubi e Pieni.





LAME A NASTRO BIMETALLICHE

27 mm x 0,90 mm (1" x 0,035")

QUALITÀ:	M42 (8% Co)	M51 (10% Co)	M42 (8% Co)
LUNGHEZZA mm	STANDARD M42	TOP PRODUZIONE M51	PROFILATI
	€	€	€
2.000	36,83	45,49	38,15
2.070	36,83	45,49	38,15
2.080	42,06	51,92	43,56
2.150	42,06	51,92	43,56
2.370	42,06	51,92	43,56
2.450	42,38	52,31	43,89
2.460	43,35	53,52	44,91
2.480	44,63	55,09	46,23
2.550	44,63	55,09	46,23
2.600	45,34	55,97	46,97
2.700	46,78	57,75	48,45
2.750	47,49	58,63	49,19
2.765	47,70	58,89	49,41
2.825	48,56	59,94	50,30
2.845	50,28	62,07	52,09
2.850	50,28	62,07	52,09
2.945	50,28	62,07	52,09
3.010	53,62	66,21	55,55
3.100	53,62	66,21	55,55
3.180	53,62	66,21	55,55
3.420	57,07	70,46	59,13
3.505	58,28	71,96	60,37
3.660	58,28	71,96	60,37
3.857	63,31	78,15	65,58
4.100	66,78	82,44	69,17
4.250	68,93	85,09	71,40
4.570	73,50	90,73	76,13
4.870	77,78	96,03	80,57
5.000	79,63	98,32	82,50

DENTATURE DISPONIBILI

Ref.	TPI	α
916	2 HR	Gancio 10º
918	3 HR	Gancio 10º
914	4 HR	Gancio 10º
915	6 HR	Gancio 10º
973*	14 RR	0º
927	2/3	10º
928	3/4	10º
929	4/6	10º
975	5/8	10º
970	6/10	0º
971	8/12	0º
969	10/14	0º



DENTATURE DISPONIBILI

Ref.	TPI	α
207	2/3	10º
205	3/4	10º
206	4/6	10º

Alto Rendimiento





DENTATURE DISPONIBILI

Ref.	TPI	α
715	3/4	Rinforzata
152	4/6	Rinforzata
717	5/7	Rinforzata
721	7/9	Rinforzata
719	8/11	Rinforzata
722	10/14	Rinforzata
731	12/16	Rinforzata

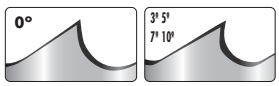
Dentatura rinforzata con stradatura extra specifica per il taglio di strutture e profili. Evita di cancellare la dentatura. Particolarmente indicato per macchine manuali, con giochi e vibrazioni.



*Le dentature 14RR sono adatte per il taglio di pannelli sandwich.

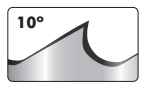
STANDARD M42

Seghe multiuso di qualità per tutti i tipi di SOLIDI.



TOP PRODUZIONE M51

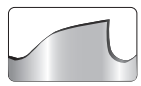
Seghe di altissima qualità per solidi legati e inossidabili.



Macizos redondos y cuadrados.

PROFILATI

Seghe a DENTE RINFORZATO per Strutture, Profili, Tubi e Pieni.



RINFORZATI



LAME A NASTRO CON DENTI IN METALLO DURO

PVP/m saldato

	1,4/2,0	€	2/3	€	3/4	€
27x0,90			1003	90,56	1006	111,25
34x1,10	1001	88,46	1004	99,52	1007	126,29
41x1,30	1002	91,23	1005	105,85		

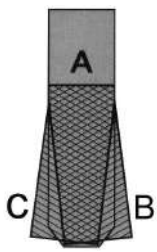
Lama adatta per sezioni fino a 700mm in materiali duri e problematici.

LAME A NASTRO BIMETALLICHE

27 mm x 0,90 mm (1" x 0,035")

QUALITÀ:	M42 (8% Co)		M42 (8% Co)	
	MASTER		ALLUMINIO/LEGNO	
LUNGHEZZA mm	€	DENTATURE DISPONIBILI	€	DENTATURE DISPONIBILI
2.000	44,21		36,83	
2.070	44,21		36,83	
2.080	50,46		42,06	
2.150	50,46		42,06	
2.370	50,46		42,06	
2.450	50,85		42,38	
2.460	52,02		43,35	
2.480	53,55		44,63	
2.550	53,55		44,63	
2.600	54,40		45,34	
2.700	56,13		46,78	
2.750	56,99		47,49	
2.765	57,24		47,70	
2.825	58,26		48,56	
2.845	60,33		50,28	
2.850	60,33		50,28	
2.945	60,33		50,28	
3.010	64,36		53,62	
3.100	64,36		53,62	
3.180	64,36		53,62	
3.420	68,48		57,07	
3.505	69,94		58,28	
3.660	69,94		58,28	
3.857	75,96		63,31	
4.100	80,13		66,78	
4.250	82,71		68,93	
4.570	88,18		73,50	
4.870	93,33		77,78	
5.000	95,56		79,63	

Ref.	TPI	α
729	2/3	10º
728	3/4	10º
730	4/6	10º



Ref.	TPI	α
470	2 HR	Gancio 10º
471	3 HR	Gancio 10º

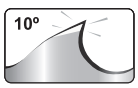
34 mm x 0,90 mm (1-1/4" x 0,035")

QUALITÀ:	M2 (HSS)	
	WOOD CUT	
LUNGHEZZA mm	€	DENTATURE DISPONIBILI
3.505	68,02	
4.530	87,91	
4.600	89,27	
4.680	90,82	
5.150	99,94	
5.200	100,91	
5.220	101,30	
5.430	105,38	
5.620	109,06	
5.780	112,17	
6.110	118,57	
6.140	119,16	
6.170	119,74	
6.200	120,32	
6.300	122,26	
7.140	138,56	
7.200	139,73	
7.300	141,67	
7.800	151,37	

Ref.	TPI	α
939	1,14	10º
940	2	10º

MASTER

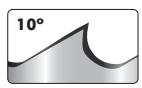
Le seghe MASTER sono realizzate in M42 con denti rettificati alternare per un taglio più veloce nei SOLIDI



Macizos redondos y cuadrados.

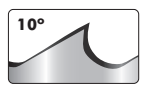
ALLUMINIO/LEGNO

Speciale per alluminio, materiali non ferrosi e legno.



WOODCUT

Le seghe WOODCUT sono realizzate in M42 con denti adatti ad riaffilature ripetute.



*L'unico parametro che definisce il prezzo è lo sviluppo del nastro. Pertanto, il PVP di ciascun dentato all'interno di ciascuna famiglia è lo stesso per uno sviluppo specifico.

LAME A NASTRO BIMETALLICHE

34 mm x 1,10 mm (1-1/4" x 0,042")



QUALITÀ:	M42 (8% Co)		M51 (10% Co)	
LUNGHEZZA mm	STANDARD		TOP PRODUZIONE M51	
	€	DENTATURE DISPONIBILI	€	DENTATURE DISPONIBILI
3.180	71,47		88,22	
3.505	77,89		96,15	
3.720	82,13		101,38	
4.100	89,65		110,68	
4.115	89,94		111,06	
4.520	97,94		120,92	
4.570	98,93		122,15	
4.640	100,33		123,85	
4.800	103,47		127,74	
4.860	104,66		129,20	
4.990	107,25		132,40	
5.070	108,82		134,35	
5.145	110,30		136,19	
5.240	112,18		138,50	
5.270	112,77		139,22	
5.334	114,04		140,79	
5.400	115,33		142,39	
5.620	119,69		147,76	
5.734	121,93		150,54	
5.970	129,59		160,00	
6.070	131,59		162,44	
6.750	145,02		179,03	
6.900	147,98		182,71	

Ref.	TPI	α
947	1,25 HR	Gancio 10º
949	2 HR	Gancio 10º
960	2/3	10º
961	3/4	10º
962	4/6	7º
966	5/8	7º
967	6/10	0º
948	8/12	0º

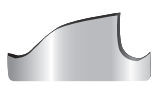
Ref.	TPI	α
201	2/3	10º
202	3/4	10º
203	4/6	10º





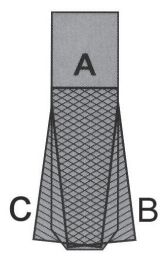
	M42 (8% Co)		M42 (8% Co)	
LUNGHEZZA mm	STRUTTURE		MASTER	
	€	DENTATURE DISPONIBILI	€	DENTATURE DISPONIBILI
3.180	71,47		85,75	
3.505	77,89		93,45	
3.720	82,13		98,54	
4.100	89,65		107,58	
4.115	89,94		107,94	
4.520	97,94		117,53	
4.570	98,93		118,72	
4.640	100,33		120,38	
4.800	103,47		124,16	
4.860	104,66		125,58	
4.990	107,25		128,68	
5.070	108,82		130,58	
5.145	110,30		132,37	
5.240	112,18		134,62	
5.270	112,77		135,31	
5.334	114,04		136,85	
5.400	115,33		138,40	
5.620	119,69		143,62	
5.734	121,93		146,32	
5.970	129,59		155,52	
6.070	131,59		157,88	
6.750	145,02		174,01	
6.900	147,98		177,58	

Réf.	TPI	α
160	2/3	Rinforzata
161	3/4	Rinforzata
162	4/6	Rinforzata
727	5/7	Rinforzata
725	8/11	Rinforzata



Dentatura rinforzata con stradatura extra specifica per il taglio di strutture e profili. Evita di cancellare la dentatura. Particolarmente indicato per macchine manuali, con giochi e vibrazioni.

Ref.	TPI	α
761	3/4	10º
784	4/6	10º



LAME A NASTRO BIMETALLICHE

41 mm x 1,30 mm (1-1/2" x 0,050")



QUALITÀ: M42 (8% Co)

LUNGHEZZA mm	STANDARD €
4.115	124,61
4.170	126,17
4.570	137,45
4.670	140,26
4.870	145,92
5.030	150,40
5.040	150,70
5.070	151,55
5.145	153,66
5.334	159,01
5.400	160,85
5.450	162,27
5.734	170,26
5.800	172,12
5.920	175,55
6.096	178,75
6.200	183,41
6.300	186,24
6.480	191,31
6.600	194,69
6.700	197,50
6.900	203,14
7.100	208,79

DENTATURE DISPONIBILI

Ref.	TPI	α
977	2/3	10º
978	3/4	10º
979	4/6	7º
998	5/8	3º
163	5/7	3º

54 mm x 1,30 mm (2" x 0,050")



QUALITÀ: M42 (8% Co)

LUNGHEZZA mm	STANDARD €
6.000	237,95
7.200	283,01
7.239	284,48
7.400	290,53
7.545	295,97
7.600	298,04
7.830	306,66
7.940	310,81
8.077	315,95
8.128	317,86
8.325	325,27
8.800	343,12
9.080	353,61
9.398	365,57

DENTATURE DISPONIBILI

Ref.	TPI	α
994	2/3	10º
995	3/4	10º
599	4/6	7º

54 mm x 1,60 mm (2" x 0,063")



QUALITÀ: M42 (8% Co)

LUNGHEZZA mm	STANDARD €
6.000	265,74
7.200	316,21
7.239	317,83
7.400	324,56
7.545	330,60
7.600	332,91
7.830	342,49
7.940	347,10
8.077	352,81
8.128	354,93
8.325	363,16
8.800	383,01
9.080	394,67
9.398	407,95

DENTATURE DISPONIBILI

Ref.	TPI	α
523	1,4/2	10º
996	2/3	10º
997	3/4	10º
525	4/6	7º



LAME A NASTRO BIMETALLICHE

67 mm x 1,60 mm (2-5/8" x 0,063")



M42 (8% Co)

STANDARD

DENTATURE DISPONIBILI

Ref.	TPI	α
932	1,25 HR	Gancio 10º
933	2 HR	Gancio 10º
934	0,75/1,25	10º
935	1,1/1,6	10º
936	1,5/2	10º
937	2/3	10º
938	3/4	10º

P.V.P. x METRO **55,33 €**

P.V.P. x SALDATURA **23,27 €**

80 mm x 1,60 mm (3" x 0,063")



M42 (8% Co)

STANDARD

DENTATURE DISPONIBILI

Ref.	TPI	α
985	0,75	Gancio 10º
987	0,75/1,25	10º
988	1,1/1,6	10º
999	1,5/2	10º
993	2/3	10º

P.V.P. x METRO **66,97 €**

P.V.P. x SALDATURA **37,16 €**

COME EFFETTUARE UN ORDINE:
Indicare la lunghezza in mm e la referenza.

COME CALCOLARE IL P.V.P. DELLA LAMA:
Lunghezza totale in metri x (P.V.P. x metro) + (P.V.P. x saldatura) = P.V.P.

ROTOLI DI LAME A NASTRO IN ACCIAIO ALTO CARBONIO

ROTOLI DI 30 METRI

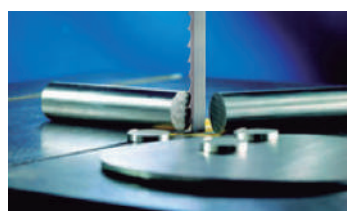




APPLICAZIONI:

Legno
Metalli non ferrosi, alluminio, rame, ottone...
Acciai dolci





DENTI PER POLLICE

DIMENSIONI TPI	3	4	6	8	10	14	18	24	€
	REFERENZA								
6 x 0,65			401	402	403		405		**127,89***
8 x 0,65		440	408	409		411	412	413	**130,66***
10 x 0,65	477		415	416	417		419	439	**131,10***
13 x 0,65		420		422	423		425	476	**140,69***
16 x 0,80	448	449	450		482	451			**246,33***
20 x 0,80		442	485	486	487	488	489		**266,10***
25 x 0,90		491	437	493	452	495			**275,67***

*Fino ad esaurimento scorte.

Non si somministrano lame su misura. I rotoli sono venduti esclusivamente completi.

LAME A NASTRO IN ACCIAIO INOX PER LA LAVORAZIONE DI ALIMENTI FRESCHI





Per tagliare carne fresca con ossa e surgelati.

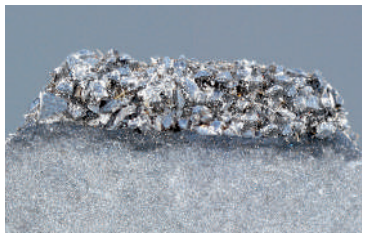



HALFMOON

Per tagliare carne fresca disossata.

	13 x 0,50		16 x 0,50		19 x 0,50	
LUNGHEZZA mm	€		€		€	
1.500	22,17	Ref. 600 / TPI 4RR	22,17	Ref. 610 / TPI 3RR; Ref. 611 / TPI 4RR; HALFMOON 632	23,77	Ref. 620 / TPI 3RR; Ref. 621 / TPI 4RR
1.550	22,55		22,55		24,20	
1.600	22,92		22,92		24,62	
1.625	23,13		23,13		24,90	
1.650	23,35		23,35		25,11	
1.750	24,09		24,09		25,96	
1.830	24,73		24,73		26,65	
1.985	25,91		25,91		28,04	
2.000	26,01		26,01		28,14	
2.040	26,33		26,33		28,52	
2.120	26,92		26,92		29,21	
2.200	27,56		27,56		29,91	
2.350	28,68		28,68		31,19	
2.450	29,48		29,48		32,09	
2.500	29,85		29,85		32,51	
2.750	31,76		31,76		34,71	
2.920	33,05		33,05		36,20	
3.150	34,86		34,86		38,22	
3.250	35,60		35,60		39,08	
3.500	37,52		37,52		41,25	
3.690	38,97		38,97		42,91	

LAME A NASTRO IN CARBURO DI TUNGSTENO



LA LAMA A NASTRO "REMGRIT" È LA RISPOSTA AI PROBLEMI ATTUALI NEI MATERIALI DIFFICILI

PARTICOLARMENTE INDICATO PER GOMME, PLASTICHE, POLIMERI, ECC.



CARATTERISTICHE

* Particelle di carbonio aderenti al filo della lama.
* Eccezionale durabilità rendimento di taglio e vita utile della lama nei materiali duri abrasivi e resistenti.
* Vita utile superiore.
* Le lame con filo continuo, Tipo C, devono essere utilizzate in macchine con ruote guida di almeno 600 mm di Ø.
  Ruote guida più piccole proporzionano una vita inferiore alla lama.

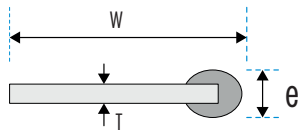


TIPI DI FILO

D:	Discontinuo
C:	Continuo

TIPI DI GRANA

M:	Media	200-300µ
G:	Grossa	425-600µ



FILO DISCONTINUO

	DIMENSIONI		e	Filo	Grana	€
	WxT"	WxT mm				m. Saldato
308	1/4x0,020"	6x0,51	1,30	D	M	**43,57***
322	3/8x0,025"	10x0,64	1,45	D	M	**43,57***
335	1/2x0,020"	13x0,51	1,30	D	M	**43,57**
341	3/4x0,032"	19x0,81	1,60	D	M	**53,22**
350	1"x0,035"	25x0,89	1,95	D	M	**53,22**
351	1"x0,035"	25x0,89	2,30	D	G	**53,22**
374	$1^{1/2}$x0,042"	38x1,07	2,50	D	G	**61,98***

*Fino ad esaurimento scorte.

D: Discontinuo



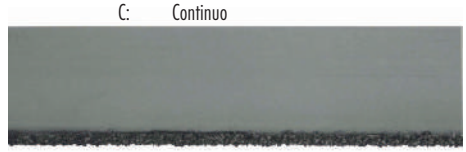
* Filo con gola discontinua tipo D, per tagli superiori a 6 mm di spessore. Perfetto per materiali non-metallici come gomma, fibra di vetro, ecc.

FILO CONTINUO

	DIMENSIONI		e	Filo	Grana	€
	WxT"	WxT mm				m. Saldato
328	3/8x0,025"	10x0,64	1,45	C	M	**43,57***
337	1/2x0,020"	13x0,51	1,30	C	M	**43,57***
333	1/2x0,025"	13x0,64	1,45	C	M	**43,57***
346	3/4x0,032"	19x0,81	1,60	C	M	**53,22***
356	1x0,035"	25x0,89	1,68	C	M	**53,22***
363	$1^{1/4}$x0,035"	32x0,89	2,50	C	G	**61,98***

*Fino ad esaurimento scorte.

C: Continuo



* Filo con gola continua tipo C, per tagli inferiori a 6 mm di spessore. Perfetto per materiali porcellanici ad alta durezza, materiali induriti, Inox, Duplex Titanio e leghe di Nichel.

RACCOMANDAZIONI DI TAGLIO

1. Se un materiale specifico non è presente nella lista, selezioni le condizioni di un materiale simile.
2. Cominci a tagliare a velocità ridotta; aumenti la velocità della lama fino ad arrivare al taglio ottimale.
3. Materiali di grande spessore richiedono velocità inferiori e maggiore avanzamento.
4. Materiali di piccolo spessore devono essere tagliati ad alte velocità con avanzamento moderato.
5. Nel taglio di metalli, un truciolo fine e fibroso evidenzia una velocità ed un avanzamento adeguati.
6. La refrigerazione è essenziale per il taglio della maggior parte dei metalli ed è inoltre raccomandata per ceramica, cristallo e materiali simili.

* PRECAUZIONE: Nel tagliare questi prodotti, usi aspiratori e maschera per proteggere la respirazione.

SELEZIONE E APPLICAZIONI DELLE LAME A NASTRO IN CARBURO

TABELLA DELLE CARATTERISTICHE

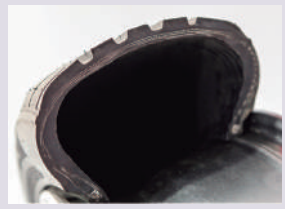
GRUPPO	MATERIALE	Velocità m. /min.	Refrigerante	Filo	TIPI DI GRANA Media	Grossa
ACCIAI/METALLI	ACCIAI INDURITI	45-90	SÌ	C		●
	HASTELLOY ™	36-106	SÌ	C		●
	ACCIAIO INOX	45-150	SÌ	C	●	●
	GHISA	45-106	SÌ	D		●
	TITANIO	45-120	SÌ	C		●
EDILIZIA	CERAMICA BASSA DENSITÀ	150-450	NO	C	●	
	CERAMICA ALTA DENSITÀ	60-360	NO	C	●	
	CARBONE E GRAFITE	1000-1200	NO	C		●
	ARDESIA	45-180	NO	C	●	●
	MARMO	90-150	SÌ	C	●	●
	VETRO	150-300	SÌ	C	●	
PLASTICHE, GOMME E COMPOSTI	METACRILATO	300-900	NO	C	●	
	SCHIUMA	90-210	NO	D	●	
	FIBRA DI VETRO/CARBONIO	1200-1800	NO	D	●	
	PLASTICA RINFORZATA/EPOXI	300-900	NO	D	●	
	GOMMA RINFORZATA (PNEUMATICI)	360-900	SÌ	D		●

MIN. RAGGIO PER LARGHEZZA

Larghezza lama	Minimo raggio mm
1/4 - 6	12,70
3/8 - 10	27
1/2 - 12	44,50
3/4 - 19	102
1" - 25	140
1 1/4 - 32	240
1 1/2 - 38	318

I raggi variano con il tipo e lo spessore del materiale, con l'avanzamento e il punto d'appoggio. Questa tabella si basa sul taglio di un metallo di 25 mm di spessore.

● Grana raccomandata

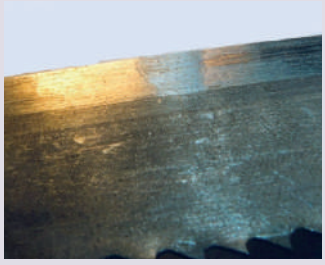


Taglio di pneumatici

PULITURA DELLA LAMA

* Se utilizziamo la lama per tagliare materiali collosi con tendenza ad attaccarsi al filo della lama, conviene lavarla con una spazzola metallica, mentre gira nella macchina a bassa velocità.
* Si può utilizzare anche un solvente per la sua pulitura.

VALUTAZIONE DEI RECLAMI



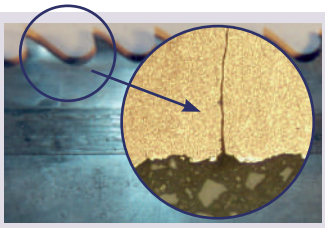
CREPE GENERATE DAL DORSO

Cause:
- Guide posteriori del dorso difettose (schiacciano il dorso).
- Il dorso della lama è in contatto con il bordo delle guide.
- Eccesso di tensione nel montare le lame sui volanti della macchina.

RECLAMO NON PERTINENTE







CREPE GENERATE DALLA GOLA DELLA DENTATURA

Cause:
- Passo della dentatura molto piccolo, che provoca accumulo di truciolo.
- Passo della dentatura molto grande, che provoca vibrazioni.
- Avanzamento eccessivo in relazione alla velocità della lama.

RECLAMO NON PERTINENTE





SBAVATURA SUL DORSO

Cause:
- Guide del dorso difettose.
- Il dorso della lama è in contatto con il bordo delle guide.

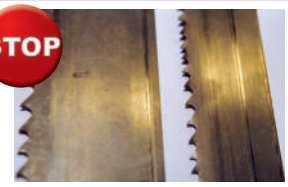
RECLAMO NON PERTINENTE

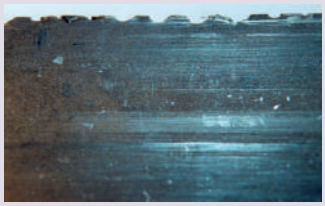


GRAFFIO PROFONDO SUI LATI DELLA LAMA

Cause:
- Guide laterali difettose.
- Guide laterali con regolazione eccessiva.
- Truciolo tra la lama e le guide.

RECLAMO NON PERTINENTE





DENTATURA ROTTA O SCHIACCIATA

Cause:
- Passo del dente molto grande: vibrazioni.
- Passo del dente molto piccolo: accumulo di truciolo.
- La velocità della lama non è adatta al tipo di materiale (troppo alta).
- Il materiale non è ben fissato e si muove durante il taglio.

RECLAMO NON PERTINENTE

FRATTURA NETTA PER LA SALDATURA

Cause:
- Difetto di fabbrica: saldatura mal realizzata

RECLAMO PERTINENTE



LAMA ROTTA, DENTATURA IN SENSO OPPOSTO

Cause:
- Guide laterali troppo strette.
- Bracci delle guide troppo lontani dal materiale da tagliare.
- Disallineamento tra i volanti e i gruppi di guide.

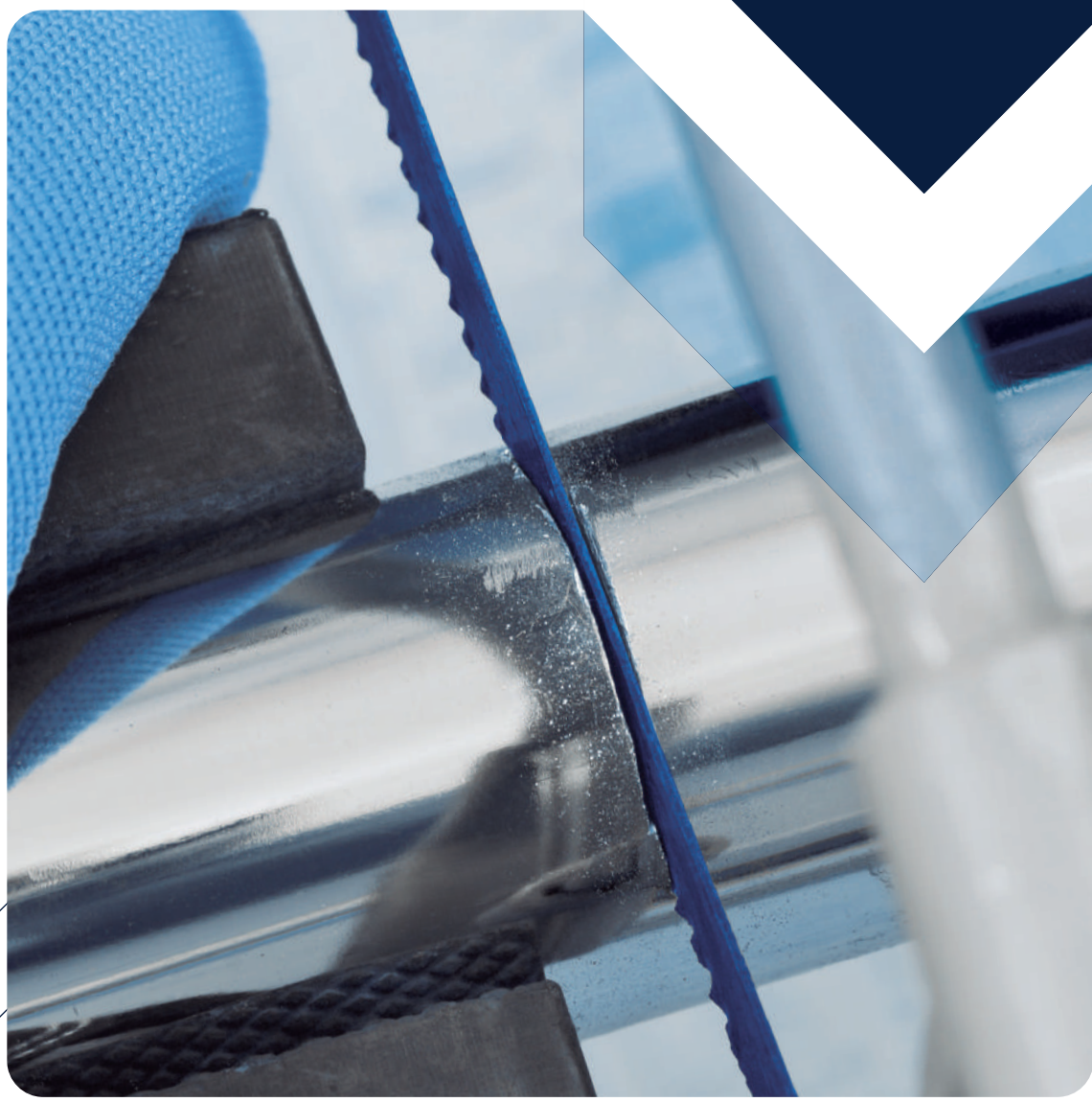
RECLAMO NON PERTINENTE

TAGLIO STORTO

Cause:
- Usura naturale della dentatura.
- La velocità e l'avanzamento della lama non sono coordinate con il tipo di materiale da tagliare.
- La stradatura della dentatura sfrega contro i lati delle guide.

RECLAMO NON PERTINENTE

BLUE-MASTER®
by celesa



LAME A MANO

LAME A MANO

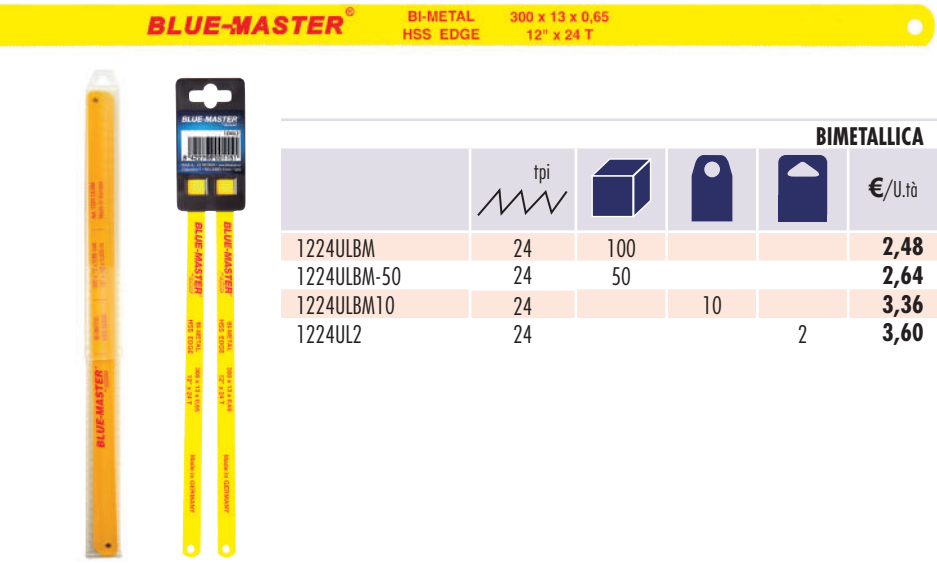
BIMETALLICA

HSS

- Denti in acciaio rapido con alta resistenza agli impatti.
- Corpo in acciaio tenace.
- Rendimento elevato per tutti i tipi di materiali, incluso INOX.



100 U.tà
Ref.**1224ULBM**



10 U.tà
Ref.**1224ULBM10**

2 U.tà
Ref.**1224UL2**

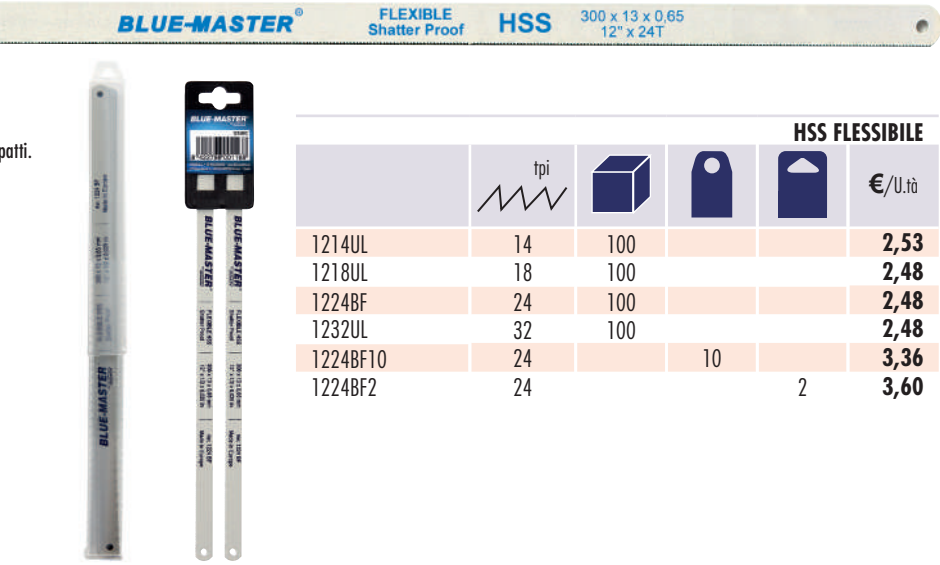
BIMETALLICA

	tpi				€/U.tà
1224ULBM	24	100			**2,48**
1224ULBM-50	24	50			**2,64**
1224ULBM10	24		10		**3,36**
1224UL2	24			2	**3,60**

HSS FLESSIBILE

HSS

- Lama integralmente in acciaio rapido con alta resistenza agli impatti.
- Rendimento elevato per tutti i tipi di materiali.



10 U.tà
Ref.**1224BF10**

2 U.tà
Ref.**1224BF2**

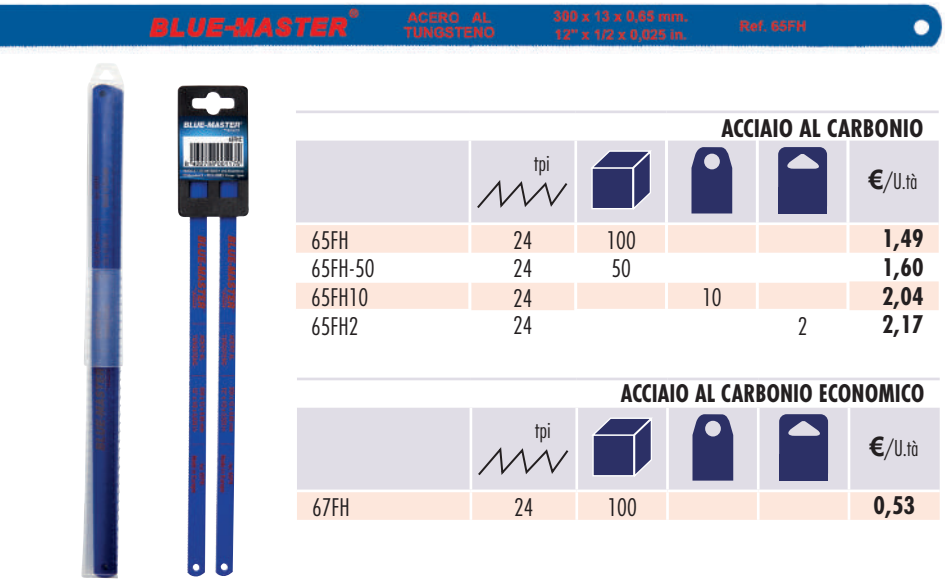
HSS FLESSIBILE

	tpi				€/U.tà
1214UL	14	100			**2,53**
1218UL	18	100			**2,48**
1224BF	24	100			**2,48**
1232UL	32	100			**2,48**
1224BF10	24		10		**3,36**
1224BF2	24			2	**3,60**

ACCIAIO AL CARBONIO



100 U.tà
Ref.**65FH**



10 U.tà
Ref.**65FH10**

2 U.tà
Ref.**65FH2**

ACCIAIO AL CARBONIO

	tpi				€/U.tà
65FH	24	100			**1,49**
65FH-50	24	50			**1,60**
65FH10	24		10		**2,04**
65FH2	24			2	**2,17**

ACCIAIO AL CARBONIO ECONOMICO

	tpi				€/U.tà
67FH	24	100			**0,53**

LAME IN ACCIAIO AL CARBONIO A DOPPIO FILO PER IDRAULICI



2 U.tà
Ref. **66FH2**

Ref. **66FHP**



Ref. **66FH**



ACCIAIO AL CARBONIO

	tpi			€/U.tà
66FHP	24	100		**2,00**
66FH	24	100		**0,94**
66FH2	24		2	**1,45**

INSIEMI MISTI DI LAME A MANO



1 U.tà - Ref. 1224ULBM - HSS BIMETAL
1 U.tà - Ref. 1224BF - HSS FLESSIBILI

ULBF2 **7,21 €/2U.**



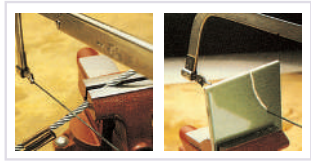
1 U.tà - Ref. 1224ULBM - HSS BIMETAL
1 U.tà - Ref. 65FH ACCIAIO TUNGSTENO

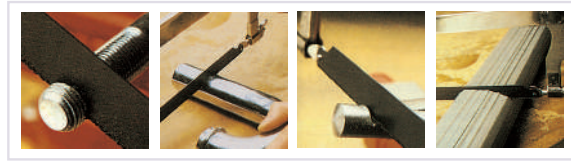
ULFH2 **5,44 €/2U.**

LAME IN FILO TONDO E LAME A MANO IN GRANI DI METALLO DURO



- Lama in grani di carburo di tungsteno elettrodepositati, specialmente progettata per materiali NON METALLICI.
- Tagli netti e precisi.
- Taglio in entrambe le direzioni (avanti e indietro).
- Adatti alle lame standard (30 mm).







10 U.tà Ref. **HS 12C H**



1 U.tà Ref. **RS 12 CH-S**



1 U.tà Ref. **HS 12 CH-S**

LAME IN FILO TONDO PER TAGLI CURVI E DRITTI

	L mm			€/U.tà
RS 12 CH	300	10 U		**7,43**
RS 12 CH-S	300		1 U	**8,38**

LAME A MANO PER TAGLI DRITTI

	L mm			€/U.tà
HS 12 CH	300	10 U		**9,40**
HS 12 CH-S	300		1 U	**10,31**

LAME PER MACCHINE ALTERNATIVE - (HSS M2)

HSS

- Fabbricazione in HSS - speciale per seghe, per una maggiore durabilità e rendimento.
- Alta resistenza agli impatti.
- Lunga durata e massima capacità di taglio in lavori multipli.
- Per lavori in tutti i tipi di materiali.



	DIMENSIONI mm	tpi	SOM €/U.tà
SOM3002506	300x25x1,6	6	**18,22**
SOM3002508	300x25x1,6	8	**18,22**
SOM3002510	300x25x1,6	10	**18,22**
SOM3002514	300x25x1,6	14	**18,22**
SOM3502510	350x25x1,6	10	**23,70**
SOM3502514	350x25x1,6	14	**23,70**
SOM3503006	350x32x1,6	6	**27,68**
SOM3503008	350x32x1,6	8	**27,68**
SOM3503010	350x32x1,6	10	**27,68**
SOM3503014	350x32x1,6	14	**27,68**
SOM4003204	400x32x1,6	4	**30,99**
SOM4003206	400x32x1,6	6	**30,99**
SOM4003208	400x32x1,6	8	**30,99**
SOM4003210	400x32x1,6	10	**30,99**
SOM4003214	400x32x1,6	14	**30,99**
SOM4503204	450x32x1,6	4	**34,15**
SOM4503206	450x32x1,6	6	**34,15**
SOM4503208	450x32x1,6	8	**34,15**
SOM4503210	450x32x1,6	10	**34,15**
SOM4503214	450x32x1,6	14	**34,15**
SOM4504004	450x40x2,0	4	**47,89**
SOM4504006	450x40x2,0	6	**47,89**

	DIMENSIONI mm	tpi	SOM €/U.tà
SOM4504008	450x40x2,0	8	**47,89**
SOM4504010	450x40x2,0	10	**47,89**
SOM5004004	500x40x2,0	4	**62,00**
SOM5004006	500x40x2,0	6	**62,00**
SOM5004008	500x40x2,0	8	**62,00**
SOM5004010	500x40x2,0	10	**62,00**
SOM5505004	550x50x2,5	4	**85,43**
SOM5505006	550x50x2,5	6	**85,43**
SOM5505008	550x50x2,5	8	**85,43**
SOM5505010	550x50x2,5	10	**85,43**
SOM6005004	600x50x2,5	4	**94,13**
SOM6005006	600x50x2,5	6	**94,13**
SOM6005008	600x50x2,5	8	**94,13**
SOM6005010	600x50x2,5	10	**94,13**
SOM6505004	650x50x2,5	4	**115,34**
SOM6505006	650x50x2,5	6	**115,34**
SOM6505008	650x50x2,5	8	**115,34**
SOM6505010	650x50x2,5	10	**115,34**
SOM7005004	700x50x2,5	4	**124,48**
SOM7005006	700x50x2,5	6	**124,48**
SOM7005008	700x50x2,5	8	**124,48**
SOM7005010	700x50x2,5	10	**124,48**

SEGHE AD ARCO



ASYH2015

- Sega ad arco professionale
- Lama a cambio rapido
- Alta tensione: riduce le vibrazioni e la rottura delle lame
- Stoccaggio per le lame
- Manico rinforzato ed ergonomico
- Lama bimetallica inclusa 300 mm

29,64 €



ASYH99

- Qualità professionale
- Manico in alluminio
- Stoccaggio per 10 lame di ricambio
- Lama bimetallica inclusa 300 mm

21,20 €



ASYH2009

- Qualità standard
- Montatura rigida e rettangolare in acciaio
- Lama bimetallica inclusa 300 mm

17,74 €



ASYH2107

- Qualità professionale
- Manico rinforzato, design ergonomico
- Montatura completa in alluminio
- Lama bimetallica inclusa 150 mm (Ref. H2107)

9,06 € *



ASYH012

- Manico supporto per lama
- Lama bimetallica inclusa 300 mm

11,48 €

*Fine ad esaurimento scorte

BLUE-MASTER®
by celesa



LAME PER SEGHETTI ALTERNATIVI

SELEZIONE DELLE LAME PER SEGHETTI ALTERNATIVI

* Le lame per seghetti alternativi indicati per il legno lo sono anche per le plastiche.

CODICE CELESA	CODICE BOSCH	MATERIALE	LUNG. TAGLIO	FINITURA	VELOCITÀ	DENTATURA	TAGLIO CURVILINEO	LEGNO: Legno Duro	Pannelli in fibra di legno (MD)	Compensato	Truciolato	Legno + chiodi (pallet, ecc...)	Pannelli laminati (ripiani)
LEGNO PROFESSIONALE (TAGLIO PRECISO)													
P5543	T101 AO	CV	50	Fine	Normale	1,3	*	2-20	2-20	2-20	2-20		
P5501	T101 B	CV	75	Fine	Normale	2,5		4-30	4-30	4-30	4-30		
P5532	-	CV	75	Fine	Normale	2,5	*	4-30	4-30	4-30	4-30		
P5516	T101 BR	CV	75up	Fine	Normale	2,5		4-30	4-30	4-30	4-30		
P5550	T101AIF	CV	75	Fine	Normale	2		3-60	3-60	3-60	3-60		
P5545	Premium	CV	75	Fine	Alta	3		6-30	6-30	6-30	6-30		
P5502	T101 D	CV	75	Fine	Alta	4		10-45	10-45	10-45	10-45		
P5533	T101 DP	CV	75F	Fine	Alta	4		6-60	6-60	6-60	6-60		
P5542	T301CD	CV	90	Fine	Alta	3		6-60	6-60	6-60	6-60		
P5544	T234 X	CV	90	Fine	Normale	Progr.		1-80	1-80	1-80	1-80		
P5522	T301 D	CV	95	Fine	Alta	4		8-75	8-75	8-75	8-75		
P5562	T308 BFP	CV	110	Fine	Alta	2		5-50	30-60	5-50	30-60		
P5555	T301BCP	CV	110	Fine	Alta	2		3-100	3-100	3-100	3-100		3-100
P5548	T101 BL	CV	110	Fine	Normale	2,5		4-100	4-100	4-100	4-100		
P5525	T301 DL	CV	110	Fine	Alta	4		6-100	6-100	6-100	6-100		
P5547	-	CV	220	Fine	Normale	2,5		4-200	4-200	4-200	4-200		4-200
P5552	-	CV	55-85	Fine	Alta	2,5/2,2-3,2		3-40	3-40	3-40	3-40		3-40
LEGNO PROFESSIONALE (TAGLIO RAPIDO E GROSSO)													
P5503	T144 D	CV	75	Grossa	Alta	4		6-60	6-60	6-60	6-60		6-60
P5560	T144 DP	CV	75F	Grossa	Alta	4		6-60	6-60	6-60	6-60		6-60
P5504	T244 D	CV	75	Grossa	Alta	4		6-60	6-60	6-60	6-60		6-60
P5553	~T344 D	CV	110	Grossa	Alta	4		8-100	8-100	8-100	8-100		8-100
P5554	T344 D	CV	130	Grossa	Alta	4		8-120	8-120	8-120	8-120		8-120
P5568	T344DP	CV	130	Grossa	Alta	4		5-100		5-100			
P5561	T1044 DP	CV	230	Grossa	Alta	4		8-150	8-150	8-150	8-150		8-150
LEGNO CLASSICO (TAGLIO GROSSO)													
P5506	T119 A	CV	50	Grossa	Normale	1,2		2-15		2-15			
P5507	T119 B	CV	50	Grossa	Normale	2		4-30		4-30			
P5508	T119 BO	CV	50	Grossa	Normale	2	*	4-20		4-20			
P5505	T111 C	CV	75	Grossa	Normale	3		5-60		5-60			
LEGNO EXTRA PROFESSIONALE (TAGLIO RAPIDO E PRECISO)													
P5541	T101 AIF	Bi	75	Fine	Alta	2		2-30	2-30	2-30	2-30	2-30	
P5531	T101 BF	Bi	75	Fine	Alta	2,5		4-30	4-30	4-30	4-30		4-30
P5534	T144 DF	Bi	75	Fine	Alta	4		5-50	5-50	5-50	5-50		5-50
P5540	T345 XF	Bi	110	Fine	Alta	2-4		3-65	3-65	3-65	3-65	3-65	
METALLO CLASSICO													
P5511	T118 G	HSS	50	Normale	Normale	0,9							
P5512	T118 A	HSS	50	Normale	Normale	1,2							
P5513	T218 A	HSS	50	Normale	Normale	1,2							
P5514	T118 B	HSS	50	Normale	Normale	2							
P5519	T101 A	HSS	75	Fine	Normale	2							
P5509	T127 D	HSS	75	Grossa	Normale	3							
P5559	T123 XF	HSS	75	Normale	Normale	1,2/2,5							
P5520	T318 A	HSS	110	Normale	Normale	1,2							
METALLO EXTRA PROFESSIONALE													
P5524	T118 AF	Bi	50	Normale	Normale	1,2							
P5523	T118 BF	Bi	50	Normale	Normale	2							
P5551	~T318AF	Bi	75	Normale	Normale	1,2							
P5537	T127 DF	Bi	75	Grossa	Normale	3						3-15	
P5535	T318 AF	Bi	110	Fine	Normale	1,2							
P5536	T318 BF	Bi	110	Normale	Normale	2							
PANNELLO SANDWICH													
P5546	T718BF	Bi	180	Grossa	Normale	1,4							
P5566	T 1018 AFP	Bi	230	Grossa	Normale	1,2							
MULTIUSO													
P5526	-	Bi	110	Normale	Rapido	1,8/2,5		3-100	3-100	3-100		3-100	
P5549	-	Bi/CV	-	Fine	Rapido	-		3-100	3-100	3-100		3-100	
DIAMANTE													
JIG55/427	-	DIA	55	Fine	Alta	-							1-15
JIG55/602	-	DIA	55	Fine	Alta	-							1-15
JIG75/427	-	DIA	75	Fine	Alta	-							1-20
JIG75/602	-	DIA	75	Fine	Alta	-							1-20
METALLO DURO													
P5538	T141 HM	PMD	75	Fine	Alta	4,3							
P5539	T118 EHM	PMD	50	Fine	Alta	1,4							
GJ12	T150 RIFF	MD	54	Fine	Alta	-							
GJ14	T130 RIFF	MD	54	Fine	Alta	-							
LAME SENZA DENTI													
P5557	T313 AW	CV	127	Fine	Alta								
P5558	T113 A	CV	75	Fine	Alta								

SELEZIONE DELLE LAME PER SEGHETTI ALTERNATIVI

METALLI							ALTRI MATERIALI								
															
INOX	Metalli in generale	Lamiera	Lamiera in acciaio	Materiali non ferrosi	Alluminio	Pannelli Sandwich	Plastiche in generale	Plexiglas	Fibra di vetro	Lamiera ondulata di fibrocemento	Ceramica	Calcestruzzo	Vetri	Cartone Gomma-Cuoio	Intonaco di cartone
LEGNO PROFESSIONALE (TAGLIO PRECISO)															
							4-30								
							4-30								
							4-30								
							3-60								
							6-30								
							6-60								
							6-60								
							6-60								
							8-75								
							3-100								
							4-100								
							6-100								
							4-200								
							3-40								
LEGNO PROFESSIONALE (TAGLIO RAPIDO E GROSSO)															
							8-60								
							5-50								
							8-60								
							8-100								
							8-120								
							8-150								
LEGNO CLASSICO (TAGLIO GROSSO)															
							2-15								
							4-20		4-20						
							4-20		4-20						
							5-60								
LEGNO EXTRA PROFESSIONALE (TAGLIO RAPIDO E PRECISO)															
							3-10	3-10							
							4-30								
							6-60								
							8-85								
METALLO CLASSICO															
	0,9-1,2	0,9-1,2	0,9-1,2	0,9-1,2	0,9-1,2		0,9-1,2								
	1,5-3	1,5-3	1,5-3	1,5-3	1,5-3		1,5-3								
	1,5-3	1,5-3	1,5-3	1,5-3	1,5-3		1,5-3								
	3-6	3-6		3-6	3-6		3-6								
	2-20	2-20		2-20	2-20		2-20								
	3-15	3-15		3-15	3-15		3-15			3-15					
	1,5-10	1,5-10		1,5-10	1,5-10		1,5-10	1,5-10							
	1,5-3	1,5-3		1,5-3	1,5-3	1,5-65	1,5-3								
METALLO EXTRA PROFESSIONALE															
1,5-3	1,5-3	1,5-3	1,5-3	1,5-3	1,5-3		1,5-3	1,5-3							
2-60	2-60	2-60		2-60	2-60		2-6	2-6							
1,5-3	1,5-3	1,5-3		1,5-3	1,5-3		1,5-3	1,5-3							
3-15	3-15	3-15		3-15	3-15		3-15	3-15		3-15					
1,5-3	1,5-3	1,5-3		1,5-3	1,5-3	2-65	1,5-3	1,5-3							
2-6	2-6	2-6		2-6	2-6	2-85	2-6	2-6							
PANNELLO SANDWICH															
1,5-3	1,5-3	1,5-3		1,5-3	1,5-3	2-180	1,5-3	1,5-3							
1-3	1-3	1-3		1-3	1-3	2-210	1-3	1-3							
MULTIUSO															
1,5-3	1,5-3	1,5-3	1,5-3	1,5-3	1,5-3		3-100	3-100				1,5-3	1,5-3		
1,5-3	1,5-3	1,5-3	1,5-3	1,5-3	1,5-3		3-100	3-100							
DIAMANTE															
							1-15	1-15	1-15		1-15		1-15		
							1-15	1-15	1-15		1-15		1-15		
							1-20	1-20	1-20		1-15		1-15		
							1-20	1-20	1-20		1-20		1-20		
METALLO DURO															
									5-50						5-50
									1-5						1-5
									2-15		2-15				
									2-15		2-15				
LAME SENZA DENTI															
														1-100	
														1-50	

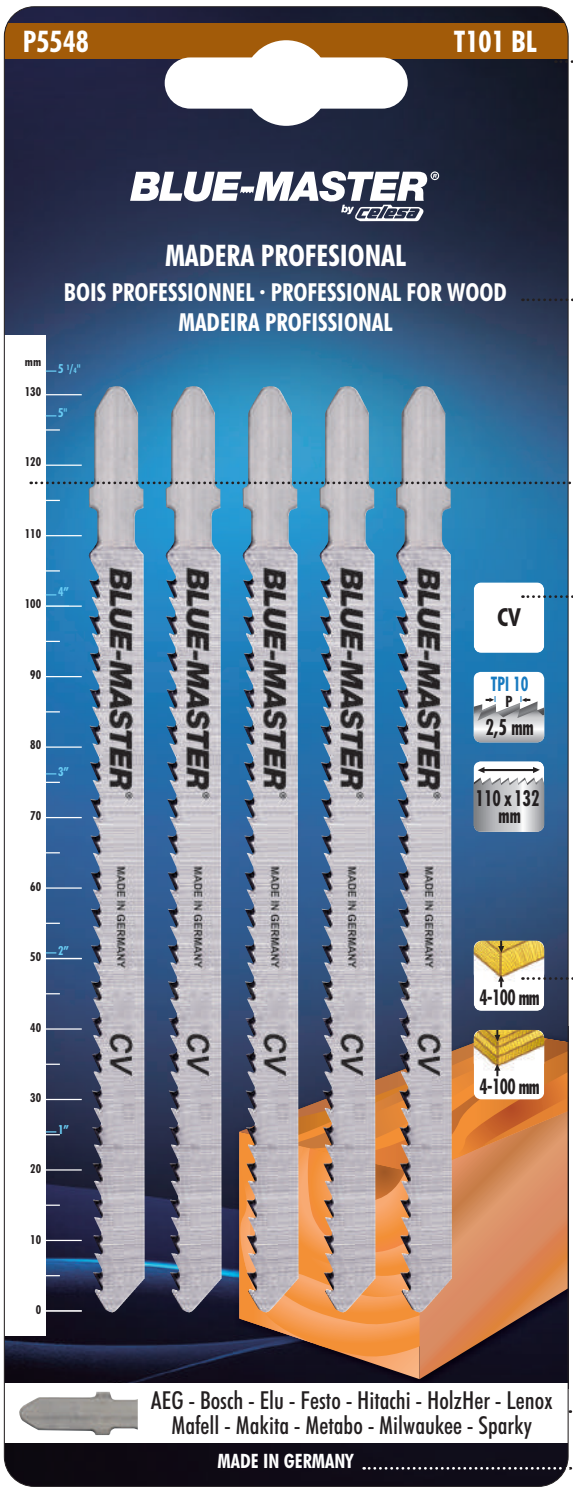
LAME PER SEGHETTI ALTERNATIVI

L'ampia gamma di lame per seghetti alternativi BLUEMASTER soddisfa le elevate esigenze in tutti i tipi di applicazioni, da legni solidi ad alta durezza a metalli duri o materiali sintetici. Le avanzate tecnologie di produzione e gli elevati standard di qualità richiesti forniscono prestazioni elevate in tutte le applicazioni, guidando la leadership di mercato delle Lame per seghetti alternativi.

Prodotto con le migliori materie prime indicate per la applicazione e progettato con le geometrie più adatte per ottenere le massime prestazioni in ogni operazione di taglio.

BLISTER DESCRITTIVO PER SEGHETTI ALTERNATIVE

LEGNO



FASCIA PER LA IDENTIFICAZIONE DI LA APPLICAZIONE PER COLORI

- Legno
- Metallo
- Multiuso

TESTO DESCRITTIVO DI APPLICAZIONE

RIGHELLO PER CONTROLLARE LE DIMENSIONI

ICONE DELLE CARATTERISTICHE DEI LAME PER SEGHETTI ALTERNATIVI

- Materiale di fabbricazione
- Caratteristiche del dente
- Dimensioni

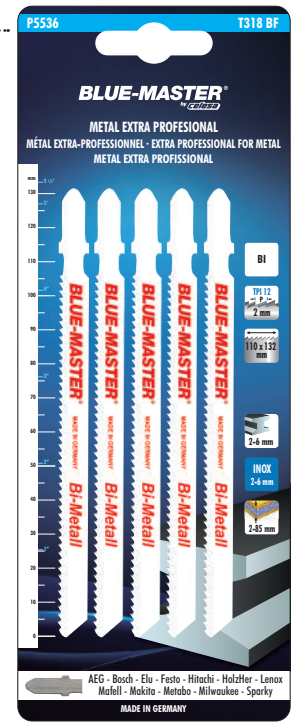
ICONE APPLICAZIONI

- Tipo di materiale

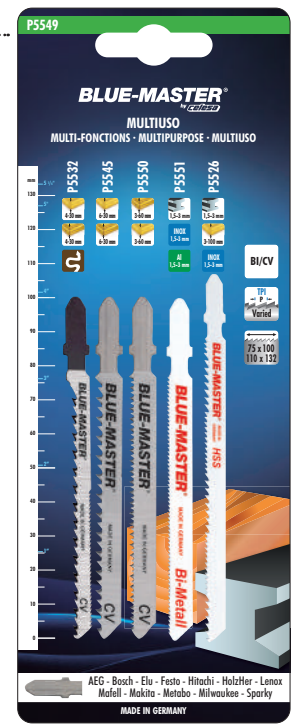
ATTACCHI COMPATIBILI

ORIGINE

METALLO

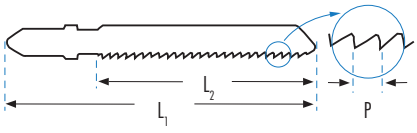


MULTIUSO



LAME PER SEGHETTI ALTERNATIVI







Attacco adatto per le seguenti macchine:
AEG - Bosch - Elu - Festo - Hitachi - HolzHer - Lenox Mafell - Makita - Metabo - Milwaukee - Sparky



Ref. CELESA	Ref. ULTRA	Ref. BOSCH	DENTI	DIMENSIONI L2 x L1	QUALITÀ	APPLICAZIONI

LEGNO PROFESSIONALE (TAGLIO PRECISO)

Ref. P5543 - T101 AO





TPI 20 — P 1,3 mm — 50 x 75 mm — CV — 2-20 mm — 2-20 mm

Blister 5u.: **11,51 €**

Ref. P5501 Ref. 8001 T101 B



TPI 10 — P 2,5 mm — 75 x 100 mm — CV — 4-30 mm — 4-30 mm

Blister 5u.: **9,44 €**

Ref. P5532 - -



Doppio taglio per finitura extra fine.



TPI 10 — P 2,5 mm — 75 x 100 mm — CV — 4-30 mm — 4-30 mm

Blister 5u.: **15,23 €**

Ref. P5516 Ref. 8018 T101 BR



Taglio senza sbavature superiori.



TPI 10 — P 2,5 mm — 75 x 100 mm — CV — 4-30 mm — 4-30 mm

Blister 5u.: **11,97 €**

Ref. P5550 - T101 AIF



Dentatura con taglio a doppio senso per tagli extra fini.

TPI 12 — P 2 mm — 75 x 100 mm — CV — 3-60 mm — 3-60 mm

Blister 5u.: **12,00 €**

PREMIUM

Ref. P5545 - Premium



La miglior lama per tagliare il legno.

TPI 8 — P 3 mm — 75 x 100 mm — CV — 6-30 mm — 6-30 mm

Blister 5u.: **12,22 €**

Ref. P5502 Ref. 8002 T101 D

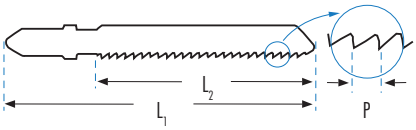


TPI 6 — P 4 mm — 75 x 100 mm — CV — 10-45 mm — 10-45 mm

Blister 5u.: **9,46 €**

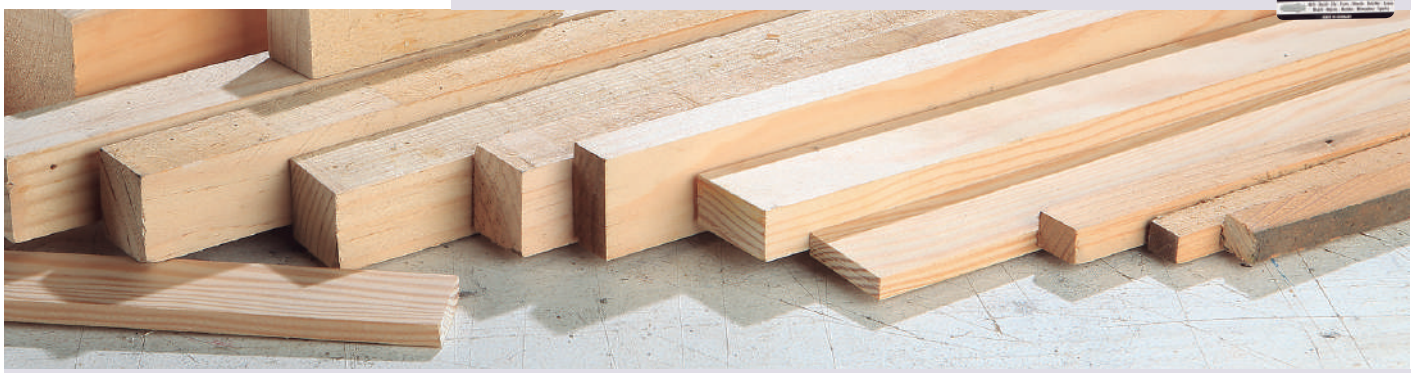
LAME PER SEGHETTI ALTERNATIVI







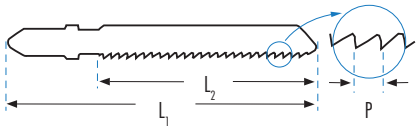
Attacco adatto per le seguenti macchine:
AEG - Bosch - Elu - Festo - Hitachi - HolzHer - Lenox Mafell - Makita - Metabo - Milwaukee - Sparky



Ref. CELESA	Ref. ULTRA	Ref. BOSCH	DENTI	DIMENSIONI L2 x L1	QUALITÀ	APPLICAZIONI	
LEGNO PROFESSIONALE (TAGLIO PRECISO)							
Ref. P5533	-	T101 DP (Spessore speciale 1,7mm)	TPI 6 P 4 mm	75 x 100 mm	CV	6-60 mm	6-60 mm
						Blister 5u.:	12,99 €
Ref. P5542	-	T301 CD	TPI 8 P 3 mm	90 x 115 mm	CV	6-60 mm	6-60 mm
						Blister 5u.:	13,26 €
Ref. P5544	-	T234 X	TPI 8-10 P 2,5-3,2 mm	90 x 115 mm	CV	1-80 mm	1-80 mm
						Blister 5u.:	19,43 €
Ref. P5522	Ref. 8022	T301 D	TPI 6 P 4 mm	95 x 115 mm	CV	8-75 mm	8-75 mm
						Blister 5u.:	13,05 €
NEW PREMIUM Ref. P5562	-	T308 BFP	TPI 12 P 2 mm	110 x 132 mm	CV	TWIN CUT 30-60 mm	30-60 mm
						Blister 5u.:	23,23 €
Ref. P5555	-	T301 BCP	TPI 12 P 2 mm	110 x 132 mm	CV	3-100 mm	3-100 mm
						Blister 5u.:	16,77 €
Ref. P5548	-	T101 BL	TPI 10 P 2,5 mm	110 x 132 mm	CV	4-100 mm	4-100 mm
						Blister 5u.:	13,13 €
Ref. P5525	-	T301 DL	TPI 6 P 4 mm	110 x 132 mm	CV	6-100 mm	6-100 mm
						Blister 5u.:	13,05 €
Ref. P5547	-	-	TPI 10 P 2,5 mm	220 x 250 mm	CV	4-200 mm	4-200 mm
						Blister 5u.:	52,48 €

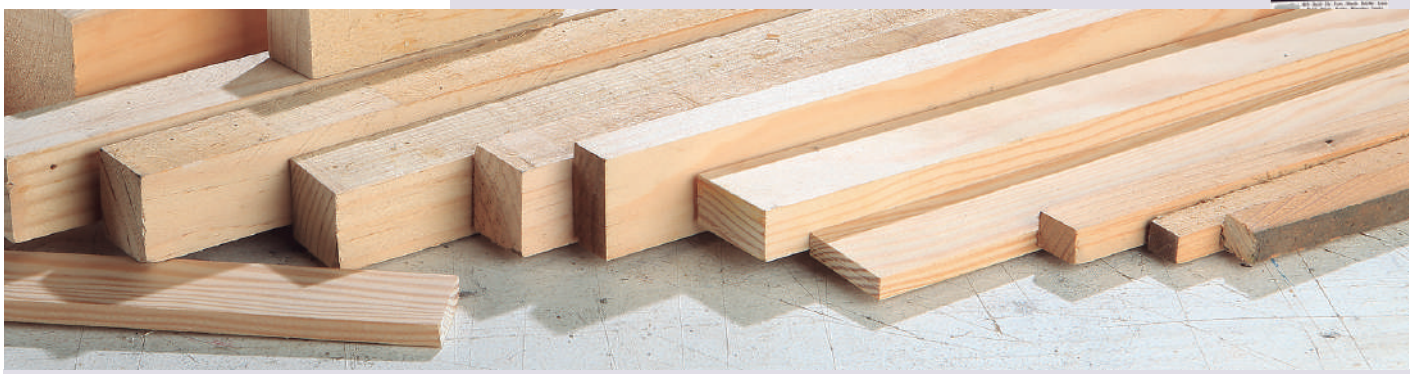
LAME PER SEGHETTI ALTERNATIVI







Attacco adatto per le seguenti macchine:
AEG - Bosch - Elu - Festo - Hitachi - HolzHer - Lenox Mafell - Makita - Metabo - Milwaukee - Sparky



Ref. CELESA	Ref. ULTRA	Ref. BOSCH	DENTI	DIMENSIONI L2 x L1	QUALITÀ	APPLICAZIONI

LEGNO PROFESSIONALE (TAGLIO PRECISO)

Ref. P5552 - -



Tagli curvi chiusi.



TPI 10/11-8 | 2,5/2,2 3,2 mm | 55/85x115 | CV | 3-40 mm | 3-40 mm

Blister 5u.: **25,33 €**

LEGNO PROFESSIONALE (TAGLIO RAPIDO E GROSSO)

Ref. P5503 Ref. 8006 T144 D



TPI 6 | P 4 mm | 75 x 100 mm | CV | 6-60 mm | 6-60 mm

Blister 5u.: **8,69 €**

PREMIUM

Ref. P5560 - T144 DP (Spessore speciale 1,7mm)



1,7 mm | TPI 6 | P 4 mm | 75 x 100 mm | CV | 6-60 mm | 6-60 mm

Blister 5u.: **10,71 €**

Ref. P5504 Ref. 8007 T244 D



TPI 6 | P 4 mm | 75 x 100 mm | CV | 6-60 mm | 6-60 mm

Blister 5u.: **9,83 €**

Ref. P5553 Ref. 8024 ~T344 D



TPI 6 | P 4 mm | 110 x 132 mm | CV | 8-100 mm | 8-100 mm

Blister 5u.: **11,82 €**

PREMIUM

Ref. P5554 Ref. 8080 T344 D



1,25 mm | TPI 6 | P 4 mm | 130 x 150 mm | CV | 5-100 mm | 5-100 mm

Blister 5u.: **15,54 €**

NEW PREMIUM

Ref. P5568 T344 DP



1,7 mm | TPI 6 | P 4 mm | 130 x 150 mm | CV | 5-100 mm | 5-100 mm

Blister 5u.: **17,23 €**

PREMIUM

Ref. P5561 SERIE EXTRA LUNGA T 1044 DP

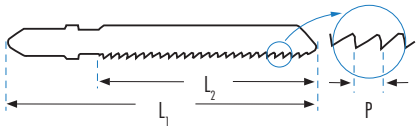


1,7 mm | TPI 6 | P 4 mm | 230 x 250 mm | CV | 8-150 mm | 8-150 mm

Blister 5u.: **45,79 €**

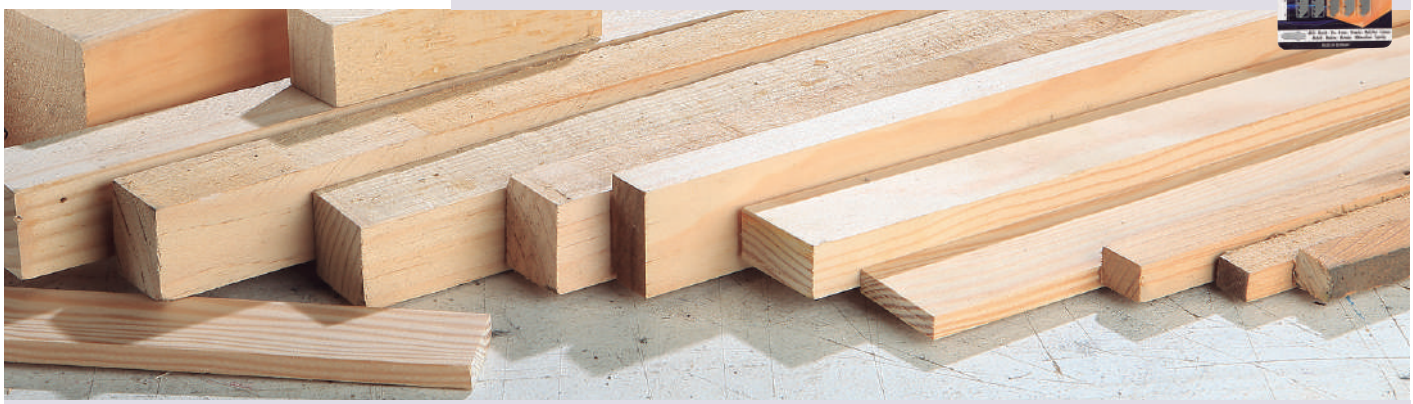
LAME PER SEGHETTI ALTERNATIVI







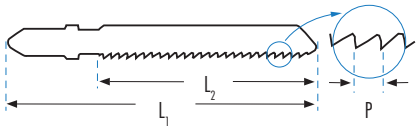
Attacco adatto per le seguenti macchine:
AEG - Bosch - Elu - Festo - Hitachi - HolzHer - Lenox Mafell - Makita - Metabo - Milwaukee - Sparky



Ref. CELESA	Ref. ULTRA	Ref. BOSCH	DENTI	DIMENSIONI L2 x L1	QUALITÀ	APPLICAZIONI
LEGNO CLASSICO (TAGLIO GROSSO)						
Ref. P5506	Ref. 8004	T119 A	TPI 21 P 1,2 mm	50 x 75 mm	CV	2-15 mm / 2-15 mm
					*Fine ad esaurimento scorte	Blister 5u.: 5,93 €
Ref. P5507	Ref. 8005	T119 B	TPI 12 P 2 mm	50 x 75 mm	CV	4-30 mm / 4-30 mm
					*Fine ad esaurimento scorte	Blister 5u.: 5,70 €
Ref. P5508	Ref. 8015	T119 BO	TPI 12 P 2 mm	50 x 75 mm	CV	4-20 mm / 4-20 mm
						Blister 5u.: 8,24 €
Ref. P5505	Ref. 8003	T111 C	TPI 8 P 3 mm	75 x 100 mm	CV	5-60 mm / 5-60 mm
						Blister 5u.: 5,93 €
LEGNO EXTRA PROFESSIONALE (TAGLIO RAPIDO E PRECISO)						
Ref. P5541	-	T101 AIF	TPI 12 P 2 mm	75 x 100 mm	BI	2-30 mm / 2-30 mm
						Blister 5u.: 20,96 €
Ref. P5531	Ref. 8025	T101 BF	TPI 10 P 2,5 mm	75 x 100 mm	BI	4-30 mm / 4-30 mm
						Blister 5u.: 19,40 €
Ref. P5534	Ref. 8021	T144 DF	TPI 6 P 4 mm	75 x 100 mm	BI	5-50 mm / 5-50 mm
						Blister 5u.: 16,95 €
Ref. P5540	-	T345 XF	TPI 6-12 P 2-4 mm	110 x 132 mm	BI	3-65 mm / 3-65 mm
Taglio con dentatura progressiva.						Blister 5u.: 24,09 €

LAME PER SEGHETTI ALTERNATIVI







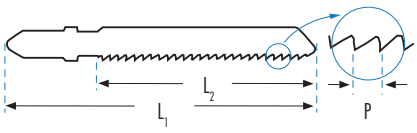
Attacco adatto per le seguenti macchine:
AEG - Bosch - Elu - Festo - Hitachi - HolzHer - Lenox Mafell - Makita - Metabo - Milwaukee - Sparky



Ref. CELESA	Ref. ULTRA	Ref. BOSCH	DENTI	DIMENSIONI L2 x L1	QUALITÀ	APPLICAZIONI	
METALLO CLASSICO							
Ref. P5511	Ref. 8012	T118 G	TPI 28 P 0,9 mm	50 x 75 mm	HSS	0,9-1,2 mm	Al 0,9-1,2 mm
						Blister 5u.:	10,52 €
Ref. P5512	Ref. 8009	T118 A	TPI 21 P 1,2 mm	50 x 75 mm	HSS	1,5-3 mm	Al 1,5-3 mm
						Blister 5u.:	9,92 €
Ref. P5513	Ref. 8010	T218 A	TPI 21 P 1,2 mm	50 x 75 mm	HSS	1,5-3 mm	Al 1,5-3 mm
						Blister 5u.:	11,26 €
Ref. P5514	Ref. 8011	T118 B	TPI 12 P 2 mm	50 x 75 mm	HSS	3-6 mm	Al 3-6 mm
						Blister 5u.:	9,92 €
Ref. P5519	Ref. 8008	T101 A	TPI 12 P 2 mm	75 x 100 mm	HSS	2-20 mm	Al 2-20 mm
						Blister 5u.:	15,87 €
Ref. P5509	Ref. 8013	T127 D	TPI 8 P 3 mm	75 x 100 mm	HSS	3-15 mm	Al 3-15 mm
						Blister 5u.:	12,34 €
Ref. P5559	-	T123 XF	TPI 8 P 1,2/2,5 mm	75 x 100 mm	HSS	1,5-10 mm	Al 1,5-10 mm
						Blister 5u.:	16,97 €
Ref. P5520	Ref. 8016	T318 A	TPI 21 P 1,2 mm	110 x 132 mm	HSS	1,5-3 mm	Al 1,5-3 mm
						Blister 5u.:	15,62 €

LAME PER SEGHETTI ALTERNATIVI







Attacco adatto per le seguenti macchine:
AEG - Bosch - Elu - Festo - Hitachi - HolzHer - Lenox Mafell - Makita - Metabo - Milwaukee - Sparky

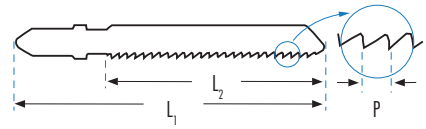


Ref. CELESA	Ref. ULTRA	Ref. BOSCH	DENTI	DIMENSIONI L2 x L1	QUALITÀ	APPLICAZIONI		
METALLO EXTRA PROFESSIONALE								
Ref. P5524	Ref. 8027	T118 AF	TPI 21 P 1,2 mm	50 x 75 mm	BI	1,5-3 mm	INOX 1,5-3 mm	Al 1,5-3 mm
						Blister 5u.:		12,49 €
Ref. P5523	Ref. 8028	T118 BF	TPI 12 P 2 mm	50 x 75 mm	BI	2-6 mm	INOX 2-6 mm	Al 2-6 mm
						Blister 5u.:		12,84 €
Ref. P5551	-	~T318 AF	TPI 21 P 1,2 mm	75 x 100 mm	BI	1,5-3 mm	INOX 1,5-3 mm	Al 1,5-3 mm
						Blister 5u.:		14,81 €
Ref. P5537	-	T127 DF	TPI 8 P 3 mm	75 x 100 mm	BI	3-15 mm	INOX 3-15 mm	Al 3-15 mm
						Blister 5u.:		16,13 €
Ref. P5535	Ref. 8019	T318 AF	TPI 21 P 1,2 mm	110 x 132 mm	BI	1,5-3 mm	INOX 1,5-3 mm	2-65 mm
						Blister 5u.:		23,86 €
Ref. P5536	Ref. 8020	T318 BF	TPI 12 P 2 mm	110 x 132 mm	BI	2-6 mm	INOX 2-6 mm	2-85 mm
						Blister 5u.:		23,86 €



Ref. CELESA	Ref. ULTRA	Ref. BOSCH		DENTI	DIMENSIONI L2 x L1	QUALITÀ	APPLICAZIONI	
PANNELLO SANDWICH								
Ref. P5546	Ref. 8082	T718 BF	SANDWICH	TPI 18 P 1,4 mm	180 x 200 mm	BI	2-180 mm	1,5-3 mm
						Blister 5u.:		46,79 €
Ref. P5566		T 1018 AFP	SANDWICH	TPI 18 P 1,2 mm	230 x 250 mm	BI	2-210 mm	1-3 mm
						Blister 5u.:		55,95 €

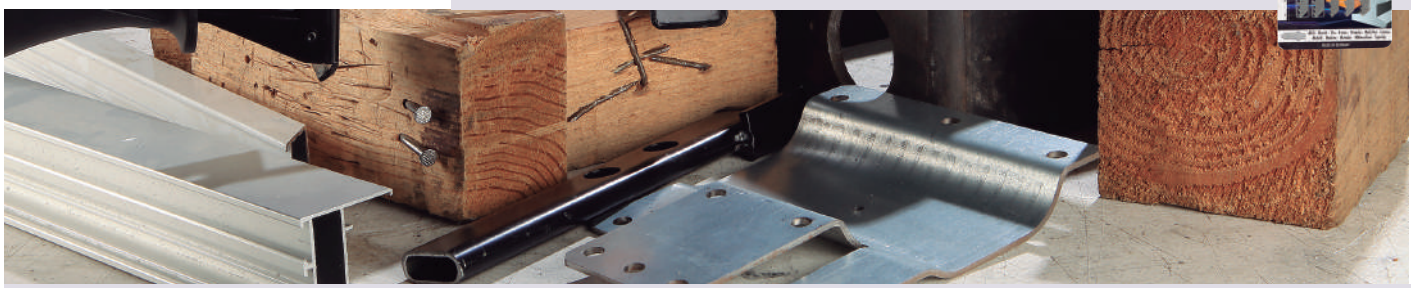
LAME PER SEGHETTI ALTERNATIVI



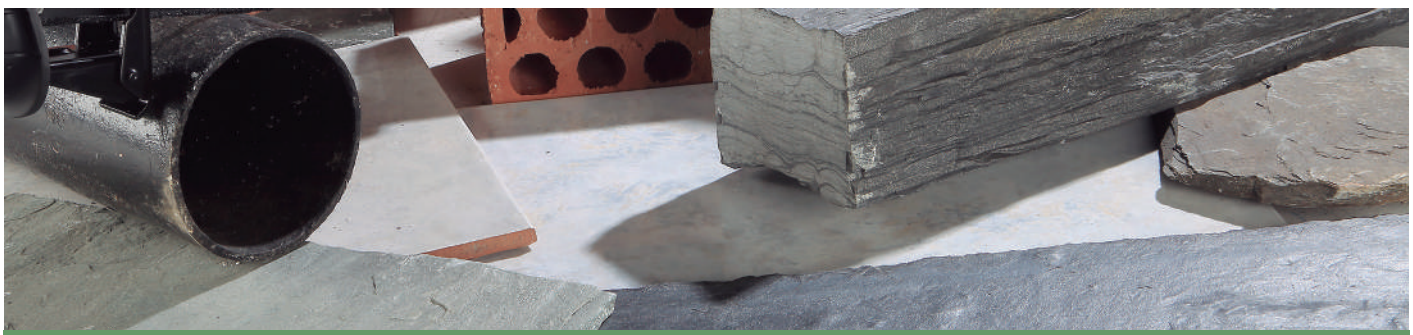


Attacco adatto per le seguenti macchine:
AEG - Bosch - Elu - Festo - Hitachi - HolzHer - Lenox Mafell - Makita - Metabo - Milwaukee - Sparky





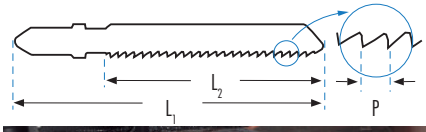
Ref. CELESA	Ref. ULTRA	Ref. BOSCH		DENTI	DIMENSIONI L2 x L1	QUALITÀ			APPLICAZIONI
MULTIUSO									
Ref. P5526	Ref. 8017	-		TPI 14/10 P 1,8/2,5 mm	110 x 132 mm	BI	3-100 mm	1,5-3 mm	INOX 1,5-3 mm
Dentatura variabile									
									Blister 5u.: **22,49 €**
Ref. P5549		1U.tà 5532 1U.tà 5545 1U.tà 5550 1U.tà 5526	1U.tà 5551	TPI P Vari	75 x 110 110 x 132	BI/CV	3-100 mm	1,5-3 mm	INOX 1,5-3 mm
									Blister 5u.: **17,42 €**



DIAMANTE									
Ref. JIG55/427	-	-		Grana Fine	55 x 78 mm			1-15 mm	1-15 mm
									Custodia 1u.: **46,53 €**
Ref. JIG55/602	-	-		Grana Grossa	55 x 78 mm			1-15 mm	1-15 mm
									Custodia 1u.: **46,53 €**
Ref. JIG75/427	-	-		Grana Fine	75 x 96 mm			1-20 mm	1-15 mm
									Custodia 1u.: **52,58 €**
Ref. JIG75/602	-	-		Grana Grossa	75 x 100 mm			1-20 mm	1-20 mm
									Custodia 1u.: **52,58 €**

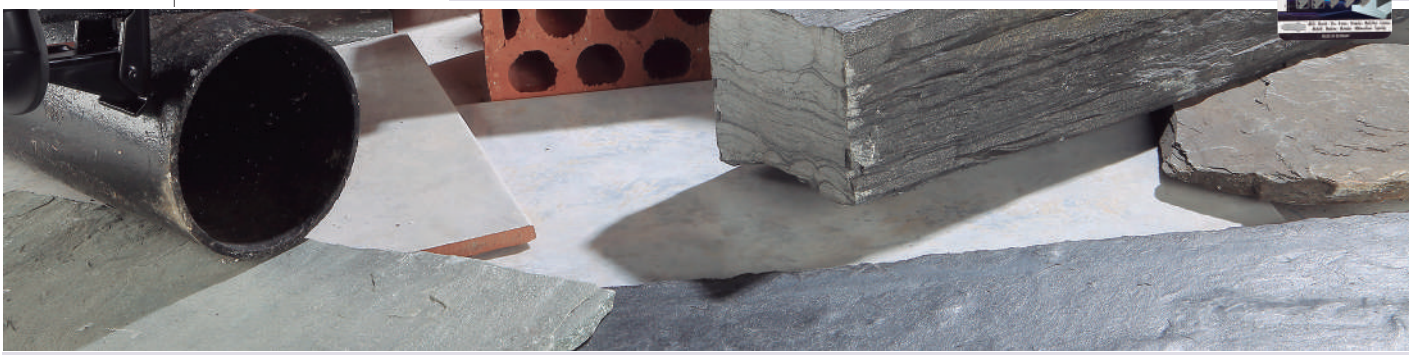
LAME PER SEGHETTI ALTERNATIVI



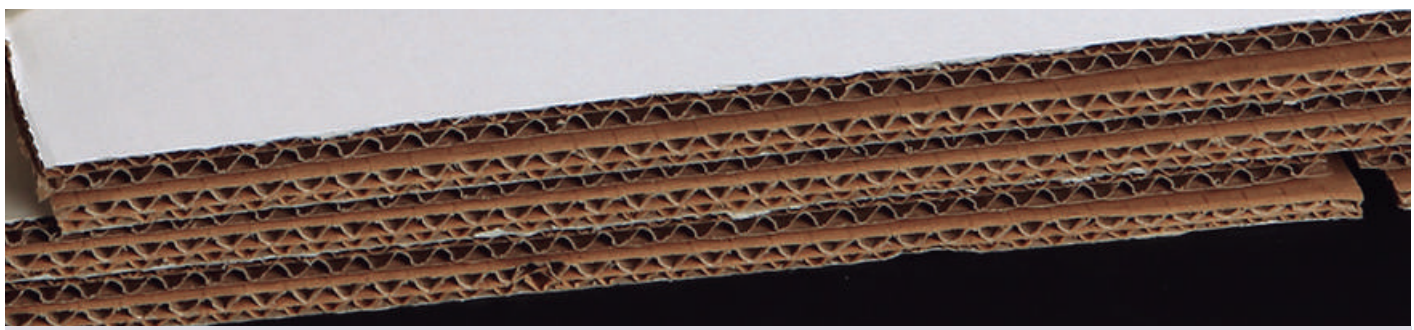




Attacco adatto per le seguenti macchine:
AEG - Bosch - Elu - Festo - Hitachi - HolzHer - Lenox Mafell - Makita - Metabo - Milwaukee - Sparky



Ref. CELESA	Ref. ULTRA	Ref. BOSCH	DENTI	DIMENSIONI L2 x L1	QUALITÀ	APPLICAZIONI
METALLO DURO						
Ref. P5538	-	T141 HM	TPI 6 P 4,3 mm	75 x 100 mm		5-50 mm / 5-50 mm
Applicazione speciale Fibra di vetro e Gesso laminato						Custodia 1u.: **20,33 €**
Ref. P5539	-	T118 EHM	TPI 18 P 1,4 mm	50 x 75 mm		1-5 mm / 1-5 mm
Applicazione speciale Fibra di vetro e Gesso laminato						Custodia 3u.: **38,12 €**
Ref. GJ12	Ref. 8040	T150 RIFF	Grana Fine	54 x 75 mm	Tungsteno	2-15 mm / 2-15 mm
· Applicazione speciale Ceramica						Custodia 5u.: **19,32 €**
Ref. GJ14	-	T130 RIFF	Grana Grossa	54 x 75 mm	Tungsteno	2-15 mm / 2-15 mm
· Applicazione speciale Ceramica						Custodia 5u.: **19,22 €**



Ref. CELESA	Ref. ULTRA	Ref. BOSCH	DENTI	DIMENSIONI L2 x L1	QUALITÀ	APPLICAZIONI
LAME SENZA DENTI						
Ref. P5557	-	T313AW		127 x 152 mm	CV	1-100 mm
						Custodia 5u.: **62,35 €**
Ref. P5558	-	T113A		75 x 100 mm	CV	1-50 mm
						Blister 5u.: **26,43 €**

TABELLA DI EQUIVALENZA DI LAME PER SEGHETTI ALTERNATIVI

CODICE CELESA	BOSCH	ASEIN	A.E.G.	MAKITA	LENOX	METABO	FESTO	HITACHI	ULTRA	STARRET
LEGNO PROFESSIONALE (TAGLIO PRECISO)										
P5543	T101 AO	2113	373392	-	-	23651	S50/1,4	-	-	-
P5501	T101 B	2110	254061	P-04606	F 450 S	23624	S75/2,5	12501	8001	KGF108
P5532	-	-	-	-	-	-	-	-	-	-
P5516	T 101 BR	2114	346079	P-04662	F 450 SR	-	-	-	8018	KGF121
P5550	T 101AIF	-	-	-	-	-	-	-	-	-
P5545	T 301CD	-	-	-	-	-	-	-	-	-
P5502	T 101 D	2170	275351	P-04612	F 416 SC	23635	-	12502	8002	KGF110
P5533	T 101 DP	2172	373080	-	-	23655	S75/4FS	-	-	-
P5542	T 301CD	2150	-	-	-	23977	-	-	-	-
P5544	T 234 X	2105	-	-	-	-	-	-	-	-
P5522	T 301 D	-	-	-	F 410 S	-	-	-	8022	KGF120
P5562	T 308 BFP	-	-	-	-	-	-	-	-	-
P5555	T 301 BCP	-	-	-	-	-	-	-	-	-
P5548	T 101 BL	-	-	-	-	-	-	-	-	-
P5525	T 301 DL	2180	346071	-	-	-	-	-	-	-
P5547	-	-	-	-	-	-	-	-	-	-
P5552	-	-	-	-	-	-	-	-	-	-
LEGNO PROFESSIONALE (TAGLIO RAPIDO E GROSSO)										
P5503	T144 D	2360	213116	P-04640	F 406 S	23633	S75/4	12504	8006	-
P5560	T144 DP	-	-	-	-	-	-	-	-	-
P5504	T244 D	2370	265654	P-04656	-	23649	S75/4K	12505	8007	-
P5553	~T344 D	-	-	-	-	-	-	-	8024	-
P5554	T344 D	-	-	-	-	-	-	-	8080	-
P5568	T344 DP	-	-	-	-	-	-	-	-	-
P5561	T 1044 DP	-	-	-	-	-	-	-	-	-
LEGNO CLASSICO (TAGLIO GROSSO)										
P5506	T119 A	2400	274352	-	-	23630	-	-	8004	-
P5507	T119 B	2410	274353	P-04581	F 410 S	23631	-	-	8005	KGF106
P5508	T119 BO	2413	274650	P-04597	F 416 SC	23646	-	-	8015	KGF105
P5505	T111 C	2280	254071	P-04628	-	23632	S75/3	12503	8003	KGF111
LEGNO EXTRA PROFESSIONALE (TAGLIO RAPIDO E PRECISO)										
P5541	T101 AIF	-	-	-	-	-	-	-	-	-
P5531	T101 BF	2111	373390	P-31594	-	23975	S75/2,5 BI	-	8025	KBS108
P5534	T144 DF	2361	373391	P-31588	-	23976	S75/4BI	-	8021	KBS116
P5540	T345 XF	-	-	-	-	-	-	-	-	-
METALLO CLASSICO										
P5511	T118 G	2520	274652	P-04525	-	23636	-	12513	8012	KRS106
P5512	T118 A	2550	254063	254063	F 324 S	23637	-	12511	8009	KRS105
P5513	T218 A	2560	346082	P-04569	F 318 SC	23647	HS 50/1,2	-	8010	KRS107
P5514	T118 B	2650	254064	P-04519	F 340 SV	23638	HS 50/2	12512	8011	KRS103
P5519	T101 A	2501	274651	P-04553	F 314 S	23640	-	-	8008	-
P5509	T127 D	2760	274315	P-04531	F 410 S	23639	HS 75/3	12510	8013	KRS108
P5559	T123 XF	-	-	-	-	-	-	-	-	-
P5520	T318 A	-	274654	-	F 518 S	23629	-	-	8016	KRS110
METALLO EXTRA PROFESSIONALE										
P5524	T118 AF	2551	340011	-	F 324 S	23971	HS60/1,2BI	-	8027	KBS105
P5523	T118 BF	2651	340012	-	F 314 S	23973	HS60/2BI	-	8028	KBS103
P5551	~T118AF	-	-	-	-	-	-	-	-	-
P5537	T127 DF	2761	340014	-	-	23974	HS75/3BI	-	-	KBS111
P5535	T318 AF	2571	274654	-	-	23978	HS105/1,2BI	-	8019	-
P5536	T318 BF	2671	274653	-	-	23979	HS105/2BI	-	8020	-
PANELLO SANDWICH										
P5546	T718BF	-	-	-	-	-	-	-	8082	-
P5566	T 1018 AFP	-	-	-	-	-	-	-		-
MULTIUSO										
P5526	-	-	-	-	-	-	-	-	-	-
P5549	-	-	-	-	-	-	-	-	-	-
METALLO DURO										
JIG55/427	-	-	-	-	-	-	-	-	-	-
JIG55/602	-	-	-	-	-	-	-	-	-	-
JIG75/427	-	-	-	-	-	-	-	-	-	-
JIG75/602	-	-	-	-	-	-	-	-	-	-
DIAMANTE										
P5538	T141 HM	2890	-	P-38766	-	23652	HM75/4,5	-	8017	-
P5539	T118 EHM	2585	373394	-	-	23663	-	-	-	-
GJ12	T150 RIFF	-	213-232	-	300SG	23.658	-	-	-	-
GJ14	T130 RIFF	-	213-231	-	-	23.657	-	-	-	-
LAME SENZA DENTI										
P5557	T313 AW	-	-	-	-	-	-	-	-	-
P5558	T113 A	-	-	-	-	-	-	-	-	-

LAME PER SEGHETTI ALTERNATIVI PER MACCHINE PNEUMATICHE

Attacco adatto per le seguenti macchine:
Fein, Spitznas, Premag, Rocwell

Ref. CELESA	DENTI	DIMENSIONI L2 x L1	QUALITÀ	APPLICAZIONI		
FABBRICAZIONE DI CARROZZERIE						
Ref. RHS151110 	TPI 24 P 1 mm	100 mm	BI	INOX 1-2 mm	 1 -2 mm	 1-2 mm
					Blister 5u.:	**26,24 €**
APPLICAZIONI ESTREME						
Ref. RHS161110-500 	TPI 15 P 1,6 mm	500 mm	HSS	INOX 2-6 mm	 2-6 mm	 2-6 mm
					Custodia 1u.:	**43,92 €**

BLUE-MASTER®
by celesa



LAME PER SEGHE A GATTUCCIO



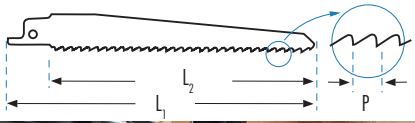
SELEZIONE DELLE LAME PER SEGHE A GATTUCCIO

CODICE CELESA	CODICE BOSCH	MATERIALE	LUNG. TAGLIO	FINITURA	VELOCITÀ	DENTATURA	TAGLIO CURVILINEO	LEGNO					
								Legno Duro	Pannelli in fibra di legno (MD)	Compensato	Pallet	Legno + chiodi	Potatura
LEGNO "CLASSICO CV"													
WC608	S644D	CV	130	Normale	Rapido	4,2	*	6-100	6-100	6-100			6-100
WCD606	S744D	CV	130	Normale	Normale	4,2	*	6-100	6-100	6-100			6-100
WC4031	-	CV	130	Normale	Normale	6,2		20-100	20-100	20-100			20-100
AG4053	S617K	CV	130	Grossa	Rapido	8,5	*	20-100	20-100	20-100			20-100
AG4045	-	CV	210	X-Fine	X-Rapido	2,5	*	6-180	6-180	6-180			6-180
AG923	S2345X	CV	210	X-Fine	X-Rapido	3,8		6-100	6-100	6-100			6-100
AG4054	S1111K	CV	210	Grossa	Rapido	8,5		20-250	20-250	20-250			20-250
WCD1206	S1344D	CV	280	Normale	Rapido	4,2		6-250	6-250	6-250			6-250
WC1208	S1617K	CV	280	Grossa	Rapido	8,5		20-250	20-250	20-250			20-250
LEGNO VERDE, POTATURA													
AG4052	S1531L	CV	210	Fine	Rapido	5/6,5		15-190	15-190	15-190			15-190
AG4055	S1542K	CV	210	Grossa	Rapido	8,5		15-150	15-150	15-150			15-150
LAME PER LA RIPARAZIONE DI PALLET													
AG916		Bi	195			1,8-2,5					✓		
AG917		Bi	210			1,8-2,5					✓		
AG918		Bi	195			1,8-2,5					✓		
AG919		Bi	210			1,8-2,5					✓		
LEGNO CON CHIODI													
AG610	S922HF	Bi	130	Pulito	Normale	2,5						3-100	
AG611	Lenox 810R	Bi	180	Pulito	Normale	2,5						3-150	
AG612	S1122HF	Bi	210	Pulito	Normale	2,5					3-190		
AG913	S1025BF	Bi	280	Pulito	Normale	2					3-270		
LEGNO CON CHIODI (TAGLIO GROSSO)													
AG608	S628DF	Bi	130F	Grossa	Normale	4,2	*	6-100	6-100	6-100			
AG906	-	Bi	210F	Grossa	Normale	4,2	*	6-180	6-180	6-180			
AG1208	S1411DF	Bi	280	Grossa	Normale	4,2		6-250	6-250	6-250			
TUBI, PROFILATI E LAMIERE DI SPESSORE FINE													
AG224	S522AF	Bi	80	Normale	Normale	1							
AG218	S522EF	Bi	80	Normale	Normale	1,4							
AG324	S922AF	Bi	130	Normale	Normale	1							
AG418	S1122EF	Bi	180	Fine	Normale	1,4							
AG922	S1122EF	Bi	210	Fine	Normale	1,4							
METALLI PER EDILIZIA													
AG901	S1020CF	Bi	210	Fine	Rapido	4,2		<190	<190	<190		<190	
AG902	-	Bi	210	Fine	Rapido	2,5-3,2						<190	
AG920	S1125VF	Bi	205	Fine	Rapido	1,8-2,25							
TUBI E PROFILATI DI SPESSORE GROSSO													
AG318	S922EF	Bi	130	Normale	Normale	1,4							
AG214	S522BF	Bi	80	Normale	Normale	1,8							
AG314	S922BF	Bi	130	Normale	Normale	1,8							
AG441	~S1122BF	Bi	180	Normale	Normale	1,8							
AG903	S1122BF	Bi	210	Normale	Normale	1,8						3-180	
AG904	31124M	Bi	280	Fine	Rapido	1,8							
AG909	S936BEF	Bi	130	Pulito	Normale	1,8						3-100	
AG924	S927BEF	Bi	130	Pulito	Normale	1,4-1,8							
AG910	S1136BEF	Bi	205	Pulito	Normale	1,8					3-180		
AG921	S1126BEF	Bi	205	Normale	Normale	1,4-1,8							
AG412	S1225VF	Bi	400	Fine	Normale	1,8-2,5							
AG413	-	Bi	400	Pulito	Normale	1,8-2,5							
MATERIALI ABRASIVI E TUBI IN GHISA													
GR20	-	MD	130	Fine	Rapido	-						1-10	
GR24	-	MD	180	Fine	Rapido	-						1-10	
GR26	S1130RIFF	MD	200	Fine	Rapido	-						1-10	
FIBRA DI VETRO E CALCESTRUZZO CELLULARE													
AG450	-	CV	63	Fine	Rapido	-							
MATERIALI ISOLANTI													
AG614	S 1113 AWP	CV	205	Fine	Rapido								
AG615	-	CV	280	Fine	Rapido								
MULTIUSO													
AG912	S123XF	Bi	130			1,8-3,2		3-100	3-100	3-100		3-100	
AG911	S3456XF	Bi	180			2,5-3,2		3-150	3-150	3-150		3-150	
AG410	S1122VF	Bi	180F			1,8/2,5		3-150	3-150	3-150		3-150	
AG914	-	Bi	180			4,2-2,5		10-150	10-150	10-150		3-150	10-150
AG443	S1211H	Bi	280			2,5		10-150	10-150	10-150		3-150	10-150
AG411	S1222VF	Bi	280			1,8/2,5		2-250	2-250	2-250		2-250	2-250
ALIMENTAZIONE													
AG905	51211K	Inox	280			8,5							
RIFORMATORI: LEGNO E METALLO													
AG953	S956DHM	MD	130			4,2		<100				<100	
AG960	-	MD	210			3,6-5,1		5-175				5-175	
AG954	S1156XHM	MD	210			4,2		5-175				5-175	
AG955	S1256XHM	MD	280			4,2		5-250				5-250	
AG961	-	MD	210			8		5-200				5-200	
AG962	-	MD	280			8		5-250				5-250	
RIPARAZIONE PALLET													
AG963	-	MD	180			3							
METALLO													
AG950	S955CHM	MD	130			3							
AG951	S1155CHM	MD	210			3							
AG958	-	MD	210			2,54							
AG967	S1157CHM	MD	205			3							
AG952	S1255CHM	MD	280			3							
AG959	-	MD	280			2,54							
RIFORMATORI: MATERIALI EDILIZIA													
GR28	S641HM	MD	130			4,2							
GR30	S1543HM	MD	150			13		6-150					
GR32	S1243HM	MD	250			13		6-200					
GR34	S1243HM	MD	185			13		6-200					
AG956	S1141HM	MD	210			8,5							
AG957	S1241HM	MD	280			8,5							

SELEZIONE DELLE LAME PER SEGHE A GATTUCCIO

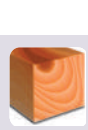
METALLI							ALTRI MATERIALI						
INOX			Cu-Ni-La	Al			PVC						
INOX	Metalli in generale	Lamiera in acciaio	Materiali non ferrosi	Alluminio	Tubi in acciaio	Tubi in ghisa grigia	Plastiche in generale	Calcestruzzo cellulare	Ceramica	Intonaco di cartone	Vetri	Profili per finestre	Alimentazione
LEGNO "CLASSICO CV"													
							6-100						
							6-100						
							6-250						
LEGNO VERDE, POTATURA													
LAME PER LA RIPARAZIONE DI PALLET													
MADERA CON CLAVOS													
3-12	3-12		3-12	3-12	3-12	3-12	3-12						
3-12	3-12		3-12	3-12	3-12	3-12	3-12						
3-12	3-12		3-12	3-12	3-12	3-12	3-12						
2,5-10	2,5-10		2,5-10	2,5-10	2,5-10	2,5-10	2,5-10						
LEGNO CON CHIODI (TAGLIO GROSSO)													
							6-100						6-100
							6-180						6-250
							6-250						
TUBI, PROFILATI E LAMIERE DI SPESSORE FINE													
>1	>1	>1	>1	>1	>1								
1,5-3	1,5-3	1,5-3	1,5-3	1,5-3	1,5-3								
>1	>1	>1	>1	>1	>1								
1,5-3	1,5-3	1,5-3	1,5-3	1,5-3	1,5-3								
1,5-4	1,5-4	1,5-4	1,5-4	1,5-4	1,5-4								
METALLI PER EDILIZIA													
3-12	3-12	3-12	3-12	3-12	3-12								
4-12	4-12	4-12	4-12	4-12	4-12	4-12							
2-10	2-10	2-10	2-10	2-10	2-10	2-10							
TUBI E PROFILATI DI SPESSORE GROSSO													
1,5-3	1,5-3	1,5-3	1,5-3	1,5-3	1,5-3	1,5-3							<190
2-8	2-8	2-8	2-8	2-8	2-8	2-8							
2-8	2-8	2-8	2-8	2-8	2-8	2-8							2-8
2-8	2-8	2-8	2-8	2-8	2-8	2-8							
2-8	2-8	2-8	2-8	2-8	2-8	2-8							
2-8	2-8	2-8	2-8	2-8	2-8	2-8							
3-8	3-8		3-8	3-8	3-8	3-8	3-8						
1,5-6	1,5-6	1,5-6	1,5-6	1,5-6	1,5-6	1,5-6							
3-8	3-8		3-8	3-8	3-8	3-8	3-8						
1,5-6	1,5-6	1,5-6	1,5-6	1,5-6	1,5-6	1,5-6							
3-8	3-8	3-8	3-8	3-8	3-8	3-8							
3-8	3-8	3-8	3-8	3-8	3-8	3-8							
MATERIALI ABRASIVI E TUBI IN GHISA													
						ø 50	1-10	1-10	1-10		1-10		
						ø 100	1-10	1-10	1-10		1-10		
						ø 150	1-10	1-10	1-10		1-10		
FIBRA DI VETRO E CALCESTRUZZO CELLULARE													
MATERIALI ISOLANTI													
							3-12	3-12	6-100				
							3-12	3-12	6-250				
MULTIUSO													
3-10	3-10		3-10	3-10	3-10	3-10	3-10						
3-18	3-18		3-18	3-18	3-18	3-18	3-18						
3-12	3-12	3-12	3-12	3-12	3-12	3-12							
3-12	3-12	3-12	3-12	3-12	3-12	3-12	3-12						
3-12	3-12	3-12	3-12	3-12	3-12	3-12							
3-12	3-12	3-12	3-12	3-12	3-12	3-12							
ALIMENTAZIONE													
													3-250
RIFORMATORI: LEGNO E METALLO													
												<100	
RIPARAZIONE PALLET													
METALLO													
5-12	5-12				5-12	5-12							
5-12	5-12				5-12	5-12							
3-8	3-8				3-8	3-8							
5-12	5-12				5-12	5-12							
5-12	5-12				5-12	5-12							
3-8	3-8				3-8	3-8							
RIFORMATORI: MATERIALI EDILIZIA													
							6-100			6-100			
							6-180			6-180			
							6-250			6-250			

LAME PER SEGHE A GATTUCCIO





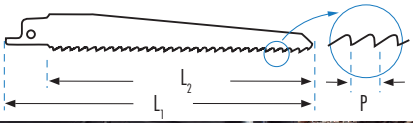
Attacco adatto per le seguenti macchine:
AEG - Bosch - Black & Decker - Metabo - Flex - Hitachi
Milwaukee - Rockwell - Makita - Skil - Dewalt





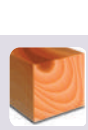
Ref. CELESA	Ref. BOSCH	DENTI	DIMENSIONI L2 x L1	QUALITÀ	APPLICAZIONI
LEGNO CLASSICO CV					
Ref. WC608	S644D (Taglio Rapido)	TPI 6 – P 4,2 mm	130 x 150 mm	CV	6-100 mm / 6-100 mm
					Custodia 5u.: 20,60 €
Ref. WCD606	S744D	TPI 6 – P 4,2 mm	130 x 150 mm	CV	6-100 mm / 6-100 mm
					Custodia 5u.: 19,98 €
Ref. WC4031	-	TPI 4 – P 6,2 mm	130 x 150 mm	CV	20-100 mm / 20-100 mm
					Custodia 5u.: 19,98 €
Ref. AG4053	S617K	TPI 3 – P 8,5 mm	130 x 150 mm	CV	20-100 mm / 20-100 mm
					Custodia 5u.: 20,95 €
Ref. AG4045	-	TPI 10 – P 2,5 mm	210 x 230 mm	CV	6-180 mm / 6-180 mm
· Dentata giapponese					Custodia 5u.: 79,32 €
NEW Ref. AG923	S 2345 X	TPI 7 – P 3,8 mm	210 x 240 mm	CV	6-100 mm / 6-100 mm
· Dentata giapponese					Custodia 5u.: 38,82 €
Ref. AG4054	S1111K	TPI 3 – P 8,5 mm	210 x 230 mm	CV	20-180 mm / 20-180 mm
					Custodia 5u.: 22,11 €
Ref. WCD1206	S1344D	TPI 6 – P 4,2 mm	280 x 300 mm	CV	6-250 mm / 6-250 mm
					Custodia 5u.: 30,71 €
Ref. WC1208	S1617K	TPI 3 – P 8,5 mm	280 x 300 mm	CV	20-250 mm / 20-250 mm
					Custodia 5u.: 30,71 €

LAME PER SEGHE A GATTUCCIO





Attacco adatto per le seguenti macchine:
AEG - Bosch - Black & Decker - Metabo - Flex - Hitachi
Milwaukee - Rockwell - Makita - Skil - Dewalt





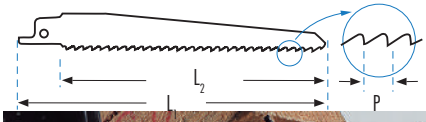


Ref. BOSCH		DENTI	DIMENSIONI L2 x L1	QUALITÀ	APPLICAZIONI
LEGNO VERDE, POTATURA					
Ref. AG4052	S1531L	TPI 5/4 P 5/6,5mm	210 x 230 mm	CV	15-190 mm
				Custodia 5u.:	**31,97 €**
Ref. AG4055	S1542K	TPI 3 P 8,5 mm	210 x 230 mm	CV	15-150 mm
				Custodia 5u.:	**29,66 €**



LAME PER LA RIPARAZIONE DI PALLET					
Ref. AG916	e=0,90	TPI 10/14 P 1,8-2,5 mm	195 x 215 mm	BI	
				Pack 100u.:	**329,88 €**
Ref. AG917	e=0,90	TPI 10/14 P 1,8-2,5 mm	210 x 230 mm	BI	
				Pack 100u.:	**347,11 €**
Ref. AG918	e=1,27	TPI 10/14 P 1,8-2,5 mm	195 x 215 mm	BI	
				Pack 100u.:	**433,17 €**
Ref. AG919	e=1,27	TPI 10/14 P 1,8-2,5 mm	210 x 230 mm	BI	
				Pack 100u.:	**438,90 €**

LAME PER SEGHE A GATTUCCIO





Attacco adatto per le seguenti macchine:
AEG - Bosch - Black & Decker - Metabo - Flex - Hitachi
Milwaukee - Rockwell - Makita - Skil - Dewalt







Ref. CELESA	Ref. BOSCH	DENTI	DIMENSIONI L2 x L1	QUALITÀ	APPLICAZIONI

LEGNO CON CHIODI

Ref. AG610 — S922HF



TPI 10 — P 2,5 mm — 130 x 150 mm — BI

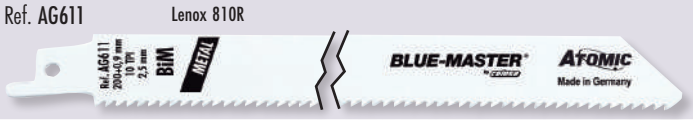


3-100 mm — 3-100 mm

· Indicato per lamiere fini, ristrutturazione di finestre, alluminio, plastiche e resine Epoxy.

Custodia 5u.: **25,41 €**

Ref. AG611 — Lenox 810R



TPI 10 — P 2,5 mm — 180 x 200 mm — BI

3-150 mm — 3-150 mm

· Indicato per lamiere fini, ristrutturazione di pallet e alluminio.

Custodia 5u.: **26,62 €**

Ref. AG612 — S1122HF



TPI 10 — P 2,5 mm — 210 x 230 mm — BI

3-190 mm — 3-190 mm

· Indicato per lamiere fini, ristrutturazione di pallet e alluminio.

Custodia 5u.: **30,40 €**

Ref. AG913 — S1025BF



TPI 13 — P 2 mm — 280 x 300 mm — BI

3-270 mm — 3-270 mm

· Indicato per lamiere fini, plastiche, alluminio, resine Epoxy e tubi in ghisa grigia.

Custodia 5u.: **46,87 €**

LEGNO CON CHIODI (TAGLIO GROSSO)



Ref. AG608 — S628DF — INSTALLAZIONE DI FINESTRE



TPI 6 — P 4,2 mm — 130 x 150 mm — BI

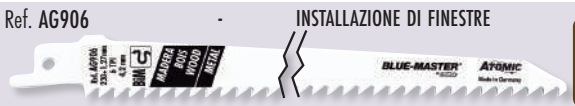


6-100 mm — 6-100 mm

· Indicato per lamiere fini, ristrutturazione di finestre, alluminio, plastiche e resine Epoxy. Taglio curvo.

Custodia 5u.: **25,41 €**

Ref. AG906 — - — INSTALLAZIONE DI FINESTRE



TPI 6 — P 4,2 mm — 210 x 230 mm — BI

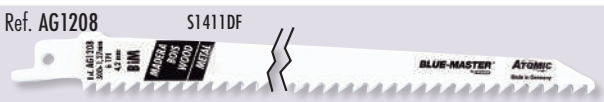


6-180 mm — 6-180 mm

· Indicato per lamiere fini, ristrutturazione di finestre, alluminio, plastiche e resine Epoxy.

Custodia 5u.: **31,93 €**

Ref. AG1208 — S1411DF



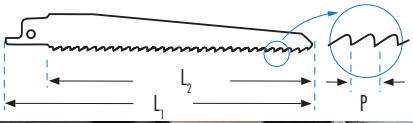
TPI 6 — P 4,2 mm — 280 x 300 mm — BI

6-250 mm — 6-250 mm

· Indicato per lamiere fini, plastiche e resine Epoxy.

Custodia 5u.: **42,55 €**

LAME PER SEGHE A GATTUCCIO

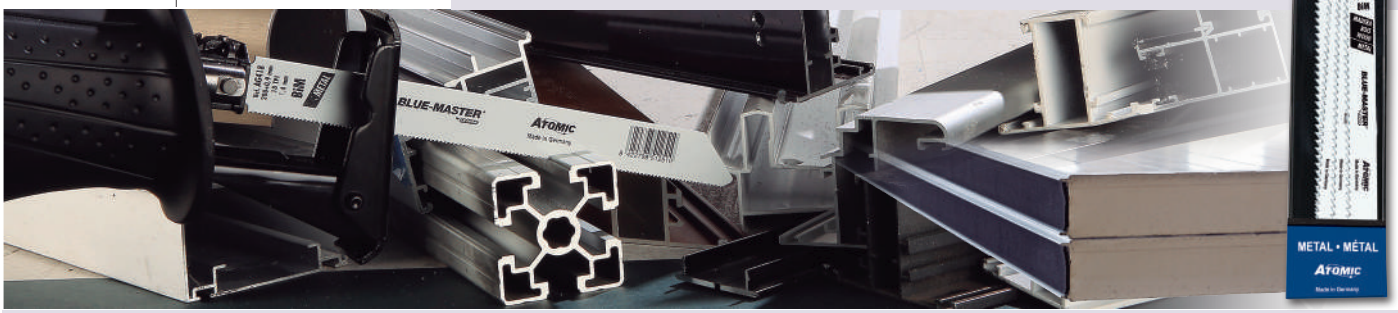




Attacco adatto per le seguenti macchine:
AEG - Bosch - Black & Decker - Metabo - Flex - Hitachi
Milwaukee - Rockwell - Makita - Skil - Dewalt







Ref. CELESA	Ref. BOSCH	DENTI	DIMENSIONI L2 x L1	QUALITÀ	APPLICAZIONI		
TUBI, PROFILATI E LAMIERE DI SPESSORE FINE E PANELLO A SANDWICH							
Ref. AG224	S522AF	TPI 25 P 1 mm	80 x 100 mm	BI	>1 mm	INOX >1 mm	Al >1 mm
					Custodia 5u.:	**16,97 €**	
Ref. AG218	S522EF	TPI 18 P 1,4 mm	80 x 100 mm	BI	1,5-3 mm	INOX 1,5-3 mm	Al 1,5-3 mm
		*Fine ad esaurimento scorte			Custodia 5u.:	**16,97 €**	
Ref. AG324	S922AF	TPI 25 P 1 mm	130 x 150 mm	BI	>1 mm	INOX >1 mm	Al >1 mm
					Custodia 5u.:	**21,05 €**	
Ref. AG418	S1122EF	TPI 18 P 1,4 mm	180 x 200 mm	BI	1,5-3 mm	INOX 1,5-3 mm	Al 1,5-3 mm
					Custodia 5u.:	**33,11 €**	
NEW Ref. AG922	S1122 EF	TPI 18 P 1,4 mm	210 x 230 mm	BI	1,5-4 mm	INOX 1,5-4 mm	Al 1,5-4 mm
					Custodia 5u.:	**40,66 €**	
METALLI PER EDILIZIA							
Ref. AG901*	S1020CF	TPI 6 P 4,2 mm	210 x 230 mm	BI	3-12 mm	INOX 3-12 mm	Al 3-12 mm
					Custodia 5u.:	**64,19 €**	
Ref. AG902	S1120CF	TPI 8/10 P 2,5-3,2 mm	210 x 230 mm	BI	4-12 mm	INOX 4-12 mm	Al 4-12 mm
					Custodia 5u.:	**60,07 €**	
NEW Ref. AG920	S1125VF	TPI 10/14 P 1,8-2,5 mm	205 x 225 mm	BI	2-10 mm	INOX 2-10 mm	Al 2-10 mm
					Custodia 5u.:	**59,89 €**	



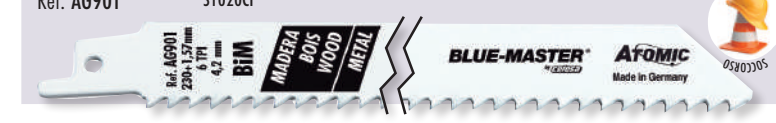




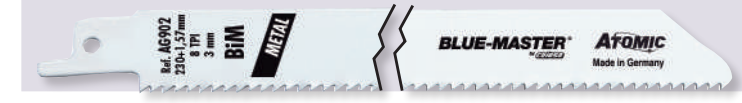






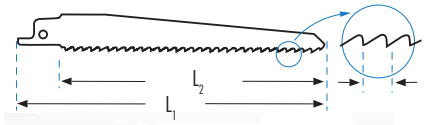


* Queste lame per seghe a gattuccio hanno più spessore rispetto alle altre.





LAME PER SEGHE A GATTUCCIO





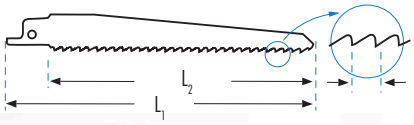
Attacco adatto per le seguenti macchine:
AEG - Bosch - Black & Decker - Metabo - Flex - Hitachi
Milwaukee - Rockwell - Makita - Skil - Dewalt





Ref. CELESA	Ref. BOSCH	DENTI	DIMENSIONI L2 x L1	QUALITÀ	APPLICAZIONI		
TUBI E PROFILATI DI SPESSORE GROSSO							
Ref. AG318	S922EF	TPI 18 P 1,4 mm	130 x 150 mm	BI	1,5-3 mm	INOX 1,5-3 mm	Al 1,5-3 mm
					Custodia 5u.:		21,25 €
Ref. AG214	S522BF	TPI 14 P 1,8 mm	80 x 100 mm	BI	2-8 mm	INOX 2-8 mm	Al 2-8 mm
					Custodia 5u.:		16,97 €
Ref. AG314	S922BF	TPI 14 P 1,8 mm	130 x 150 mm	BI	2-8 mm	INOX 2-8 mm	Al 2-8 mm
					Custodia 5u.:		21,25 €
Ref. AG441	~S1122BF	TPI 14 P 1,8 mm	180 x 200 mm	BI	2-8 mm	INOX 2-8 mm	Al 2-8 mm
					Custodia 5u.:		29,12 €
Ref. AG903	S1122BF	TPI 14 P 1,8 mm	210 x 230 mm	BI	2-8 mm	INOX 2-8 mm	Al 2-8 mm
					Custodia 5u.:		29,21 €
Ref. AG904	31124 Metabo	TPI 14 P 1,8 mm	280 x 300 mm	BI	2-8 mm	INOX 2-8 mm	Al 2-8 mm
					Custodia 5u.:		41,36 €

LAME PER SEGHE A GATTUCCIO





Attacco adatto per le seguenti macchine:
AEG - Bosch - Black & Decker - Metabo - Flex - Hitachi
Milwaukee - Rockwell - Makita - Skil - Dewalt

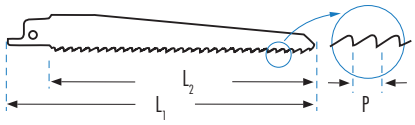






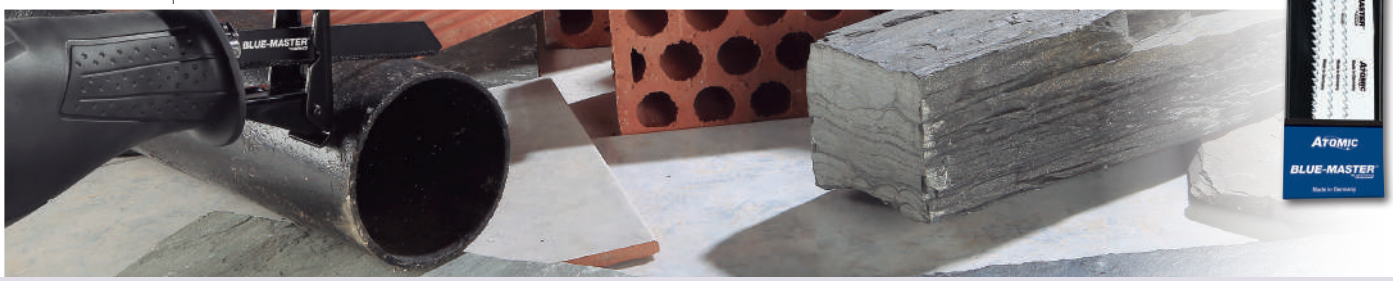
Ref. CELESA	Ref. BOSCH	DENTI	DIMENSIONI L2 x L1	QUALITÀ	APPLICAZIONI		
TUBI E PROFILATI DI SPESSORE GROSSO							
Ref. AG909	S936BEF	TPI 14 / P / 1,8 mm	130 x 150 mm	BI	3-8 mm	INOX 3-8 mm	Al 3-8 mm
					*Fine ad esaurimento scorte	Custodia 5u.:	27,06 €
NEW Ref. AG924	S927BEF	TPI 14/18 / P / 1,4/1,8 mm	130 x 150 mm	BI	1,5-6 mm	INOX 1,5-6 mm	Al 1,5-6 mm
						Custodia 5u.:	37,44 €
Ref. AG910	S1136BEF	TPI 14 / P / 1,8 mm	205 x 225 mm	BI	3-8 mm	INOX 3-8 mm	Al 3-8 mm
						Custodia 5u.:	34,42 €
NEW Ref. AG921	S1126BEF	TPI 14/18 / P / 1,4/1,8 mm	205 x 225 mm	BI	1,5-6 mm	INOX 1,5-6 mm	Al 1,5-6 mm
						Custodia 5u.:	18,82 €
NEW Ref. AG412	S1225VF	1,27mm	TPI 10/14 / P / 1,8-2,5 mm	400 x 380 mm	BI	3-8 mm	INOX 3-8 mm	Al 3-8 mm
						Custodia 2u.:	20,52 €
NEW Ref. AG413		1,57mm	TPI 10/14 / P / 1,8-2,5 mm	400 x 380 mm	BI	3-8 mm	INOX 3-8 mm	Al 3-8 mm
						Custodia 2u.:	35,19 €

LAME PER SEGHE A GATTUCCIO





Attacco adatto per le seguenti macchine:
AEG - Bosch - Black & Decker - Metabo - Flex - Hitachi
Milwaukee - Rockwell - Makita - Skil - Dewalt



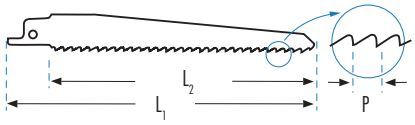


Ref. CELESA	Ref. BOSCH	DENTI	DIMENSIONI L2 x L1	QUALITÀ	APPLICAZIONI
MATERIALI ABRASIVI E TUBI IN GHISA					
Ref. GR20	-	GranaGrossa	130 x 150 mm	Tungsteno	1-10 mm, Ø 50 mm
Custodia 1u.: **5,28 €**					
Ref. GR24	-	GranaGrossa	180 x 200 mm	Tungsteno	1-10 mm, Ø 100 mm
Custodia 1u.: **6,86 €**					
Ref. GR26	S1130RIFF	GranaGrossa	200 x 220 mm	Tungsteno	1-10 mm, Ø 150 mm
Custodia 1u.: **8,77 €**					
CALCESTRUZZO CELLULARE, INTONACO, PLADUR					
NEW Ref. AG450		L 63 mm	CV	<25 mm	
Blister 2u.: **8,86 €**					



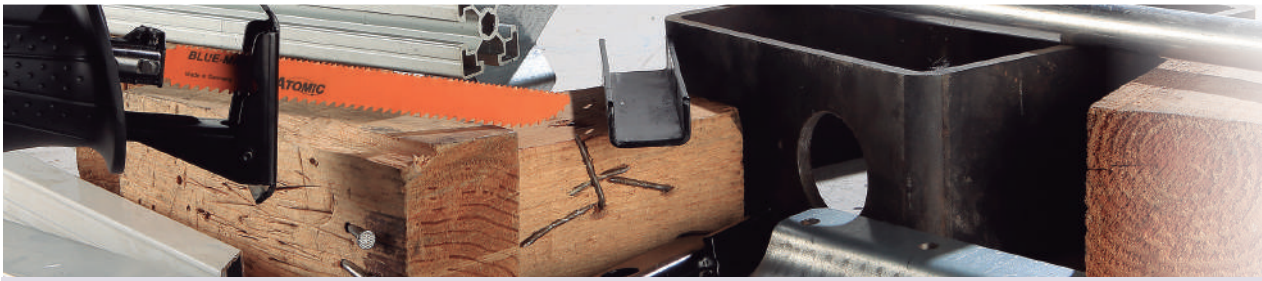
Ref. CELESA	Ref. BOSCH	DENTI	DIMENSIONI L2 x L1	QUALITÀ	APPLICAZIONI
NEW Ref. AG614	S 1113 AWP		205x225 mm	CV	<175 mm
Custodia 2u.: **35,36 €**					
NEW Ref. AG615			280 x300 mm	CV	<250 mm
Custodia 5u.: **37,37 €**					

LAME PER SEGHE A GATTUCCIO





Attacco adatto per le seguenti macchine:
AEG - Bosch - Black & Decker - Metabo - Flex - Hitachi
Milwaukee - Rockwell - Makita - Skil - Dewalt





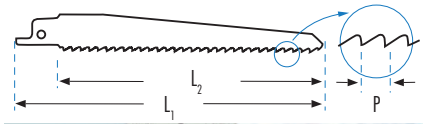
Ref. CELESA	Ref. BOSCH	DENTI	DIMENSIONI L2 x L1	QUALITÀ	APPLICAZIONI		
MULTIUSO							
Ref. AG912	S123XF	TPI 8/10 P 2,5/3,2 mm	130 x 150 mm	BI	3-100 mm	3-100 mm	3-10 mm
					Custodia 5u.:		40,76 €
Ref. AG911	S3456XF	TPI 8/10 P 2,5/3,2 mm	210 x 230 mm	BI	3-150 mm	3-150 mm	3-18 mm
					Custodia 5u.:		62,49 €
Ref. AG410	S1122VF	TPI 14/10 P 1,8/2,5 mm	180 x 200 mm	BI	3-150 mm	3-150 mm	3-12 mm
					Custodia 5u.:		30,17 €
Ref. AG914	-	TPI 6/10 P 4,2/2,5mm	180 x 200 mm	BI	10-150 mm	3-150 mm	3-12 mm
					Custodia 2u.:		25,54 €
Ref. AG443	S1211H	TPI 10 P 2,5 mm	280 x 300 mm	BI	10-150 mm	3-150 mm	3-12 mm
					Custodia 5u.:		35,84 €
Ref. AG411	S1222VF	TPI 14/10 P 1,8/2,5 mm	280 x 300 mm	BI	2-250 mm	2-250 mm	3-12 mm
					Custodia 5u.:		43,99 €



ALIMENTAZIONE

Ref. AG905	S1211K	TPI 3 P 8,5 mm	280 x 300 mm	INOX			3-250 mm
					Custodia 2u.:		33,69 €

LAME PER SEGHE A GATTUCCIO DENTI IN METALLO DURO PER RIFORMATORI





Attacco adatto per le seguenti macchine:
AEG - Bosch - Black & Decker - Metabo - Flex - Hitachi
Milwaukee - Rockwell - Makita - Skil - Dewalt







LAME PER SEGHE A GATTUCCIO PER TAGLIO DI LEGNO E METALLO, LEGNO CON UNGHIE, BULLONI, ECC ...

Alte prestazioni per lavori intensivi in legno e metallo, finestre, legno con accessori in metallo, ecc ...
Ideale per applicazioni in ristrutturazione e smantellamenti. Supporta il possibile attrito, con malta, mattoni e materiali propri del muro dove alloggia il legno.
Legno e metallo specificatamente tagliano la dentellatura della piastra in metallo duro dove falliscono le seghe tradizionali a sciabola bimetalliche.

Ref. CELESA	Ref. BOSCH	DENTI	DIMENSIONI L2 x L1	QUALITÀ	APPLICAZIONI	
LEGNO E METALLI						
Ref. AG953	S 956 DHM	TPI 6 – P – 4,2 mm	130 x 150 mm	MD	<100 mm	<100 mm
					Custodia 1u.:	22,27 €
NEW Ref. AG960		TPI 5-7 – P – 3,6-5,1 mm	210 x 230 mm	MD	5-175 mm	5-175 mm
					Custodia 1u.:	36,62 €
Ref. AG954	S 1156 XHM	TPI 6 – P – 4,2 mm	210 x 230 mm	MD	5-175 mm	5-175 mm
					Custodia 1u.:	36,47 €
Ref. AG955	S 1256 XHM	TPI 6 – P – 4,2 mm	280 x 300 mm	MD	5-250 mm	5-250 mm
					Custodia 1u.:	46,95 €
NEW Ref. AG961		TPI 3 – P – 8 mm	210 x 230 mm	MD	5-200 mm	5-200 mm
					Custodia 1u.:	26,27 €
NEW Ref. AG962		TPI 3 – P – 8 mm	280 x 300 mm	MD	5-250 mm	5-250 mm
					Custodia 1u.:	31,22 €

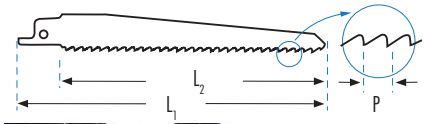
LAME PER LA RIPARAZIONE DI PALLET



NEW Ref. AG963	TPI 8 – P – 3 mm	180 x 200 mm	MD			
				Pack 1u.:	26,88 €	



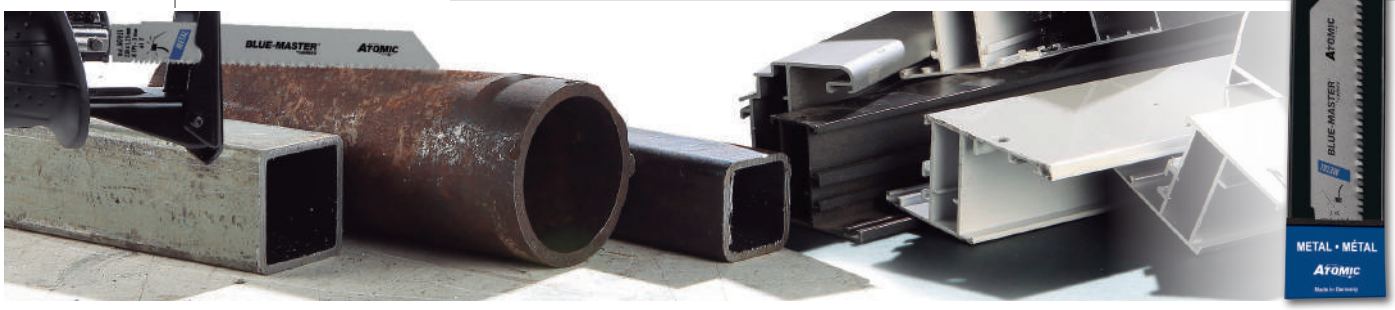
LAME PER SEGHE A GATTUCCIO DENTI IN METALLO DURO





Attacco adatto per le seguenti macchine:
AEG - Bosch - Black & Decker - Metabo - Flex - Hitachi
Milwaukee - Rockwell - Makita - Skil - Dewalt





LAME PER SEGHE A GATTUCCIO PER TAGLIO DI METALLO CON DENTATURA IN METALLO DURO.

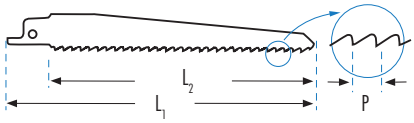
Alte prestazioni per lavori intensivi su metalli ad alta durezza.

Tagli perfettamente dritti in ghisa, acciai altamente legati, acciai ad alta durezza e acciai inossidabili.

Uso intensivo nei tagli per qualsiasi tipo di metallo, in particolare per i riformatori o quei professionisti che vogliono eseguire tagli precisi in lamiera, lamiera o tubi spessi.

Ref. CELESA	Ref. BOSCH	DENTI	DIMENSIONI L2 x L1	QUALITÀ		APPLICAZIONI	
METALLI							
Ref. AG950	S 955 CHM	TPI 8 P 3 mm	130 x 150 mm	MD	5-12 mm		INOX 5-12 mm
						Custodia 1u.:	**23,55 €**
Ref. AG951	S 1155 CHM	TPI 8 P 3 mm	210 x 230 mm	MD	5-12 mm		INOX 5-12 mm
						Custodia 1u.:	**39,74 €**
NEW Ref. AG958		DEMOLIZIONE SOCCORSO TPI 10 P 2,54 mm	210 x 230 mm	MD	3-8 mm		INOX 3-8 mm
						Custodia 1u.:	**41,72 €**
NEW Ref. AG967	S 1157 CHM	DEMOLIZIONE SOCCORSO TPI 8 P 3 mm	205 x 225 mm	MD	5-12 mm		INOX 5-12 mm
						Custodia 1u.:	**38,03 €**
Ref. AG952	S 1255 CHM	TPI 8 P 3 mm	280 x 300 mm	MD	5-12 mm		INOX 5-12 mm
						Custodia 1u.:	**49,87 €**
NEW Ref. AG959		TPI 10 P 2,54 mm	280 x 300 mm	MD	3-8 mm		INOX 3-8 mm
						Custodia 1u.:	**55,50 €**

LAME PER SEGHE A GATTUCCIO DENTI IN METALLO DURO







Attacco adatto per le seguenti macchine:
AEG - Bosch - Black & Decker - Metabo - Flex - Hitachi
Milwaukee - Rockwell - Makita - Skil - Dewalt



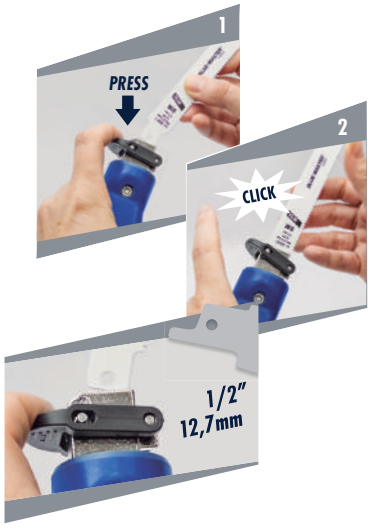
LAME PER SEGHE A GATTUCCIO PER TAGLIO DI PLASTICHE RINFORZATE, FIBRA DI CARBONIO, FIBRA DI VETRO, FIBROCEMENT, INTONACO DI CARTONE.

Alte prestazioni per lavori intensivi su tutti i tipi di materiali da costruzione. Specifico per riforme interne e opere minori.

Denti specifici in lamiera di metallo duro per tutti i tipi di materiali da costruzione in cantieri minori, tagliati dove le seghe a sciabola bimetalliche convenzionali non raggiungono.

Ref. CELESA	Ref. BOSCH	DENTI	DIMENSIONI L2 x L1	QUALITÀ	APPLICAZIONI		
MATERIALE EDILIZIA							
Ref. GR28	S 641 HM	TPI 6 P 4,2 mm	130 x 150 mm	MD	<100 mm	PVC	
					Custodia 1u.:		40,77 €
Ref. GR30	S1543HM	TPI 1,95 P 13 mm	150 x 225 mm	MD	3-12 mm		6-150 mm
					Custodia 1u.:		46,51 €
Ref. GR32	S1243HM	TPI 1,95 P 13 mm	250 x 325 mm	MD	3-12 mm		6-200 mm
					Custodia 1u.:		52,35 €
NEW Ref. GR34	S1243HM	TPI 2 P 13 mm	185 x 240 mm	MD	3-12 mm		6-200 mm
					Custodia 1u.:		45,10 €
Ref. AG956	S 1141 HM	TPI 3 P 8,5 mm	210 x 230 mm	MD	<175 mm	PVC	
					Custodia 1u.:		27,42 €
Ref. AG957	S 1241 HM	TPI 3 P 8,5 mm	280 x 300 mm	MD	<250 mm	PVC	
					Custodia 1u.:		32,60 €

MANICO BIMATERIALE PER TAGLIO CON SEGHE A GATTUCCIO





AG100



- Scomparto per riporre le lame di ricambio. Massimo 6 seghe Fine a 150 mm. (non incluso)
- Pezzo di fissaggio in metallo per serraggio universale da 1/2".
- Cambio rapido tramite leva di fissaggio.
- Fissaggio perfetto, senza gioco e grande resistenza.
- Ottima ergonomia, impugnatura bimateriale antiscivolo.
- Foro per cordino anticaduta.

21,36 €

BLUE-MASTER® by celesa



LAME AD OSCILLAZIONE

STARLOCK



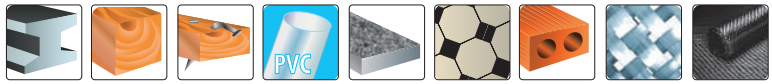
LAME AD OSCILLAZIONE

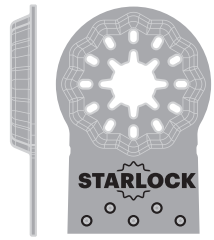
ATTACCO STARLOCK

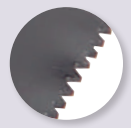
MATERIALE DELLE LAME:

HSS | HSSCo 8% | HCS | MD | DIAMOND | TiN

APPLICAZIONI:





		QUALITÀ	DIMENSIONI L1 x L2				DENTI	
NEW FTKT5204		LONG Life MD TiN	32x32	★★★★★	★	★★★★	★★	 1,35 mm	METALLO
FTKT5205 STARLOCK PLUS		LONG Life MD TiN	32x54	★★★★★	★	★★★★	★★		
FTK5106		LONG Life HSSCo 8%	30x50	★★★★	★	★★			
NEW FTK5120		HSS	Ø85	★★★★	★★	★	★★		
FTK5121		HSS	Ø85	★★★★	★★	★	★★		
FTK5110		LONG Life HSSCo 8%	35x50		EXTRA ★★★★★			 1,81 mm EXTRA	LEGNO EXTRA
FTK5140		HCS	35x50		EXTRA ★★★★				
FTK5117		LONG Life HSSCo 8%	65x50		EXTRA ★★★★★				
FTK5147		HCS	65x50		EXTRA ★★★★				
NEW FTK5111		LONG Life HSSCo 8%	10x30	★★	★★★	★★★	★★	 1,41 mm	MULTIUSO
NEW FTK5109		LONG Life HSSCo 8%	20x34	★★	★★★	★★★	★★		
NEW FTK5126		LONG Life HSSCo 8%	28x55	★★	★★★	★★★	★★		
FTK5132		LONG Life HSSCo 8%	35x50	★★	★★★	★★★	★★		
FTK5108		HCS	35x50	★	★★	★	★		
FTK5130		LONG Life HSSCo 8%	50x42	★★	★★★	★★★	★★		

STARLOCK



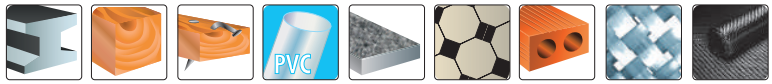
LAME AD OSCILLAZIONE

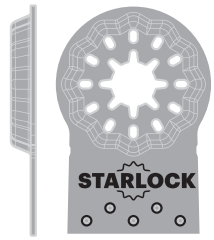
ATTACCO STARLOCK

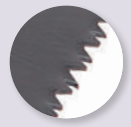
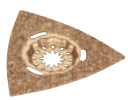
MATERIALE DELLE LAME:

HSS | HSSCo 8% | HCS | MD | DIAMOND | TiN

APPLICAZIONI:



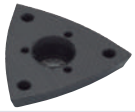


		QUALITÀ	DIMENSIONI L1 x L2					DENTI	
FTK5129		LONG Life HSSCo 8%	65x50	★★	★★★	★★★	★★		MULTIUSO
FTK5113		HCS	65x50	★	★★	★	★		
NEW FTK5127		HIGH Precision HCS	Ø85		★★		★		
									
FTK5302		LONG Life	Ø90	★★★★★	★★★★★	★★★★★	★★★★		EDILIZIA
FTK5201		LONG Life MD	Ø75	★★★★	★★★★	★★★★★	★★★★		
NEW FTK5202		LONG Life MD	80x80x80	★★★★	★★★★	★★★★★	★★★★		
FTK5204 STARLOCK PLUS		LONG Life MD	35x42	★★★★	★★★★	★★★★★	★★★★		

RASCHIETTI

NEW FTK5001		HCS	52x37,5				FLESSIBILE
NEW FTK5002		HCS	52x37,5				RIGIDA
NEW FTK5003		HCS	70x30				

SUPPORTO PER CARTE ABRASIVE

FTK5402	

LAME AD OSCILLAZIONE

Ref. CELESA	Ref. FEIN		QUALITÀ	DIMENSIONI L2 x L1	SPESSORE	DENTI	APPLICAZIONI

LAME DENTATE (METALLO)

NEW
Ref. FTKT5204 — 63502 236 210



LONG Life — MD / TiN — 32 x 32 mm — 1,3 mm — 1,35 mm — PVC

Blister 1 u.: **41,55 €**

Ref. FTKT5205 — 63502 237 210
STARLOCK PLUS



LONG Life — MD / TiN — 32 x 54 mm — 1,3 mm — 1,35 mm — PVC

Blister 1 u.: **44,41 €**

Ref. FTK5106 — 63502 157 210



LONG Life — HSSCo 8% — 30 x 50 mm — 1,3 mm — 1,35 mm — PVC

Blister 1 u.: **22,19 €**

NEW
Ref. FTK5120 — 63502 097 210



HSS — Ø 85 mm — 0,7 mm — 1,35 mm — PVC

Blister 1 u.: **31,82 €**

Ref. FTK5121 — 63502 106 210



HSS — Ø 85 mm — 0,7 mm — 1,35 mm — PVC

Blister 1 u.: **32,94 €**

LAME DENTATE (LEGNO)

Ref. FTK5110 — 63502 205 210



LONG Life — HSSCo 8% — 35 x 50 mm — 1,15 mm — 1,81 mm — EXTRA — PVC

Blister 1 u.: **22,39 €**

Ref. FTK5140 — 63502 126 210



HCS — 35 x 50 mm — 1,15 mm — 1,81 mm — EXTRA — PVC

Blister 1 u.: **19,98 €**

Ref. FTK5117 — 63502 229 210



LONG Life — HSSCo 8% — 65 x 50 mm — 1,15 mm — 1,81 mm — EXTRA — PVC

Blister 1 u.: **25,59 €**

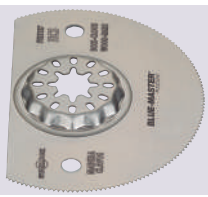
Ref. FTK5147 — 63502 230 210



HCS — 65 x 50 mm — 1,15 mm — 1,81 mm — EXTRA — PVC

Blister 1 u.: **23,02 €**

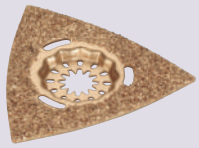
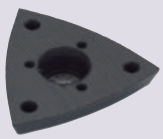
LAME AD OSCILLAZIONE

Ref. CELESA	Ref. FEIN		QUALITÀ	DIMENSIONI L2 x L1	SPESSORE	DENTI	APPLICAZIONI
LAME DENTATE (MULTIUSO)							
NEW Ref. FTK5111	63502 184 210	 LONG Life	HSSCo 8%	 10 x 30 mm	 1,05 mm	 1,41 mm	
Blister 1 u.: **17,23 €**							
NEW Ref. FTK5109	63502 183 210	 LONG Life	HSSCo 8%	 20 x 34 mm	 1,05 mm	 1,41 mm	
Blister 1 u.: **18,60 €**							
NEW Ref. FTK5126	63502 222 210	 LONG Life	HSSCo 8%	 28 x 55 mm	 1,05 mm	 1,41 mm	
Blister 1 u.: **21,21 €**							
Ref. FTK5132	63502 160 210	 LONG Life	HSSCo 8%	 35 x 50 mm	 1,05 mm	 1,41 mm	
Blister 1 u.: **22,59 €**							
Ref. FTK5108	63502 133 210		HCS	 35 x 50 mm	 1,05 mm	 1,41 mm	
Blister 1 u.: **17,42 €**							
Ref. FTK5130	63502 221 210	 LONG Life	HSSCo 8%	 50 x 42 mm	 1,05 mm	 1,41 mm	
Blister 1 u.: **28,45 €**							
Ref. FTK5129	63502 228 210	 LONG Life	HSSCo 8%	 65 x 50 mm	 1,05 mm	 1,41 mm	
Blister 1 u.: **29,20 €**							
Ref. FTK5113	63502 225 210	 CURVED CUT	HCS	 65 x 50 mm	 1,05 mm	 1,41 mm	
Blister 1 u.: **24,45 €**							
NEW Ref. FTK5127	63502 113 210	 HIGH Precision	HCS	 Ø 85 mm	 0,8 mm	 1,41 mm	
Blister 1 u.: **34,62 €**							





LAME AD OSCILLAZIONE

Ref. CELESA	Ref. FEIN		QUALITÀ	DIMENSIONI L2 x L1	SPESSORE	DENTI	APPLICAZIONI
EDILIZIA							
Ref. FTK5302	63502 166 210		LONG Life		2,2 mm	Ø 90 mm	
Blister 1 u.: **86,58 €**							
Ref. FTK5201	63502 118 210		LONG Life	MD	2,2 mm	Ø 75 mm	
Blister 1 u.: **39,45 €**							
NEW Ref. FTK5202	63731 001 210		LONG Life	MD	2,2 mm	80 x 80 x 80 mm	
Blister 1 u.: **39,24 €**							
Ref. FTK5204	63502 191 210		LONG Life	MD	1,5 mm	35 x 42 mm	
STARLOCK PLUS							
Blister 1 u.: **45,66 €**							
RASCHIETTI							
NEW Ref. FTK5001	63903 165 210		HCS	52 x 37,5mm	0,40 mm	FLESSIBILE	
Blister 1 u.: **15,11 €**							
NEW Ref. FTK5002	63903 226 210		HCS	52 x 37,5mm	0,80 mm	RIGIDA	
Blister 1 u.: **15,86 €**							
NEW Ref. FTK5003	63903 245 230		HCS	70 x 30mm	0,40 mm		
Blister 1 u.: **16,28 €**							
SUPPORTO PER FOGLI ABRASIVI							
NEW Ref. FTK5402	63806 136 220		80x80x80mm				
Blister 1 u.: **17,34 €**							
FOGLI ABRASIVI							
GRANA:			Al_2O_3	80x80x80mm	60 Grano/Grain Grão/Grana	80 Grano/Grain Grão/Grana	120 Grano/Grain Grão/Grana
Ref. FM5501 60							
Ref. FM5502 80							
Ref. FM5503 120							
Ref. FM5504 240							
Blister 5 u.: **3,65 €**							
GRANA:	GRANA:		80x80x80mm	60 Grano/Grain Grão/Grana	80 Grano/Grain Grão/Grana	120 Grano/Grain Grão/Grana	240 Grano/Grain Grão/Grana
Ref. FM5520 60	Ref. FM5522 120						
Ref. FM5521 80	Ref. FM5523 240						
Blister 5 u.: **4,01 €**							

LAME AD OSCILLAZIONE IN QUADROPACK

STARLOCK

REFERENZA	FTK5106-12	FTK5110-12	FTK5140-12
	50x50x114	50x50x114	50x50x114
QUALITÀ / DIMENSIONI APPLICAZIONI	HSSCo 8% · 30 x 50 mm · 1,35 mm · PVC	HSSCo 8% · 35 x 50 mm · 1,81 mm · EXTRA · PVC	HCS · 35 x 50 mm · 1,81 mm · EXTRA · PVC
Ref. LAMA x Unità	FTK5106 (x12)	FTK5110 (x12)	FTK5140 (x12)
P.V.P €	239,56	241,76	215,63

REFERENZA	FTK5117-15	FTK5147-15
	71x71x114	71x71x114
QUALITÀ / DIMENSIONI APPLICAZIONI	HCS · 65 x 50 mm · 1,81 mm · EXTRA · PVC	HSSCo 8% · 65 x 50 mm · 1,81 mm · EXTRA · PVC
Ref. LAMA x Unità	FTK5117 (x15)	FTK5147 (x15)
P.V.P €	345,34	310,76

REFERENZA	FTK5132-12 LONG Life	FTK5108-12	NEW FTK5130-15 LONG Life
	50x50x114	50x50x114	71x71x114
QUALITÀ / DIMENSIONI APPLICAZIONI	HSSCo 8% · 35 x 50 mm · 1,41 mm	HCS · 35 x 50 mm · 1,41 mm · PVC	HSSCo 8% · 50 x 50 mm · 1,41 mm
Ref. LAMA x Unità	FTK5132 (x12)	FTK5108 (x12)	FTK5130 (x15)
P.V.P €	243,88	187,95	384,07

REFERENZA	FTK5129-15 LONG Life	FTK5113-15 CURVED CUT	
	71x71x114	71x71x114	
QUALITÀ / DIMENSIONI APPLICAZIONI	HSSCo 8% · 65 x 50 mm · 1,41 mm	HCS · 65 x 50 mm · 1,41 mm · PVC	
Ref. LAMA x Unità	FTK5129 (x15)	FTK5113 (x15)	
P.V.P €	394,27	330,29	

BLUE-MASTER® by celesa



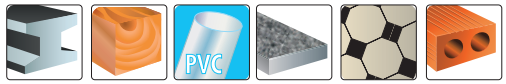
LAME AD OSCILLAZIONE

ATTACCO BLUEMASTER 100% COMPATIBILE

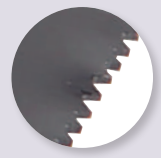
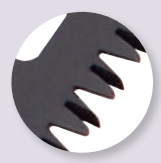
MATERIALE DELLE LAME:

HSS | HSSCo 8% | TiN | HCS | INOX | MD | 

APPLICAZIONI:





	L1 L2	QUALITÀ	DIMENSIONI L1 x L2			PVC	DENTI	
FM5106		HSSCo 8%	34x40	★★★★	★	★		METALLO
FM5112		HSSCo 8%	44x42	★★★★	★	★		
FMT5112		HSSCo 8% TiN	44x42	★★★★	★	★		
FM5116		HSS	28x54	★★★	★	★		
FM5115		HSS	10x24	★★★	★	★		
FM5114		HSS	20x24	★★★	★	★		
FM5124		HSS	Ø80	★★★	★	★		
FM5119		HSS	Ø80	★★★	★	★		
FM5122		HSS	Ø88	★★★	★	★		
FM5123		HSS	Ø88	★★★	★	★		
FM5120		HSS	Ø80	★★★	★	★		
FM5125		HSS	Ø100	★★★	★	★		
FM5129		HSSCo 8%	34x40		★★★★★			LEGNO
FM5130		HSSCo 8%	44x50		★★★★★			
FM5110		HCS	34x40		★★★			
FM5117		HCS	68x42		★★★			
FM5107		HCS	34x40	★	★★★	★★		MULTIUSO
FM5108		HCS	34x40	★	★★★	★★		
FM5113		HCS	68x42	★	★★★	★★		
FM5126		HCS	34x60	★	★★★	★★		

LAME AD OSCILLAZIONE

BLUE-MASTER® by celesa

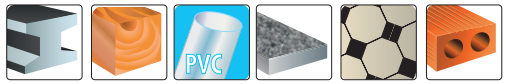


ATTACCO BLUEMASTER 100% COMPATIBILE

MATERIALE DELLE LAME:

HSS | HSSCo 8% | TiN | HCS | INOX | MD | 

APPLICAZIONI:





		QUALITÀ	DIMENSIONI L1 x L2				DENTI	
FM5109		HCS	20x40	★	★★★	★★		MULTIUSO
FM5111		HCS	10x40	★	★★★	★★		
FM5128		HCS	19x39	★	★★★	★★		
FM5104		INOX	20x40		★★★	★★		
FM5102		INOX	31x40		★★★	★★		
FM5101		INOX	32x40		★★★	★★	1,41 mm	
FM5103		INOX	10x40		★★★	★★		
FM5121		HCS	Ø88	★	★★★	★★		
FM5118		HCS	Ø91	★	★★★	★★		
								
FM5201		MD	Ø63,5	★★★★	★★★★	★★★★		EDILIZIA
FM5204		MD	34x40	★★★★	★★★★	★★★★		
FM5202		MD	78x78x78	★★★★	★★★★	★★★★		
FM5203		MD	35x40	★★★★	★★★★	★★★★		
FM5303			58x20	★★★★★	★★★★★	★★★★★		
FM5302			Ø91	★★★★★	★★★★★	★★★★★		
FM5301			Ø63,5	★★★★★	★★★★★	★★★★★		

SUPPORTO PER CARTE ABRASIVE

FM54 

CARTE ABRASIVE

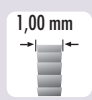
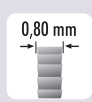
FM55 

RASCHIETTI

FM50 

LAME AD OSCILLAZIONE



Ref. CELESA		QUALITÀ	DIMENSIONI L2 x L1	SPESSORE	DENTI	APPLICAZIONI
LAME DENTATE (METALLO)						
Ref. FM5106 Blister 1 u.: **11,47 €**		HSSCo 8%				
Ref. FM5112 Blister 1 u.: **11,86 €**		HSSCo 8%				
Ref. FMT5112 Blister 1 u.: **12,46 €**		HSSCo 8% TiN				
Ref. FM5116 Blister 1 u.: **9,92 €**		HSS				
Ref. FM5115 Blister 1 u.: **9,76 €*** *Fino ad esaurimento scorte.		HSS				
Ref. FM5114 Blister 1 u.: **9,84 €*** *Fino ad esaurimento scorte.		HSS				
Ref. FM5124 Blister 1 u.: **15,54 €**		HSS				
Ref. FM5119 Blister 1 u.: **15,45 €*** *Fino ad esaurimento scorte.		HSS				
Ref. FM5122 Blister 1 u.: **16,17 €**		HSS				
Ref. FM5123 Blister 1 u.: **15,39 €*** *Fino ad esaurimento scorte.		HSS				
Ref. FM5120 Blister 1 u.: **17,03 €**		HSS				
Ref. FM5125 Blister 1 u.: **17,74 €**		HSS				

LAME AD OSCILLAZIONE



Ref. CELESA		QUALITÀ	DIMENSIONI L2 x L1	SPESSORE	DENTI	APPLICAZIONI
LAME DENTATE (LEGNO)						
Ref. FM5129 Blister 1 u.: **8,99 €**		HSSCo 8%	 34 x 40 mm	 0,60 mm	 1,81 mm	 PVC
Ref. FM5130 Blister 1 u.: **9,78 €**		HSSCo 8%	 44 x 50 mm	 0,60 mm	 1,81 mm	 PVC
Ref. FM5110 Blister 1 u.: **8,52 €**		HCS	 34 x 40 mm	 0,60 mm	 1,81 mm	 PVC
Ref. FM5117 Blister 1 u.: **9,33 €**		HCS	 68 x 42 mm	 0,60 mm	 1,81 mm	 PVC
LAME DENTATE (MULTIUSO)						
Ref. FM5107 Blister 1 u.: **7,91 €**		HCS	 34 x 40 mm	 0,60 mm	 1,41 mm	 PVC
Ref. FM5108 Blister 1 u.: **7,91 €**		HCS	 34 x 40 mm	 0,60 mm	 1,35 mm	 PVC
Ref. FM5113 Blister 1 u.: **8,96 €** *		HCS	 68 x 42 mm	 0,60 mm	 1,41 mm	 PVC
Ref. FM5126 Blister 1 u.: **7,95 €**		HCS	 34 x 60 mm	 0,60 mm	 1,41 mm	 PVC
Ref. FM5109 Blister 1 u.: **7,32 €**		HCS	 20 x 40 mm	 0,60 mm	 1,41 mm	 PVC
Ref. FM5111 Blister 1 u.: **7,18 €**		HCS	 10 x 40 mm	 0,60 mm	 1,41 mm	 PVC
Ref. FM5128 Blister 1 u.: **9,30 €***		HCS	 19 x 39 mm	 0,60 mm	 1,41 mm	 PVC

*Fino ad esaurimento scorte.

*Fino ad esaurimento scorte.

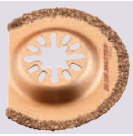
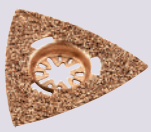
LAME AD OSCILLAZIONE



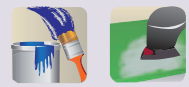
Ref. CELESA		QUALITÀ	DIMENSIONI L2 x L1	SPESSORE	DENTI	APPLICAZIONI		
LAME DENTATE (MULTIUSO)								
Ref. FM5104 Blister 1 u.: **11,72 €**		INOX	20 x 40 mm	0,55 mm	1,41 mm			TAGLIO PULITO
Ref. FM5102 Blister 1 u.: **12,39 €**		INOX	31 x 40 mm	0,55 mm	1,35 mm			TAGLIO PULITO
Ref. FM5101 Blister 1 u.: **12,39 €**		INOX	32 x 40 mm	0,60 mm	1,41 mm			TAGLIO PULITO
Ref. FM5103 Blister 1 u.: **11,72 €**		INOX	10 x 40 mm	0,55 mm	1,41 mm			TAGLIO PULITO
Ref. FM5121 Blister 1 u.: **12,70 €**		HCS	Ø 88 mm	0,60 mm	1,41 mm			
Ref. FM5118 Blister 1 u.: **13,66 €**		HCS	Ø 91 mm	0,60 mm	1,41 mm			

*Fino ad esaurimento scorte.

LAME ABRASIVE PER EDILIZIA

Ref. FM5201 Blister 1 u.: **25,38 €***		MD	Ø 63,5 mm		60 - 80 Grano/Grain Grão/Grana			
Ref. FM5204 Blister 1 u.: **19,41 €**		MD	34 x 40 mm		30 - 40 Grano/Grain Grão/Grana			
Ref. FM5202 Blister 1 u.: **20,53 €**		MD	78x78x78mm		30 - 40 Grano/Grain Grão/Grana			
Ref. FM5203 Blister 1 u.: **15,14 €**		MD	35 x 40mm		30 - 40 Grano/Grain Grão/Grana			
Ref. FM5303 Blister 1 u.: **31,38 €**			58 x 20 mm		40 - 45 Grano/Grain Grão/Grana			
Ref. FM5302 Blister 1 u.: **32,29 €**			Ø 91 mm		40 - 45 Grano/Grain Grão/Grana			
Ref. FM5301 Blister 1 u.: **34,35 €**			Ø 63,5 mm		40 - 45 Grano/Grain Grão/Grana			

LAME AD OSCILLAZIONE

Ref. CELESA		MATERIALE	DIMENSIONI L2 x L1	GRANA	APPLICAZIONI
SUPPORTO PER FOGLI ABRASIVI					
Ref. FM5401		Al_2O_3	 55x40x55mm	 60/120/240 Grano/Grain Grão/ Grana	 Include 3 abrasivi Ref.: FM5509/ FM5511/ FM5512
Blister 1 u.: **16,21 €**					
FOGLI ABRASIVI					
GRANA:		Al_2O_3	 80x80x80mm 60 80 120 240 Grano/Grain Grão/Grana		
Ref. FM5509 60					
Ref. FM5510 80					
Ref. FM5511 120					
Ref. FM5512 240					
Blister 5 u.: **3,65 €**					
SUPPORTO PER FOGLI ABRASIVI					
Ref. FM5402			 80x80x80mm		
Blister 1 u.: **12,08 €**					
FOGLI ABRASIVI					
GRANA:		Al_2O_3	 80x80x80mm 60 80 120 240 Grano/Grain Grão/Grana		
Ref. FM5501 60					
Ref. FM5502 80					
Ref. FM5503 120					
Ref. FM5504 240					
Blister 5 u.: **3,65 €**					
GRANA:			 80x80x80mm 60 80 120 240 Grano/Grain Grão/Grana		
Ref. FM5520 60					
Ref. FM5521 80					
Ref. FM5522 120					
Ref. FM5523 240					
Blister 5 u.: **4,01 €**					

ADATTATORE STARLOCK

NEW

Ref. ADFMQCSTK

Il nuovo adattatore per sega ad socillazione è un utensile innovativo che ti consente di utilizzare le tue attacchi FM e QC con la tua sega STARLOCK in modo semplice ed efficiente. Con questo adattatore potrai ottenere il massimo dalla tua sega ad oscillazione scambiando facilmente tra diversi tipi di attacchi e accessori senza problemi.











ADFMQCSTK
20,91 €

LAME AD OSCILLAZIONE

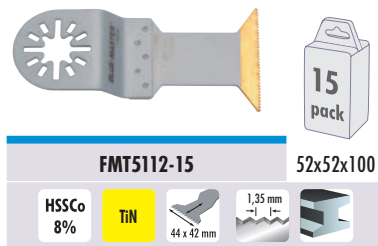
Ref. CELESA		QUALITÀ	DIMENSIONI L2 x L1	SPESSORE		APPLICAZIONI
RASCHIETTI						
Ref. FM5003 Blister 1 u.: **7,45 €***		 INOX	 52 x 29 mm	 0,80 mm		
Ref. FM5002 Blister 1 u.: **7,45 €**		 INOX	 52 x 29 mm	 0,80 mm		
Ref. FM5005 Blister 1 u.: **7,45 €**		 INOX	 30 x 50 mm	 1,00 mm		
Ref. FM5001 Blister 1 u.: **7,45 €**		 INOX	 52 x 40 mm	 0,80 mm		
Ref. FM5006 Blister 1 u.: **6,30 €**		 INOX	 28 x 50 mm			
Ref. FM5004 Blister 1 u.: **7,45 €***		 INOX	 52 x 29 mm	 0,80 mm		

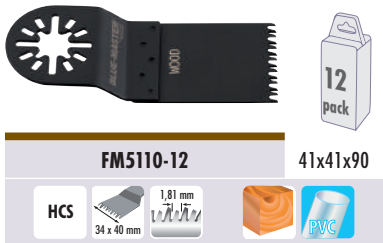
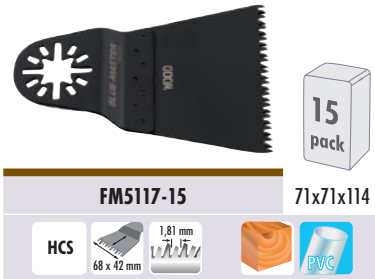
*Fino ad esaurimento scorte.



LAME AD OSCILLAZIONE IN QUADROPACK

ATTACCO BLUEMASTER 100% COMPATIBILE

REFERENZA	**FM5106-12** 41x41x90	**FM5112-15** 52x52x100	**FMT5112-15** 52x52x100
QUALITÀ / DIMENSIONI APPLICAZIONI			
Ref. LAMA x Unità	FM5106 (x12)	FM5112 (x15)	FMT5112 (x15)
P.V.P €	**123,84**	**160,17**	**168,07**

REFERENZA	**FM5110-12** 41x41x90	**FM5117-15** 71x71x114	**FM5108-12** 41x41x90
QUALITÀ / DIMENSIONI APPLICAZIONI			
Ref. LAMA x Unità	FM5110 (x12)	FM5117 (x15)	FM5108 (x12)
P.V.P €	**92,05**	**125,98**	**85,34**

QUICK CHANGE



LAME AD OSCILLAZIONE

ATTACCO QUICK CHANGE

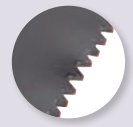
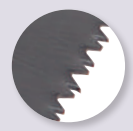
MATERIALE DELLE LAME:

HSS | HSSCo 8% | TiN | HCS | INOX

APPLICAZIONI:



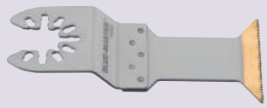


		QUALITÀ	DIMENSIONI L1 x L2			PVC	DENTI	
QC5106		HSSCo 8%	34x40	★★★★	★	★		METALLO
QC5112		HSSCo 8%	44X42	★★★★	★	★		
QCT5112		HSSCo 8% TiN	44X42	★★★★★	★	★		
QC5116		HSS	28x54	★★★	★	★		
QC5124		HSS	Ø80	★★★	★	★		
QC5110		HCS	34x40		★★★★			LEGNO
QC5117		HCS	68x42		★★★★			
QC5130		HSSCo 8%	44x50		★★★★★			
QC5107		HCS	34x40	★	★★★	★★		MULTIUSO
QC5108		HCS	34x40	★	★★★	★★		
QC5113		HCS	68x42	★	★★★	★★		
QC5126		HCS	34x60	★	★★★	★★		
QC5109		HCS	20x40	★	★★★	★★		
QC5121		HCS	Ø88	★	★★★	★★		

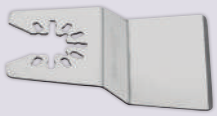
RASCHIETTI

QC5002		INOX	52x29				

LAME AD OSCILLAZIONE

Ref. CELESA		QUALITÀ	DIMENSIONI L2 x L1	SPESSORE	DENTI	APPLICAZIONI
LAME DENTATE (METALLO)						
Ref. QC5106 Blister 1 u.: **11,47 €**		HSSCo 8%				
Ref. QC5112 Blister 1 u.: **11,86 €**		HSSCo 8%				
Ref. QCT5112 Blister 1 u.: **12,46 €**		HSSCo 8% TiN				
Ref. QC5116 Blister 1 u.: **9,92 €**		HSS				
Ref. QC5124 Blister 1 u.: **15,54 €**		HSS				
LAME DENTATE (LEGNO)						
Ref. QC5110 Blister 1 u.: **8,52 €**		HCS				
Ref. QC5117 Blister 1 u.: **9,33 €**		HCS				
Ref. QC5130 Blister 1 u.: **9,78 €**		HSSCo 8%				
LAME DENTATE (MULTIUSO)						
Ref. QC5107 Blister 1 u.: **7,91 €**		HCS				
Ref. QC5108 Blister 1 u.: **7,91 €**		HCS				
Ref. QC5113 Blister 1 u.: **8,96 €**		HCS				

LAME AD OSCILLAZIONE

Ref. CELESA		QUALITÀ	DIMENSIONI L2 x L1	SPESSORE	DENTI	APPLICAZIONI
LAME DENTATE (MULTIUSO)						
Ref. QC5126 Blister 1 u.: **7,95 €**		HCS				
Ref. QC5109 Blister 1 u.: **7,32 €**		HCS				
Ref. QC5121 Blister 1 u.: **12,70 €**		HCS				
RASCHIETTI						
Ref. QC5002 Blister 1 u.: **7,45 €**						

ADATTATORE STARLOCK

NEW

Ref. ADFMQCSTK

Il nuovo adattatore per sega ad socillazione è un utensile innovativo che ti consente di utilizzare le tue attacchi FM e QC con la tua sega STARLOCK in modo semplice ed efficiente. Con questo adattatore potrai ottenere il massimo dalla tua sega ad oscillazione scambiando facilmente tra diversi tipi di attacchi e accessori senza problemi.













ADFMQCSTK
20,91 €

1



2



3



SUPER CUT



LAME AD OSCILLAZIONE

ATTACCO SUPER CUT

MATERIALE DELLE LAME:

HSS | HSSCo 8% | TiN | HCS | INOX

APPLICAZIONI:





		QUALITÀ	DIMENSIONI L1 x L2			PVC	DENTI	
SP5106		HSSCo 8%	34x40	★★★★	★	★	 	METALLO
SP5112		HSSCo 8%	44X42	★★★★	★	★		
SPT5112		HSSCo 8% TiN	44X42	★★★★★	★	★		
SP5116		HSS	28x54	★★★	★	★		
SP5124		HSS	Ø80	★★★	★	★		
SP5125		HSS	Ø100	★★★	★	★		
SP5110		HCS	34x40		★★★		 	LEGNO
SP5117		HCS	68x42		★★★			
SP5127		HCS	75x50		★★★			
SP5107		HCS	34x40	★	★★★	★★	  	MULTIUSO
SP5108		HCS	34x40	★	★★★	★★		
SP5113		HCS	68x42	★	★★★	★★		
SP5109		HCS	20x40	★	★★★	★★		
SP5121		HCS	Ø88	★	★★★	★★		
RASCHIETTI								
SP5002		INOX	52x29					

LAME AD OSCILLAZIONE

Ref. CELESA		QUALITÀ	DIMENSIONI L2 x L1	SPESSORE	DENTI	APPLICAZIONI
LAME DENTATE (METALLO)						
Ref. SP5106 Blister 1 u.: **11,47 €**		HSSCo 8%				
Ref. SP5112 Blister 1 u.: **11,86 €**		HSSCo 8%				
Ref. SPT5112 Blister 1 u.: **12,46 €**		HSSCo 8% TiN				
Ref. SP5116 Blister 1 u.: **9,92 €**		HSS				
Ref. SP5124 Blister 1 u.: **15,54 €**		HSS				
Ref. SP5125 Blister 1 u.: **17,74 €**		HSS				
LAME DENTATE (LEGNO)						
Ref. SP5110 Blister 1 u.: **8,52 €**		HCS				
Ref. SP5117 Blister 1 u.: **9,33 €**		HCS				
Ref. SP5127 Blister 1 u.: **9,49 €**		HCS				
LAME DENTATE (MULTIUSO)						
Ref. SP5107 Blister 1 u.: **7,91 €**		HCS				
Ref. SP5108 Blister 1 u.: **7,91 €**		HCS				
Ref. SP5113 Blister 1 u.: **8,96 €**		HCS				

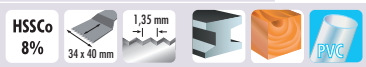
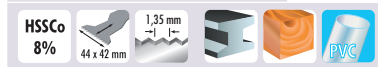
LAME AD OSCILLAZIONE

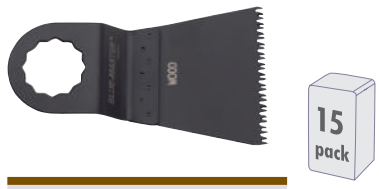
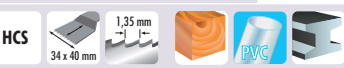
Ref. CELESA		QUALITÀ	DIMENSIONI L2 x L1	SPESSORE	DENTI	APPLICAZIONI
LAME DENTATE (MULTIUSO)						
Ref. SP5109 Blister 1 u.: **7,32 €**		HCS				
Ref. SP5121 Blister 1 u.: **12,70 €**		HCS				
RASCHIETTI						
Ref. SP5002 Blister 1 u.: **7,45 €**		INOX				



LAME AD OSCILLAZIONE IN QUADROPACK

ATTACCO SUPER CUT

			
REFERENZA	**SP5106-12** 41x41x90	**SP5112-15** 52x52x100	**SPT5112-15** 52x52x100
QUALITÀ / DIMENSIONI APPLICAZIONI			
Ref. LAMA x Unità	SP5106 (x12)	SP5112 (x15)	SPT5112 (x15)
P.V.P €	**123,84**	**160,17**	**168,07**

			
REFERENZA	**SP5110-12** 41x41x90	**SP5117-15** 71x71x114	**SP5108-12** 41x41x90
QUALITÀ / DIMENSIONI APPLICAZIONI			
Ref. LAMA x Unità	SP5110 (x12)	SP5117 (x15)	SP5108 (x12)
P.V.P €	**92,05**	**125,98**	**85,34**

BLUE-MASTER® by celesa



PUNTE PER LEGNO

PUNTA PER LEGNO A 2 TAGLIENTI CON PUNTA GUIDA A CENTRARE

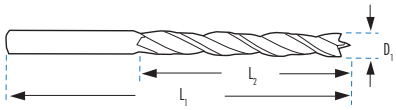
Ref. BM



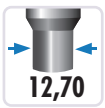
Serie Standard







				SERIE LUNGA 300 mm			SERIE EXTRA LUNGA 450 mm		
D1 mm		L1x L2 mm	€		L1x L2 mm	€		L1x L2 mm	€
3,0	BM03	59 x 35	1,16						
4,0	BM04	74 x 41	1,38						
5,0	BM05	82 x 55	1,49	BM05X300	300x160	5,47			
6,0	BM06	88 x 58	1,86	BM06X300	300x160	5,07			
7,0	BM07	110 x 70	2,06	BM07X300	300x160	6,25			
8,0	BM08	110 x 70	2,54	BM08X300	300x160	5,78	BM08X450	450x250	12,75
9,0	BM09	110 x 70	3,00	BM09X300	300x160	7,26	BM09X450	450x250	14,40
10,0	BM10	115 x 75	3,17	BM10X300	300x160	7,43	BM10X450	450x250	15,86
11,0	BM11	135 x 85	3,97	BM11X300	300x160	8,94	BM11X450	450x250	17,28
12,0	BM12	135 x 85	4,32	BM12X300	300x160	8,99	BM12X450	450x250	19,78
13,0	BM13*	135 x 90	4,57	BM13X300*	300x160	11,19	BM13X450*	450x250	22,20
14,0	BM14*	145 x 95	5,00	BM14X300*	300x160	12,35	BM14X450*	450x250	24,64
15,0	BM15*	160 x 95	5,90	BM15X300*	300x160	13,46			
16,0	BM16*	160 x 95	6,90	BM16X300*	300x160	16,02	BM16X450*	450x250	26,06
18,0	BM18*	160 x 100	11,08	BM18X300*	300x160	20,09	BM18X450*	450x250	31,79
20,0	BM20*	175 x 100	13,70	BM20X300*	300x160	22,37	BM20X450*	450x250	35,14
22,0	BM22*	209 x 140	18,55						

* 

Tutte le punte superiori a 13 mm hanno il codolo ridotto.







REFERENZA	BM9334	BM9335	BM9333
Nº PUNTE	5	5	8
QUALITÀ	SERIE STANDARD	SERIE STANDARD	SERIE STANDARD
CONTENUTO	Ø 4 - 5 - 6 - 8 - 10 mm	Ø 3 - 4 - 5 - 6 - 8 mm	Ø 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 mm
P.V.P. €	13,87	12,69	20,90

PUNTA PER LEGNO A 2 TAGLIENTI CON PUNTA GUIDA A CENTRARE PROFESSIONALE

Ref. BMPR

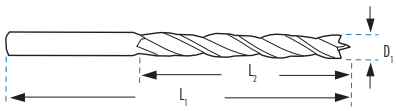
★★★★ HSS



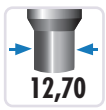


Serie Profesional





				SERIE LUNGA 245 mm			SERIE EXTRA LUNGA 400 mm		
D1 mm		L1x L2 mm	€		L1x L2 mm	€		L1x L2 mm	€
3,0	BMPR03	59 x 35	2,11						
4,0	BMPR04	74 x 41	2,29						
5,0	BMPR05	82 x 55	2,63						
6,0	BMPR06	88 x 58	3,48	BMPR06X245	245x160	11,92	BMPR06X400	400x160	28,12
7,0	BMPR07	110 x 70	4,02						
8,0	BMPR08	110 x 70	4,76	BMPR08X245	245x160	14,89	BMPR08X400	400x160	28,12
9,0	BMPR09	110 x 70	5,76						
10,0	BMPR10	115 x 75	6,25	BMPR10X245	245x160	17,85	BMPR10X400	400x160	33,61
11,0	BMPR11	135 x 85	7,38						
12,0	BMPR12	135 x 85	8,15	BMPR12X245	245x200	23,77	BMPR12X400	400x250	39,42
13,0	BMPR13*	135 x 90	8,70						
14,0	BMPR14*	145 x 95	9,53	BMPR14X245*	245x200	32,57	BMPR14X400*	400x250	53,28
15,0	BMPR15*	160 x 95	11,76						
16,0	BMPR16*	165 x 95	13,98	BMPR16X245*	245x200	43,44	BMPR16X400*	400x250	67,50
18,0	BMPR18*	160 x 100	19,22	BMPR18X245*	245x200	46,53	BMPR18X400*	400x250	88,82
20,0	BMPR20*	175 x 100	25,49						

* 

Tutte le punte superiori a 13 mm hanno il codolo ridotto.









REFERENZA	BMPR9334	BMPR9335	BMPR9336	BMPR9333
Nº PUNTE	5	5	7	8
QUALITÀ	SERIE PROFESSIONALE	SERIE PROFESSIONALE	SERIE PROFESSIONALE	SERIE PROFESSIONALE
CONTENUTO	Ø 4 - 5 - 6 - 8 - 10 mm	Ø 3 - 4 - 5 - 6 - 8 mm	Ø 3 -4 -5 -6 -7 -8 -10 mm	Ø 3 -4 -5 -6 -7 -8 -9 -10 mm
P.V.P. €	22,77	21,15	32,16	36,30

*Fino ad esaurimento scorte.

PUNTA PER LEGNO CV, TIPO "S"

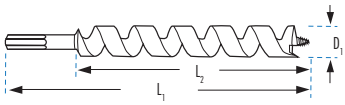
Ref. BM"S"

CV

Per Ø 6 - Codolo cilindrico
Ø Superiori - Codolo esagonale

Tipo S





		SERIE LUNGA		SERIE EXTRA LUNGA		
	230 mm			460 mm			650 mm		
D1 mm		L1x L2 mm	€		L1x L2 mm	€		L1x L2 mm	€
6,0	BM06X230	230x160	**16,30**	BM06X460	460x370	**21,27**	BM06X650	650x550	**27,77**
8,0	BM08X230	230x160	**16,93**	BM08X460	460x370	**21,78**	BM08X650	650x550	**27,97**
10,0	BM10X230	230x160	**16,93**	BM10X460	460x370	**23,69**	BM10X650	650x550	**33,12**
12,0	BM12X230	230x160	**19,76**	BM12X460	460x370	**25,68**	BM12X650	650x550	**33,38**
14,0	BM14X230	230x160	**20,60**	BM14X460	460x370	**31,42**	BM14X650	650x550	**47,90**
15,0	BM15X230	230x160	**26,86**						
16,0	BM16X230	230x160	**23,09**	BM16X460	460x370	**36,23**	BM16X650	650x550	**56,79**
17,0	BM17X230	230x160	**30,53**						
18,0	BM18X230	230x160	**25,98**	BM18X460	460x370	**46,69**	BM18X650	650x550	**83,90**
20,0	BM20X230	230x160	**28,30**	BM20X460	460x370	**52,31**	BM20X650	650x550	**96,73**
22,0	BM22X230	230x160	**30,91**	BM22X460	460x370	**57,56**	BM22X650	650x550	**107,15**
24,0	BM24X230	230x160	**35,02**	BM24X460	460x370	**63,07**	BM24X650	650x550	**113,61**
26,0	BM26X230	230x160	**39,65**	BM26X460	460x370	**68,55**	BM26X650	650x550	**118,55**
28,0	BM28X230	230x160	**45,40**	BM28X460	460x370	**74,28**	BM28X650	650x550	**121,50**
30,0	BM30X230	230x160	**52,31**	BM30X460	460x370	**81,47**	BM30X650	650x550	**126,86**
32,0	BM32X230	230x160	**61,79**	BM32X460	460x370	**90,51**	BM32X650	650x550	**133,33**
34,0	BM34X230	230x160	**85,44**	BM34X460	460x370	**109,10**	BM34X650	650x550	**137,70**
36,0	BM36X230	230x160	**100,83**	BM36X460	460x370	**122,94**	BM36X650	650x550	**149,91**
38,0	BM38X230	230x160	**115,70**	BM38X460	460x370	**138,52**	BM38X650	650x550	**163,97**

SCATOLA IN LEGNO PUNTE CV TIPO "S"



Ref. BM9440

230 mm

REFERENZA	BM9440	BM9441	BM9442	BM9443
Nº PUNTE	5	5	4	5
QUALITÀ	SERIE STANDARD	SERIE STANDARD	SERIE STANDARD	SERIE STANDARD
CONTENUTO	Ø 6 - 8 - 10 - 12 - 14 mm	Ø 12 - 14 - 16 - 18 - 20 mm	Ø 8 - 10 - 12 - 14 mm	Ø 8 -12 -20 -25 -30 mm
P.V.P. €	**107,58**	**132,13**	**92,90**	**178,50**

460 mm

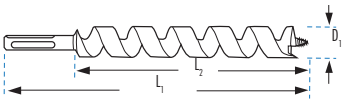
REFERENZA	BM9540	BM9541	BM9542	BM9543
Nº PUNTE	5	5	4	5
QUALITÀ	SERIE STANDARD	SERIE STANDARD	SERIE STANDARD	SERIE STANDARD
CONTENUTO	Ø 6 - 8 - 10 - 12 - 14 mm	Ø 12 - 14 - 16 - 18 - 20 mm	Ø 8 - 10 - 12 - 14 mm	Ø 8 -12 -20 -25 -30 mm
P.V.P. €	**186,09**	**240,14**	**165,51**	**336,80**

PUNTA PER LEGNO CV, TIPO "S"

Ref. BMSDS

SDS Plus | ★★★ | CV | Tipo S





		SERIE LUNGA		SERIE EXTRA LUNGA		
	230 mm			460 mm			650 mm		
D1 mm		L1x L2 mm	€		L1x L2 mm	€		L1x L2 mm	€
6,0	BMSDS06X230	230x160	24,43	BMSDS06X460	460x370	31,91	BMSDS06X650	650x550	41,67
8,0	BMSDS08X230	230x160	25,41	BMSDS08X460	460x370	32,64	BMSDS08X650	650x550	41,98
10,0	BMSDS10X230	230x160	25,41	BMSDS10X460	460x370	35,51	BMSDS10X650	650x550	49,65
12,0	BMSDS12X230	230x160	29,64	BMSDS12X460	460x370	38,51	BMSDS12X650	650x550	50,06
14,0	BMSDS14X230	230x160	30,91	BMSDS14X460	460x370	47,13	BMSDS14X650	650x550	71,85
16,0	BMSDS16X230	230x160	34,63	BMSDS16X460	460x370	54,32	BMSDS16X650	650x550	85,18
18,0	BMSDS18X230	230x160	38,97	BMSDS18X460	460x370	70,04	BMSDS18X650	650x550	125,83
20,0	BMSDS20X230	230x160	42,46	BMSDS20X460	460x370	78,47	BMSDS20X650	650x550	145,08
22,0	BMSDS22X230	230x160	46,38	BMSDS22X460	460x370	86,34	BMSDS22X650	650x550	160,70
24,0	BMSDS24X230	230x160	52,52	BMSDS24X460	460x370	94,63	BMSDS24X650	650x550	170,42
25,0	BMSDS25X230	230x160	59,45	BMSDS25X460	460x370	102,83			
26,0	BMSDS26X230	230x160	59,45	BMSDS26X460	460x370	102,83	BMSDS26X650	650x550	177,82
28,0	BMSDS28X230	230x160	68,09	BMSDS28X460	460x370	111,42	BMSDS28X650	650x550	182,26
30,0	BMSDS30X230	230x160	78,47	BMSDS30X460	460x370	122,20	BMSDS30X650	650x550	190,29
32,0	BMSDS32X230	230x160	115,22	BMSDS32X460	460x370	135,78	BMSDS32X650	650x550	199,98
34,0	BMSDS34X230	230x160	129,65	BMSDS34X460	460x370	163,64	BMSDS34X650	650x550	206,54
36,0	BMSDS36X230	230x160	151,23	BMSDS36X460	460x370	184,41	BMSDS36X650	650x550	224,85
38,0	BMSDS38X230	230x160	175,50	BMSDS38X460	460x370	207,75	BMSDS38X650	650x550	245,93

PUNTA PER LEGNO IN METALLO DURO, TIPO "S"

Ref. BMMD

Tipo S | ★★★ | MD

Geometria con inserto in metallo duro.
Ideale per legni molto duri.





	SERIE STANDARD 230 mm				SERIE LUNGA 460 mm		
D1 mm		L1x L2 mm	€	D1 mm		L1x L2 mm	€
12,0	BMMD12X230	230x160	47,96	18,0	BMMD18X460	460x370	131,66
14,0	BMMD14X230	230x160	56,37	20,0	BMMD20X460	460x370	140,13
15,0	BMMD15X230	230x160	56,62	22,0	BMMD22X460	460x370	151,48
16,0	BMMD16X230	230x160	56,62	24,0	BMMD24X460	460x370	165,33
17,0	BMMD17X230	230x160	60,17	26,0	BMMD26X460	460x370	187,18
20,0	BMMD20X230	230x160	74,59	28,0	BMMD28X460	460x370	199,56
22,0	BMMD22X230	230x160	80,67	30,0	BMMD30X460	460x370	204,53
24,0	BMMD24X230	230x160	91,00	32,0	BMMD32X460	460x370	258,00
26,0	BMMD26X230	230x160	117,55				
28,0	BMMD28X230	230x160	128,70				
30,0	BMMD30X230	230x160	136,23				
32,0	BMMD32X230	230x160	198,47				

PUNTA PER LEGNO CON DOPPIO CANALE

Ref. BM2P





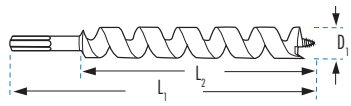
	BM2P		
	D1 mm	L1x L2 mm	€
BM2P06X230	6,0	230 x 160	**25,05**
BM2P08X230	8,0	230 x 160	**25,05**
BM2P10X230	10,0	230 x 160	**25,05**
BM2P12X230	12,0	230 x 160	**29,23**
BM2P14X230	14,0	230 x 160	**30,50**
BM2P15X230	15,0	230 x 160	**37,58**
BM2P16X230	16,0	230 x 160	**34,16**
BM2P17X230	17,0	230 x 160	**42,72**
BM2P18X230	18,0	230 x 160	**38,81**
BM2P20X230	20,0	230 x 160	**42,27**
BM2P22X230	22,0	230 x 160	**46,20**
BM2P24X230	24,0	230 x 160	**52,32**
BM2P26X230	26,0	230 x 160	**59,21**
BM2P28X230	28,0	230 x 160	**67,83**
BM2P30X230	30,0	230 x 160	**78,15**
BM2P32X230	32,0	230 x 160	**114,75**
BM2P34X230	34,0	230 x 160	**123,15**
BM2P36X230	36,0	230 x 160	**143,65**
BM2P38X230	38,0	230 x 160	**166,71**

PUNTA PER LEGNO, TIPO "S"

Ref. BMC



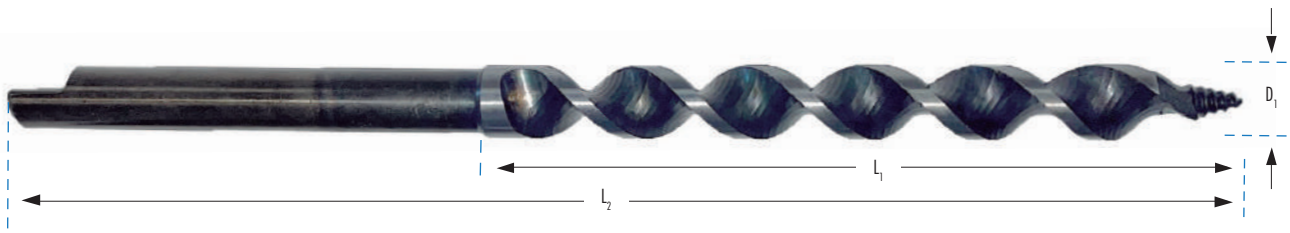




	BMC		
	D1 mm	L1x L2 mm	€
BMC06X230	6,0	230 x 160	**27,02** *
BMC08X230	8,0	230 x 160	**27,02** *
BMC10X230	10,0	230 x 160	**27,02** *
BMC14X230	14,0	230 x 160	**32,88** *
BMC15X230	15,0	230 x 160	**40,52** *
BMC16X230	16,0	230 x 160	**36,82** *
BMC17X230	17,0	230 x 160	**46,05** *
BMC18X230	18,0	230 x 160	**41,86** *
BMC20X230	20,0	230 x 160	**45,57** *
BMC22X230	22,0	230 x 160	**49,79** *
BMC24X230	24,0	230 x 160	**56,40** *
BMC26X230	26,0	230 x 160	**63,86** *
BMC28X230	28,0	230 x 160	**73,13** *
BMC30X230	30,0	230 x 160	**84,26** *
BMC32X230	32,0	230 x 160	**123,72** *
BMC34X230	34,0	230 x 160	**132,75** *
BMC36X230	36,0	230 x 160	**154,88** *
BMC38X230	38,0	230 x 160	**179,76** *

*Fino ad esaurimento scorte

PUNTA DA TRAPANO PER LA FORATURA DI TRAVERSE FERROVIARIE



NEW

Vengono prodotte punte speciali per macchine:

- CEMBRE
- ROBELLO
- GRAFFENSTADEN

D1 mm	L1x L2 mm
14,0	180 x 300
16,0	180 x 300
18,0	180 x 300

- Su richiesta



PUNTA PER LEGNO CV, TIPO "S" CON ATTACCO ESAGONALE 1/4"



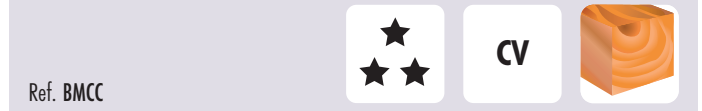
Ref. **BMH**



	D1 mm	⬡	L1x L2 mm	BMH €
BMH03X100	3,0	1/4"	100 x 50	**19,79** *
BMH04X100	4,0	1/4"	100 x 50	**19,23** *
BMH05X105	5,0	1/4"	105 x 55	**18,48** *
BMH06X105	6,0	1/4"	105 x 55	**16,79** *
BMH07X105	7,0	1/4"	105 x 55	**16,98** *
BMH08X105	8,0	1/4"	105 x 55	**17,64** *
BMH09X110	9,0	1/4"	110 x 60	**18,02** *
BMH10X110	10,0	1/4"	110 x 60	**18,11** *
BMH12X110	12,0	1/4"	110 x 60	**20,02** *
BMH13X110	13,0	1/4"	110 x 60	**22,29** *
BMH14X110	14,0	1/4"	110 x 60	**24,20** *
BMH15X110	15,0	1/4"	110 x 60	**25,74** *
BMH16X115	16,0	1/4"	115 x 65	**27,45** *
BMH17X115	17,0	1/4"	115 x 65	**28,22** *
BMH19X120	19,0	1/4"	120 x 70	**31,07** *
BMH22X120	22,0	3/8"	120 x 70	**35,64** *
BMH23X120	23,0	3/8"	120 x 70	**37,94** *
BMH24X120	24,0	3/8"	120 x 70	**39,46** *
BMH26X130	26,0	3/8"	130 x 80	**44,82** *
BMH27X130	27,0	3/8"	130 x 80	**46,73** *
BMH28X130	28,0	3/8"	130 x 80	**50,34** *
BMH29X130	29,0	3/8"	130 x 80	**53,40** *
BMH30X130	30,0	3/8"	130 x 80	**55,87** *
BMH33X140	33,0	3/8"	140 x 90	**65,98** *
BMH36X140	36,0	3/8"	140 x 90	**74,01** *

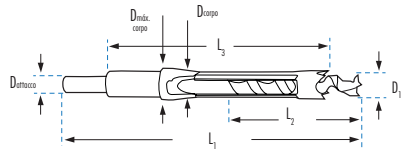
*Fino ad esaurimento scorte

PUNTA PER FORI QUADRATI NEL LEGNO



Ref. **BMCC**





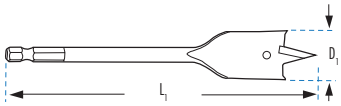
	D1 mm	L1x L2 mm	L3 mm	D attacco mm	D corpo mm	D máx.corpo mm	BMCC €
BMCC05	5,0	210 x 50	110	3,35	19,00	20,00	**44,74**
BMCC06	6,0	210 x 50	110	4,50	19,00	20,50	**44,74**
BMCC07	7,0	210 x 50	110	5,00	19,00	20,50	**44,74**
BMCC08	8,0	210 x 50	110	5,80	19,00	20,50	**44,74**
BMCC09	9,0	210 x 60	140	6,40	19,00	20,50	**44,74**
BMCC10	10,0	210 x 80	140	6,75	19,00	20,50	**44,74**
BMCC12	12,0	210 x 80	140	9,25	19,00	20,50	**46,07**
BMCC13	13,0	210 x 80	140	9,75	19,00	20,50	**46,07**
BMCC14	14,0	210 x 80	140	10,00	19,00	20,50	**57,82**
BMCC16	16,0	218 x 100	160	12,00	19,00	23,50	**65,95**
BMCC18	18,0	218 x 100	160	12,00	19,00	26,50	**84,51**
BMCC22	22,0	218 x 100	160	12,00	19,00	32,00	**113,47**



MECCHIA PIATTA PER LEGNO, CODOLO ESAGONALE 1/4"

Ref. BMP/BMPL

CV | 1/4" | Esagonale 1/4"







	BMP		
	D1 mm	L1 mm	€
BMP06	6,0	150	3,11
BMP08	8,0	150	3,32
BMP10	10,0	150	3,57
BMP12	12,0	150	3,81
BMP13	13,0	150	4,39
BMP14	14,0	150	4,11
BMP15	15,0	150	4,71
BMP16	16,0	150	4,50
BMP17	17,0	150	5,10
BMP18	18,0	150	4,79
BMP19	19,0	150	5,23
BMP20	20,0	150	5,17
BMP22	22,0	150	5,83
BMP24	24,0	150	6,15
BMP25	25,0	150	7,16
BMP26	26,0	150	6,30
BMP28	28,0	150	6,58
BMP30	30,0	150	6,74
BMP32	32,0	150	7,19
BMP34	34,0	150	7,86
BMP35	35,0	150	8,17
BMP36	36,0	150	8,61
BMP38	38,0	150	9,93
BMP40	40,0	150	11,39



	BMPX400		
	D1 mm	L1 mm	€
BMP06X400	6,0	400	12,48
BMP08X400	8,0	400	12,48
BMP10X400	10,0	400	13,07
BMP12X400	12,0	400	14,45
BMP13X400	13,0	400	12,85
BMP14X400	14,0	400	12,42
BMP16X400	16,0	400	13,64
BMP17X400	17,0	400	14,50
BMP18X400	18,0	400	15,37
BMP19X400	19,0	400	15,38
BMP20X400	20,0	400	15,37
BMP22X400	22,0	400	17,80
BMP24X400	24,0	400	19,10
BMP25X400	25,0	400	21,77
BMP26X400	26,0	400	23,13
BMP28X400	28,0	400	24,50
BMP30X400	30,0	400	25,85
BMP32X400	32,0	400	27,76
BMP35X400	35,0	400	31,17
BMP36X400	36,0	400	34,95
BMP38X400	38,0	400	36,75
BMP40X400	40,0	400	37,26



FRESA PER TASELLI

Ref. TM

CV





	TM			
	D1 mm	D2 mm	L mm	€
TM0800	8,0	11	140	47,81
TM1000	10,0	11	140	51,20
TM1200	12,0	13	140	60,44
TM1500	15,0	13	140	79,73
TM1600	16,0	13	140	81,12
TM2000	20,0	13	140	92,11
TM2200	22,0	13	140	101,08
TM2500	25,0	13	140	111,05
TM2600	26,0	13	140	113,04
TM3000	30,0	13	140	125,01
TM3500	35,0	16	160	138,98
TM4000	40,0	16	160	159,29

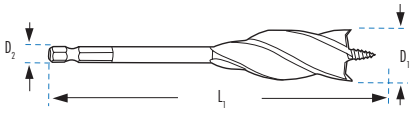
PUNTA ELICOIDALE PER LEGNO A 4 TAGLIENTI CON ATTACCO ESAGONALE 1/4"

Ref. BM4P

HSS



Fino a Ø26 - Codolo esagonale 1/4"
Ø Superiori - Codolo esagonale 11 mm









TAGLIO PULITO
FACILE PENETRAZIONE
GRANDE PRECISIONE DEI FORI

	D1 mm	⬡	D2 mm	L1 mm	BM4P €
BM4P10	10,0	1/4"	6,35	165	**16,84**
BM4P11	11,0	1/4"	6,35	165	**17,45**
BM4P12	12,0	1/4"	6,35	165	**16,67**
BM4P13	13,0	1/4"	6,35	165	**20,63**
BM4P15	15,0	1/4"	6,35	165	**20,63**
BM4P16	16,0	1/4"	6,35	165	**21,70**
BM4P18	18,0	1/4"	6,35	165	**23,10**
BM4P19	19,0	1/4"	6,35	165	**25,38**
BM4P20	20,0	1/4"	6,35	165	**27,23**
BM4P21	21,0	1/4"	6,35	165	**31,55**
BM4P22	22,0	1/4"	6,35	165	**29,73**
BM4P24	24,0	1/4"	6,35	165	**39,31**
BM4P25	25,0	1/4"	6,35	165	**33,75**
BM4P26	26,0	1/4"	6,35	165	**43,72**
BM4P28	28,0	7/16"	11,11	165	**45,64**
BM4P30	30,0	7/16"	11,11	165	**47,24**
BM4P32	32,0	7/16"	11,11	165	**43,21**
BM4P35	35,0	7/16"	11,11	165	**50,41**
BM4P38	38,0	7/16"	11,11	165	**54,83**
BM4P40	40,0	7/16"	11,11	165	**59,58**



PROLUNGHE PER CODOLI DI 6,35 MM ESAGONALE 1/4"





	DESCRIZIONE	AM €
AMC60	Prolunga m/esagonale, Lt 150 mm	**8,99**
AMC60AR	Prolunga m/esagonale, attacco rapido, Lt 150 mm	**19,37**
AMC300	Prolunga m/esagonale, Lt 300 mm	**15,55**
AMSDS60	Prolunga m/SDS-PLUS, Lt 60 mm	**15,70**
AMSDS60AR	Prolunga m/SDS-PLUS, attacco rapido, Lt 60 mm	**31,42**
AMSDS300	Prolunga m/SDS-PLUS, Lt 300 mm	**24,45**
AMSDS300AR	Prolunga m/SDS-PLUS, attacco rapido, Lt 300 mm	**35,44**

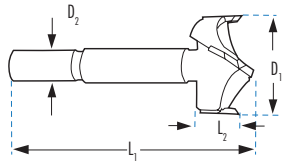
FRESE PER CERNIERE DENTI IN METALLO DURO

Ref. BB
Ref. BMF

MD

Fino a Ø 65 - Codolo cilindrico
Ø Superiori - Codolo esagonale









BB

	D1 mm	D2 mm	L1x L2 mm	€
*BB12B	12,0	8	90 x 15	**33,36**
*BB15B	15,0	8	90 x 15	**34,78**
*BB16B	16,0	8	90 x 15	**35,25**
*BB18B	18,0	8	90 x 15	**37,36**
*BB20B	20,0	8	90 x 15	**37,33**
*BB25B	25,0	8	90 x 15	**45,22**
*BB26B	26,0	8	90 x 15	**44,80**
*BB30B	30,0	8	90 x 15	**49,16**
*BB32B	32,0	10	90 x 15	**58,32**
*BB35B	35,0	10	90 x 15	**56,14**
*BB40B	40,0	10	90 x 15	**64,37**
BB50	50,0	10	90 x 15	**69,68**
BB55	55,0	10	90 x 15	**93,64**
BB60	60,0	12	90 x 15	**101,83**
BB65	65,0	12	90 x 15	**114,40**
BB70	70,0	12	90 x 15	**126,86**
BB75	75,0	12	90 x 15	**135,93**
BB80	80,0	12	90 x 15	**152,01**
BB85	85,0	12	90 x 15	**165,70**
BB90	90,0	12	90 x 15	**192,74**

* Utensile in blister



BMF

	D1 mm	D2 mm	L1 mm	€
BMF16	16,0	13	140	**44,81**
BMF18	18,0	13	140	**47,20**
BMF20	20,0	13	140	**53,78**
BMF22	22,0	13	140	**57,35**
BMF24	24,0	13	140	**63,03**
BMF25	25,0	13	140	**66,32**
BMF26	26,0	13	140	**67,07**
BMF28	28,0	13	140	**67,07**
BMF30	30,0	13	140	**62,70**
BMF35	35,0	13	140	**69,18**
BMF40	40,0	13	140	**82,59**
BMF42	42,0	13	140	**74,64**
BMF45	45,0	13	140	**79,84**
BMF50	50,0	13	140	**88,75**
BMF55	55,0	9	210	**125,04**
BMF60	60,0	9	210	**136,47**
BMF65	65,0	9	210	**149,61**
BMF70	70,0	9	210	**161,04**
BMF75	75,0	9	210	**187,81**
BMF80	80,0	9	210	**200,32**
BMF85	85,0	9	210	**212,84**
BMF90	90,0	9	210	**254,12**

FRESE TIPO "FORSTNER" PER LEGNO

Ref. BMF1

CV

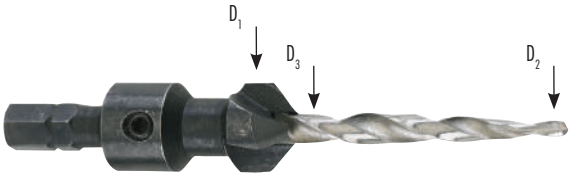


BMF1

	D1 mm	D2 mm	L1 mm	€
BMF106	6,0	8,0	90	**12,36**
BMF108	8,0	8,0	90	**12,36**
BMF110	10,0	8,0	90	**12,87**
BMF111	11,0	8,0	90	**13,41**
BMF112	12,0	8,0	90	**13,92**
BMF113	13,0	8,0	90	**14,24**
BMF114	14,0	8,0	90	**14,61**
BMF115	15,0	8,0	90	**14,61**
BMF116	16,0	8,0	90	**15,30**
BMF118	18,0	8,0	90	**18,57**
BMF119	19,0	8,0	90	**19,86**
BMF120	20,0	8,0	90	**17,30**
BMF121	21,0	8,0	90	**20,33**
BMF122	22,0	8,0	90	**19,51**
BMF124	24,0	8,0	90	**19,94**
BMF125	25,0	8,0	90	**20,49**
BMF126	26,0	8,0	90	**21,99**
BMF127	27,0	8,0	90	**22,43**
BMF128	28,0	8,0	90	**19,30**
BMF130	30,0	8,0	90	**19,30**
BMF132	32,0	10,0	90	**23,49**
BMF134	34,0	10,0	90	**24,83**
BMF135	35.0	10,0	90	**26,66**
BMF136	36,0	10,0	90	**27,55**
BMF138	38,0	10,0	90	**29,37**
BMF140	40,0	10,0	90	**29,82**
BMF141	41,0	10,0	90	**31,64**
BMF143	43,0	10,0	90	**32,96**
BMF144	44,0	10,0	90	**34,79**
BMF145	45,0	10,0	90	**34,57**
BMF146	46,0	10,0	90	**36,58**
BMF148	48,0	10,0	90	**38,83**
BMF149	49,0	10,0	90	**40,17**
BMF150	50,0	10,0	90	**38,17**
BMF151	51,0	10,0	90	**41,55**
BMF152	52,0	10,0	90	**43,37**
BMF154	54,0	10,0	90	**45,16**
BMF157	57,0	12,5	159	**65,04**
BMF160	60,0	12,5	159	**69,10**
BMF163	63,0	12,5	159	**74,10**
BMF166	66,0	12,5	159	**81,26**
BMF170	70,0	12,5	159	**90,78**
BMF173	73,0	12,5	159	**99,80**
BMF176	76,0	12,5	159	**108,83**
BMF179	79,0	12,5	159	**126,45**
BMF183	83,0	12,5	159	**142,71**
BMF186	86,0	12,5	159	**161,24**
BMF189	89,0	12,5	159	**147,82**

PUNTA PER ASSEMBLAGGIO DI VITI NEL LEGNO A CODOLO ESAGONALE

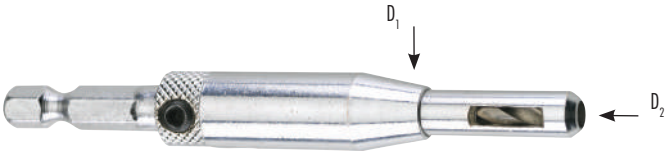
Ref. **BM3**



	D1 mm	D2 mm	D3 mm	BM3 €
BM306	6,0	1,5	3,0	**20,53**
BM308	8,0	2,0	3,5	**20,53**
BM310	10,0	2,5	4,0	**20,53**
BM312	12,0	2,5	4,0	**20,53**

PUNTA PER INSTALLAZIONE DI SERRATURE E CERNIERE NEL LEGNO, CODOLO ESAGONALE

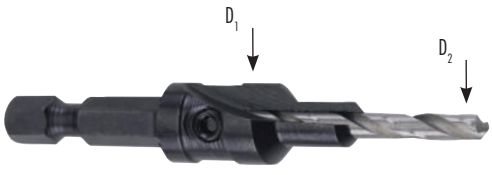
Ref. **BM4**



	D1 mm	D2 mm	BM4 €
BM406	6,0	2,0	**15,80**
BM408	8,0	2,7	**15,80**
BM410	10,0	3,5	**15,80**
BM412	12,0	4,5	**15,80**

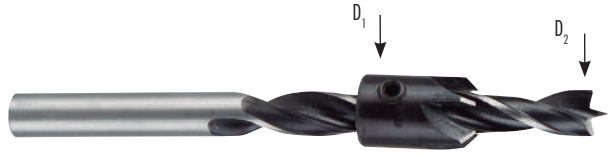
PUNTA CV PER LEGNO A SVASARE CODOLO CILINDRICO E CODOLO ESAGONALE

Ref. **BM5**



	D1 mm	D2 mm	BM5 €
BM506	6,0	2,3	**29,07**
BM508	8,0	2,7	**29,07**
BM510	10,0	3,1	**29,07**
BM512	12,0	3,5	**29,07**

Ref. **BM6**



	D1 mm	D2 mm	BM6 €
BM603	16,0	3,0	**7,00**
BM604	16,0	4,0	**7,31**
BM605	16,0	5,0	**8,23**
BM606	16,0	6,0	**8,44**
BM607	16,0	7,0	**8,97**

	D1 mm	D2 mm	BM6 €
BM608	16,0	8,0	**9,01**
BM609	16,0	9,0	**9,49**
BM610	16,0	10,0	**9,63**
BM611	20,0	11,0	**18,45**
BM612	20,0	12,0	**20,38**

PUNTA PER LEGNO REGOLABILE CV

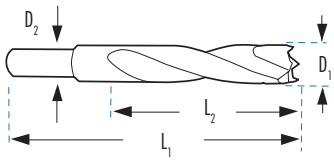
Ref. BME



	CAPACITÀ	BME €
BME 15/45	15-45	49,71
BME 25/75	25-75	63,91

PUNTA PER LEGNO IN METALLO DURO A 2 TAGLIENTI CON PUNTA GUIDA A CENTRARE

Ref. BMMD





	D1 mm	D2 mm	L1x L2 mm	BMMD €
BMMD03	3,0	3,0	75 x 35	8,44
BMMD04	4,0	4,0	75 x 35	9,00
BMMD05	5,0	4,0	86 x 52	9,44
BMMD06	6,0	5,0	98 x 57	9,56
BMMD07	7,0	6,0	100 x 60	10,08
BMMD08	8,0	7,0	102 x 63	10,34
BMMD09	9,0	8,0	102 x 63	12,16
BMMD10	10,0	9,0	102 x 63	13,62
BMMD11	11,0	10,0	110 x 63	15,30
BMMD12	12,0	11,5	110 x 63	18,88
BMMD13	13,0	11,5	110 x 63	21,35
BMMD14	14,0	12,7	110 x 63	32,82
BMMD15	15,0	12,7	110 x 63	42,08
BMMD16	16,0	12,7	110 x 63	50,20
BMMD18	18,0	12,7	140 x 63	61,89
BMMD20	20,0	12,7	140 x 63	70,49
BMMD22	22,0	12,7	140 x 63	74,61
BMMD24	24,0	12,7	170 x 63	97,56
BMMD25	25,0	12,7	170 x 63	116,34
BMMD26	26,0	12,7	170 x 63	138,37
BMMD28	28,0	12,7	170 x 63	151,32
BMMD30	30,0	12,7	170 x 63	178,78

SVASATORI PER LEGNO



Ref. AV26

	D1 mm	D2 mm	AV25 €
AV250312	3,0	12	10,01
AV250412	4,0	12	10,01
AV250512	5,0	12	10,01
AV250612	6,0	12	10,01

			AV26
AV260316	3,0	16	13,45
AV260416	4,0	16	13,45
AV260516	5,0	16	13,45
AV260616	6,0	16	13,45
AV260816	8,0	16	13,45

COLLARE DI ARRESTO PROFONDITÀ PER PUNTE A CODOLO CILINDRICO



Ref. TOPE

	D1 mm	TOPE €
TOPE03	3,0	4,71
TOPE04	4,0	5,28
TOPE05	5,0	5,76
TOPE06	6,0	6,45
TOPE08	8,0	6,87
TOPE10	10,0	7,27
TOPE12	12,0	13,55

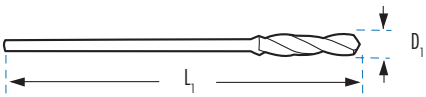
PUNTE PER CASSEFORME IN LEGNO DIN 7490 CODOLO CILINDRICO CV

Ref. **BE**

★★★ | **CV** | **DIN 7490**



Codolo filettato al corpo della punta





Ref. **BE06X400**



Ref. **BE06X600**



Ref. **BE06X800**



Ref. **BE06X1000**

LUNGHEZZA TOTALE 400 mm

	D1 mm	L1 mm	BE €
BE06X400	6,0	400	**17,85**
BE08X400	8,0	400	**18,42**
BE10X400	10,0	400	**21,93**
BE12X400	12,0	400	**28,41**
BE14X400	14,0	400	**31,44**
BE16X400	16,0	400	**36,58**
BE18X400	18,0	400	**44,72**
BE20X400	20,0	400	**60,35**
BE22X400	22,0	400	**80,60**
BE24X400	24,0	400	**91,79**
BE26X400	26,0	400	**103,87**
BE28X400	28,0	400	**113,21**
BE30X400	30,0	400	**119,44**

LUNGHEZZA TOTALE 600 mm

	D1 mm	L1 mm	BE €
BE06X600	6,0	600	**19,70**
BE08X600	8,0	600	**19,90**
BE10X600	10,0	600	**22,80**
BE12X600	12,0	600	**29,81**
BE14X600	14,0	600	**32,57**
BE16X600	16,0	600	**37,72**
BE18X600	18,0	600	**45,87**
BE20X600	20,0	600	**61,27**
BE22X600	22,0	600	**81,74**
BE24X600	24,0	600	**95,69**
BE26X600	26,0	600	**105,27**
BE28X600	28,0	600	**114,59**
BE30X600	30,0	600	**121,39**

LUNGHEZZA TOTALE 800 mm

	D1 mm	L1 mm	BE €
BE06X800	6,0	800	**23,46**
BE08X800	8,0	800	**26,54**
BE10X800	10,0	800	**29,53**
BE12X800	12,0	800	**36,06**
BE14X800	14,0	800	**41,31**
BE16X800	16,0	800	**48,27**
BE18X800	18,0	800	**57,46**
BE20X800	20,0	800	**72,72**
BE22X800	22,0	800	**94,85**
BE24X800	24,0	800	**108,69**
BE26X800	26,0	800	**118,16**
BE28X800	28,0	800	**127,39**
BE30X800	30,0	800	**133,63**

LUNGHEZZA TOTALE 1000 mm

	D1 mm	L1 mm	BE €
BE06X1000	6,0	1000	**26,59**
BE08X1000	8,0	1000	**27,68**
BE10X1000	10,0	1000	**31,20**
BE12X1000	12,0	1000	**37,62**
BE14X1000	14,0	1000	**42,92**
BE16X1000	16,0	1000	**61,14**
BE18X1000	18,0	1000	**61,14**
BE20X1000	20,0	1000	**76,38**
BE22X1000	22,0	1000	**98,76**
BE24X1000	24,0	1000	**112,84**
BE26X1000	26,0	1000	**121,81**
BE28X1000	28,0	1000	**127,53**
BE30X1000	30,0	1000	**137,56**

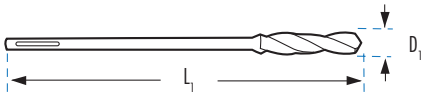
PUNTE PER CASSEFORME IN LEGNO CODOLO SDS PLUS

Ref. BESDS

SDS Plus | ★★ | CV | DIN 7490



Codolo filettato al corpo della punta







Ref. BESDS06X400



Ref. BESDS06X600



Ref. BESDS06X800



Ref. BESDS06X1000

LUNGHEZZA TOTALE 400 mm			BESDS
	D1 mm	L1 mm	€
BESDS06X400	6,0	400	**33,06**
BESDS08X400	8,0	400	**34,09**
BESDS10X400	10,0	400	**32,84**
BESDS12X400	12,0	400	**33,24**
BESDS14X400	14,0	400	**38,34**
BESDS16X400	16,0	400	**42,55**
BESDS18X400	18,0	400	**56,86**
BESDS20X400	20,0	400	**68,89**
BESDS22X400	22,0	400	**87,99**
BESDS24X400	24,0	400	**130,46**
BESDS26X400	26,0	400	**149,50**
BESDS28X400	28,0	400	**161,99**
BESDS30X400	30,0	400	**183,20**

LUNGHEZZA TOTALE 600 mm			BESDS
	D1 mm	L1 mm	€
BESDS06X600	6,0	600	**34,05**
BESDS08X600	8,0	600	**36,60**
BESDS10X600	10,0	600	**34,02**
BESDS12X600	12,0	600	**34,82**
BESDS14X600	14,0	600	**40,13**
BESDS16X600	16,0	600	**43,74**
BESDS18X600	18,0	600	**60,88**
BESDS20X600	20,0	600	**71,16**
BESDS22X600	22,0	600	**91,39**
BESDS24X600	24,0	600	**150,12**
BESDS26X600	26,0	600	**164,37**
BESDS28X600	28,0	600	**184,57**
BESDS30X600	30,0	600	**207,23**

LUNGHEZZA TOTALE 800 mm			BESDS
	D1 mm	L1 mm	€
BESDS06X800	6,0	800	**35,22**
BESDS08X800	8,0	800	**37,60**
BESDS10X800	10,0	800	**37,84**
BESDS12X800	12,0	800	**38,17**
BESDS14X800	14,0	800	**50,63**
BESDS16X800	16,0	800	**54,89**
BESDS18X800	18,0	800	**75,00**
BESDS20X800	20,0	800	**86,40**
BESDS22X800	22,0	800	**103,46**
BESDS24X800	24,0	800	**175,95**
BESDS26X800	26,0	800	**180,69**
BESDS28X800	28,0	800	**210,30**
BESDS30X800	30,0	800	**234,38**

LUNGHEZZA TOTALE 1000 mm			BESDS
	D1 mm	L1 mm	€
BESDS06X1000	6,0	1000	**36,26**
BESDS08X1000	8,0	1000	**38,69**
BESDS10X1000	10,0	1000	**39,09**
BESDS12X1000	12,0	1000	**39,52**
BESDS14X1000	14,0	1000	**58,95**
BESDS16X1000	16,0	1000	**62,97**
BESDS18X1000	18,0	1000	**84,84**
BESDS20X1000	20,0	1000	**97,30**
BESDS22X1000	22,0	1000	**108,03**
BESDS24X1000	24,0	1000	**202,43**
BESDS26X1000	26,0	1000	**204,92**
BESDS28X1000	28,0	1000	**239,62**
BESDS30X1000	30,0	1000	**265,11**

BLUE-MASTER® by celesa



INSERTI PER AVVITATORE

INSERTI INTERCAMBIABILI PER AVVITATORE

Plus ★★ 25mm LUNG. TOTALE (L_1)



PHILLIPS



€ x Inserto		2 U.		5 U.		50 U.		100 U.	
	L1 mm		€		€		€		€
Ph 0	25	Ph0-2	**1,63**	Ph0-5	**1,44**	Ph0-50	**1,28**	Ph0-100	**1,22**
Ph 1	25	Ph1-2	**1,38**	Ph1-5	**0,85**	Ph1-50	**0,77**	Ph1-100	**0,72**
Ph 2	25	Ph2-2	**1,38**	Ph2-5	**0,85**	Ph2-50	**0,77**	Ph2-100	**0,72**
Ph 3	25	Ph3-2	**1,38**	Ph3-5	**0,85**	Ph3-50	**0,77**	Ph3-100	**0,72**

POZIDRIV



€ x Inserto		2 U.		5 U.		50 U.		100 U.	
	L1 mm		€		€		€		€
Pz 0	25	Pz0-2	**1,63**	Pz0-5	**1,44**	Pz0-50	**1,28**	Pz0-100	**1,22**
Pz 1	25	Pz1-2	**1,38**	Pz1-5	**0,85**	Pz1-50	**0,77**	Pz1-100	**0,72**
Pz 2	25	Pz2-2	**1,38**	Pz2-5	**0,85**	Pz2-50	**0,77**	Pz2-100	**0,72**
Pz 3	25	Pz3-2	**1,38**	Pz3-5	**0,85**	Pz3-50	**0,77**	Pz3-100	**0,72**

TESTA PIATTA



€ x Inserto		2 U.		5 U.		50 U.		100 U.	
	L1 mm		€		€		€		€
0,5X3,0	25	P0,5X3,0-2	**1,85**	P0,5X3,0-5	**1,60**	P0,5X3,0-50	**1,45**	P0,5X3,0-100	**1,37**
0,6X3,5	25	P0,6X3,5-2	**1,85**	P0,6X3,5-5	**1,60**	P0,6X3,5-50	**1,45**	P0,6X3,5-100	**1,37**
0,5X4,0	25	P0,5X4,0-2	**1,85**	P0,5X4,0-5	**1,60**	P0,5X4,0-50	**1,45**	P0,5X4,0-100	**1,37**
0,6X4,5	25	P0,6X4,5-2	**1,85**	P0,6X4,5-5	**1,60**	P0,6X4,5-50	**1,45**	P0,6X4,5-100	**1,37**
0,8X4,0	25	P0,8X4,0-2	**1,85**	P0,8X4,0-5	**1,60**	P0,8X4,0-50	**1,45**	P0,8X4,0-100	**1,37**
0,8X5,0	25	P0,8X5,0-2	**1,85**	P0,8X5,0-5	**1,60**	P0,8X5,0-50	**1,45**	P0,8X5,0-100	**1,37**
0,8X5,5	25	P0,8X5,5-2	**1,85**	P0,8X5,5-5	**1,60**	P0,8X5,5-50	**1,45**	P0,8X5,5-100	**1,37**
1,0X5,5	25	P1X5,5-2	**1,85**	P1X5,5-5	**1,60**	P1X5,5-50	**1,45**	P1X5,5-100	**1,37**
1,0X6,0	25	P1X6,0-2	**1,85**	P1X6,0-5	**1,60**	P1X6,0-50	**1,45**	P1X6,0-100	**1,37**
1,2X6,5	25	P1,2X6,5-2	**1,85**	P1,2X6,5-5	**1,60**	P1,2X6,5-50	**1,45**	P1,2X6,5-100	**1,37**
1,2X8,0	25	P1,2X8,0-2	**1,85**	P1,2X8,0-5	**1,60**	P1,2X8,0-50	**1,45**	P1,2X8,0-100	**1,37**

INSERTI INTERCAMBIABILI PER AVVITATORE

Plus ★★ 25mm LUNG. TOTALE (L_1)



TORX



€ x Inserto		2 U.		5 U.		50 U.		100 U.	
	L1 mm		€		€		€		€
T5	25	PT5-2	2,43	PT5-5	2,11	PT5-50	1,90	PT5-100	1,80
T6	25	PT6-2	2,43	PT6-5	2,11	PT6-50	1,90	PT6-100	1,80
T7	25	PT7-2	2,43	PT7-5	2,11	PT7-50	1,90	PT7-100	1,80
T8	25	PT8-2	2,43	PT8-5	2,11	PT8-50	1,90	PT8-100	1,80
T9	25	PT9-2	2,43	PT9-5	2,11	PT9-50	1,90	PT9-100	1,80
T10	25	PT10-2	2,00	PT10-5	1,56	PT10-50	1,39	PT10-100	1,32
T15	25	PT15-2	2,00	PT15-5	1,56	PT15-50	1,39	PT15-100	1,32
T20	25	PT20-2	2,00	PT20-5	1,56	PT20-50	1,39	PT20-100	1,32
T25	25	PT25-2	2,00	PT25-5	1,56	PT25-50	1,39	PT25-100	1,32
T27	25	PT27-2	2,00	PT27-5	1,56	PT27-50	1,39	PT27-100	1,32
T30	25	PT30-2	2,00	PT30-5	1,56	PT30-50	1,39	PT30-100	1,32
T40	25	PT40-2	2,00	PT40-5	1,56	PT40-50	1,39	PT40-100	1,32

TORX ROTONDA



€ x Inserto		2 U.		5 U.		50 U.		100 U.	
	L1 mm		€		€		€		€
TR10	25	PTR10-2	6,47	PTR10-5	5,62	PTR10-50	5,07	PTR10-100	4,77
TR15	25	PTR15-2	6,47	PTR15-5	5,62	PTR15-50	5,07	PTR15-100	4,77
TR20	25	PTR20-2	6,47	PTR20-5	5,62	PTR20-50	5,07	PTR20-100	4,77
TR25	25	PTR25-2	6,47	PTR25-5	5,62	PTR25-50	5,07	PTR25-100	4,77
TR30	25	PTR30-2	6,47	PTR30-5	5,62	PTR30-50	5,07	PTR30-100	4,77
TR40	25	PTR40-2	6,47	PTR40-5	5,62	PTR40-50	5,07	PTR40-100	4,77

TESTA QUADRA ROBERTSON



€ x Inserto		2 U.		5 U.		50 U.		100 U.	
	L1 mm		€		€		€		€
Nº1	25	PC1-2	2,60	PC1-5	2,27	PC1-50	2,04	PC1-100	1,93
Nº2	25	PC2-2	2,60	PC2-5	2,27	PC2-50	2,04	PC2-100	1,93
Nº3	25	PC3-2	2,60	PC3-5	2,27	PC3-50	2,04	PC3-100	1,93

INSERTI INTERCAMBIABILI PER AVVITATORE

Plus ★★ 25mm LUNG. TOTALE (L_1)






TORX ® TAMPER RESISTANT



€ x Inserto		2 U.		5 U.		50 U.		100 U.	
	L1 mm		€		€		€		€
TS10	25	PTS10-2	3,47	PTS10-5	3,01	PTS10-50	2,71	PTS10-100	2,56
TS15	25	PTS15-2	3,47	PTS15-5	3,01	PTS15-50	2,71	PTS15-100	2,56
TS20	25	PTS20-2	3,47	PTS20-5	3,01	PTS20-50	2,71	PTS20-100	2,56
TS25	25	PTS25-2	3,47	PTS25-5	3,01	PTS25-50	2,71	PTS25-100	2,56
TS27	25	PTS27-2	3,47	PTS27-5	3,01	PTS27-50	2,71	PTS27-100	2,56
TS30	25	PTS30-2	3,47	PTS30-5	3,01	PTS30-50	2,71	PTS30-100	2,56
TS40	25	PTS40-2	3,47	PTS40-5	3,01	PTS40-50	2,71	PTS40-100	2,56

TESTA ESAGONALE



€ x Inserto		2 U.		5 U.		50 U.		100 U.	
	L1 mm		€		€		€		€
2 mm	25	PHX2-2	1,92	PHX2-5	1,74	PHX2-50	1,55	PHX2-100	1,49
2,5 mm	25	PHX2,5-2	1,92	PHX2,5-5	1,74	PHX2,5-50	1,55	PHX2,5-100	1,49
3 mm	25	PHX3-2	1,92	PHX3-5	1,74	PHX3-50	1,55	PHX3-100	1,49
4 mm	25	PHX4-2	1,92	PHX4-5	1,74	PHX4-50	1,55	PHX4-100	1,49
5 mm	25	PHX5-2	1,92	PHX5-5	1,74	PHX5-50	1,55	PHX5-100	1,49
6 mm	25	PHX6-2	1,92	PHX6-5	1,74	PHX6-50	1,55	PHX6-100	1,49
8 mm	25	PHX8-2	2,27	PHX8-5	2,07	PHX8-50	1,94	PHX8-100	1,88

TRI WING



€ x Inserto		2 U.		5 U.		50 U.		100 U.	
	L1 mm		€		€		€		€
Nº4	25	PTRW4-2	11,45	PTRW4-5	9,95	PTRW4-50	8,96	PTRW4-100	8,46
Nº5	25	PTRW5-2	11,45	PTRW5-5	9,95	PTRW5-50	8,96	PTRW5-100	8,46
Nº6	25	PTRW6-2	11,45	PTRW6-5	9,95	PTRW6-50	8,96	PTRW6-100	8,46
Nº8	25	PTRW8-2	11,45	PTRW8-5	9,95	PTRW8-50	8,96	PTRW8-100	8,46

XZN



€ x Inserto		2 U.		5 U.		50 U.		100 U.	
	L1 mm		€		€		€		€
Nº4	25	PXZN4-2	7,02	PXZN4-5	6,10	PXZN4-50	5,49	PXZN4-100	5,19
Nº5	25	PXZN5-2	7,02	PXZN5-5	6,10	PXZN5-50	5,49	PXZN5-100	5,19
Nº6	25	PXZN6-2	7,02	PXZN6-5	6,10	PXZN6-50	5,49	PXZN6-100	5,19
Nº8	25	PXZN8-2	11,00	PXZN8-5	9,58	PXZN8-50	8,30	PXZN8-100	8,14
Nº10	25	PXZN10-2	11,00	PXZN10-5	9,58	PXZN10-50	8,30	PXZN10-100	8,14

INSERTI INTERCAMBIABILI PER AVVITATORE

Plus ★★ 50mm LUNG. TOTALE (L_1)





PHILLIPS



€ x Inserto		2 U.		5 U.		50 U.	
	L1 mm		€		€		€
Ph 1	50	Ph1X50-2	3,14	Ph1X50-5	2,74	Ph1X50-50	2,46
Ph 2	50	Ph2X50-2	3,14	Ph2X50-5	2,74	Ph2X50-50	2,46
Ph 3	50	Ph3X50-2	3,14	Ph3X50-5	2,74	Ph3X50-50	2,46
Ph 4	50	Ph4X50-2	-	Ph4X50-5	-	Ph4X50-50	-

POZIDRIV



€ x Inserto		2 U.		5 U.		50 U.	
	L1 mm		€		€		€
Pz 1	50	Pz1X50-2	3,14	Pz1X50-5	2,74	Pz1X50-50	2,46
Pz 2	50	Pz2X50-2	3,14	Pz2X50-5	2,74	Pz2X50-50	2,46
Pz 3	50	Pz3X50-2	3,14	Pz3X50-5	2,74	Pz3X50-50	2,46
Pz 4	50	Pz4X50-2	-	Pz4X50-5	-	Pz4X50-50	-

TESTA PIATTA



€ x Inserto		2 U.		5 U.		50 U.	
	L1 mm		€		€		€
0,5X4,0	50	P0,5X4,0X50-2	4,90	P0,5X4,0X50-5	4,26	P0,5X4,0X50-50	3,81
0,5X3,0	50	P0,5X3,0X50-2	4,90	P0,5X3,0X50-5	4,26	P0,5X3,0X50-50	3,81
0,6X3,5	50	P0,6X3,5X50-2	4,90	P0,6X3,5X50-5	4,26	P0,6X3,5X50-50	3,81
0,6X4,5	50	P0,6X4,5X50-2	4,90	P0,6X4,5X50-5	4,26	P0,6X4,5X50-50	3,81
0,8X4,0	50	P0,8X4,0X50-2	4,90	P0,8X4,0X50-5	4,26	P0,8X4,0X50-50	3,81
0,8X5,0	50	P0,8X5,0X50-2	4,90*	P0,8X5,0X50-5	4,26*	P0,8X5,0X50-50	3,81*
0,8X5,5	50	P0,8X5,5X50-2	4,90	P0,8X5,5X50-5	4,26	P0,8X5,5X50-50	3,81
1,0X5,5	50	P1X5,5X50-2	4,90	P1X5,5X50-5	4,26	P1X5,5X50-50	3,81
1,0X6,0	50	P1X6,0X50-2	4,90	P1X6,0X50-5	4,26	P1X6,0X50-50	3,81
1,2X6,5	50	P1,2X6,5X50-2	4,90	P1,2X6,5X50-5	4,26	P1,2X6,5X50-50	3,81
1,2X8,0	50	P1,2X8,0X50-2	4,90	P1,2X8,0X50-5	4,26	P1,2X8,0X50-50	3,81

*Fino ad esaurimento scorte

INSERTI INTERCAMBIABILI PER AVVITATORE

Plus ★★ 50mm LUNG. TOTALE (L_1)



TORX



€ x Inserto		2 U.		5 U.		50 U.	
	L1 mm		€		€		€
T 5	50	PT5X50-2	6,28	PT5X50-5	5,47	PT5X50-50	4,95
T 6	50	PT6X50-2	6,28	PT6X50-5	5,47	PT6X50-50	4,95
T 7	50	PT7X50-2	6,28	PT7X50-5	5,47	PT7X50-50	4,95
T 8	50	PT8X50-2	6,28	PT8X50-5	5,47	PT8X50-50	4,95
T 9	50	PT9X50-2	6,28	PT9X50-5	5,47	PT9X50-50	4,95
T 10	50	PT10X50-2	5,79	PT10X50-5	5,03	PT10X50-50	4,53
T 15	50	PT15X50-2	5,79	PT15X50-5	5,03	PT15X50-50	4,53
T 20	50	PT20X50-2	5,79	PT20X50-5	5,03	PT20X50-50	4,53
T 25	50	PT25X50-2	5,79	PT25X50-5	5,03	PT25X50-50	4,53
T 27	50	PT27X50-2	5,79	PT27X50-5	5,03	PT27X50-50	4,53
T 30	50	PT30X50-2	5,79	PT30X50-5	5,03	PT30X50-50	4,53
T 40	50	PT40X50-2	5,79	PT40X50-5	5,03	PT40X50-50	4,53

TESTA QUADRA ROBERTSON



€ x Inserto		2 U.		5 U.		50 U.	
	L1 mm		€		€		€
Nº1	50	PC1X50-2	7,54	PC1X50-5	6,56	PC1X50-50	5,91
Nº2	50	PC2X50-2	7,54	PC2X50-5	6,56	PC2X50-50	5,91
Nº3	50	PC3X50-2	7,54	PC3X50-5	6,56	PC3X50-50	5,91

ESAGONALE



€ x Inserto		2 U.		5 U.		50 U.	
	L1 mm		€		€		€
2 mm	50	PHX2X50-2	6,11	PHX2X50-5	5,31	PHX2X50-50	4,78
2,5 mm	50	PHX2,5X50-2	6,11	PHX2,5X50-5	5,31	PHX2,5X50-50	4,78
3 mm	50	PHX3X50-2	6,11	PHX3X50-5	5,31	PHX3X50-50	4,78
4 mm	50	PHX4X50-2	6,11	PHX4X50-5	5,31	PHX4X50-50	4,78
5 mm	50	PHX5X50-2	6,11	PHX5X50-5	5,31	PHX5X50-50	4,78
6 mm	50	PHX6X50-2	6,11	PHX6X50-5	5,31	PHX6X50-50	4,78
8 mm	50	PHX8X50-2	7,82	PHX8X50-5	7,17	PHX8X50-50	6,13

INSERTI INTERCAMBIABILI PER AVVITATORE

Plus ★★ 70mm LUNG. TOTALE (L_1)





PHILLIPS



€ x Bit	L1 mm	2 Uds	€	5 Uds	€
Ph 1	70	Ph1X70-2	7,37	Ph1X70-5	6,41
Ph 2	70	Ph2X70-2	7,37	Ph2X70-5	6,41
Ph 3	70	Ph3X70-2	7,37	Ph3X70-5	6,41
Ph 4	70	Ph4X70-2	-	Ph4X70-5	-

POZIDRIV



€ x Bit	L1 mm	2 Uds	€	5 Uds	€
Pz 1	70	Pz1X70-2	7,37	Pz1X70-5	6,41
Pz 2	70	Pz2X70-2	7,37	Pz2X70-5	6,41
Pz 3	70	Pz3X70-2	7,37	Pz3X70-5	6,41
Pz 4	70	Pz4X70-2	-	Pz4X70-5	-

Plus ★★ 90mm LUNG. TOTALE (L_1)





PHILLIPS



€ x Bit	L1 mm	2 Uds	€	5 Uds	€
Ph 1	90	Ph1X90-2	9,09	Ph1X90-5	7,91
Ph 2	90	Ph2X90-2	9,09	Ph2X90-5	7,91
Ph 3	90	Ph3X90-2	9,09	Ph3X90-5	7,91
Ph 4	90	Ph4X90-2	-	Ph4X90-5	-

POZIDRIV



€ x Bit	L1 mm	2 Uds	€	5 Uds	€
Pz 1	90	Pz1X90-2	9,09	Pz1X90-5	7,91
Pz 2	90	Pz2X90-2	9,09	Pz2X90-5	7,91
Pz 3	90	Pz3X90-2	9,09	Pz3X90-5	7,91
Pz 4	90	Pz4X90-2	-	Pz4X90-5	-

INSERTI INTERCAMBIABILI PER AVVITATORE

TiN

25mm LUNG. TOTALE (L_1)



PHILLIPS



€ x Inserto		2 U.		5 U.		50 U.	
	L1 mm		€		€		€
Ph 1	25	Ph1T-2	3,71	Ph1T-5	2,80	Ph1T-50	2,52
Ph 2	25	Ph2T-2	3,71	Ph2T-5	2,80	Ph2T-50	2,52
Ph 3	25	Ph3T-2	3,71	Ph3T-5	2,80	Ph3T-50	2,52

POZIDRIV



€ x Inserto		2 U.		5 U.		50 U.	
	L1 mm		€		€		€
Pz 1	25	Pz1T-2	3,71	Pz1T-5	2,80	Pz1T-50	2,52
Pz 2	25	Pz2T-2	3,71	Pz2T-5	2,80	Pz2T-50	2,52
Pz 3	25	Pz3T-2	3,71	Pz3T-5	2,80	Pz3T-50	2,52

TESTA PIATTA



€ x Inserto		2 U.		5 U.		50 U.	
	L1 mm		€		€		€
0,6X4,5	25	P0,6X4,5T-2	3,97	P0,6X4,5T-5	3,45	P0,6X4,5T-50	3,10
0,8X5,5	25	P0,8X5,5T-2	3,97	P0,8X5,5T-5	3,45	P0,8X5,5T-50	3,10
1,0X5,5	25	P1X5,5T-2	3,97	P1X5,5T-5	3,45	P1X5,5T-50	3,10
1,2X6,5	25	P1,2X6,5T-2	3,97	P1,2X6,5T-5	3,45	P1,2X6,5T-50	3,10

TORX



€ x Inserto		2 U.		5 U.		50 U.	
	L1 mm		€		€		€
T 10	25	PT10T-2	4,02	PT10T-5	3,51	PT10T-50	3,15
T 15	25	PT15T-2	4,02	PT15T-5	3,51	PT15T-50	3,15
T 20	25	PT20T-2	4,02	PT20T-5	3,51	PT20T-50	3,15
T 25	25	PT25T-2	4,02	PT25T-5	3,51	PT25T-50	3,15
T 27	25	PT27T-2	4,02	PT27T-5	3,51	PT27T-50	3,15
T 30	25	PT30T-2	4,02	PT30T-5	3,51	PT30T-50	3,15
T 40	25	PT40T-2	4,02	PT40T-5	3,51	PT40T-50	3,15

INSERTI INTERCAMBIABILI PER AVVITATORE

TiN

50mm LUNG. TOTALE (L_1)



PHILLIPS



€ x Inserto		2 U.		5 U.		50 U.	
	L1 mm		€		€		€
Ph 1	50	Ph1Tx50-2	8,56	Ph1Tx50-5	7,44	Ph1Tx50-50	6,67
Ph 2	50	Ph2Tx50-2	8,56	Ph2Tx50-5	7,44	Ph2Tx50-50	6,67
Ph 3	50	Ph3Tx50-2	8,56	Ph3Tx50-5	7,44	Ph3Tx50-50	6,67

POZIDRIV



€ x Inserto		2 U.		5 U.		50 U.	
	L1 mm		€		€		€
Pz 1	50	Pz1Tx50-2	8,56	Pz1Tx50-5	7,44	Pz1Tx50-50	6,67
Pz 2	50	Pz2Tx50-2	8,56	Pz2Tx50-5	7,44	Pz2Tx50-50	6,67
Pz 3	50	Pz3Tx50-2	8,56	Pz3Tx50-5	7,44	Pz3Tx50-50	6,67

TORX



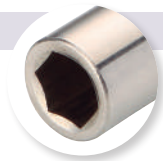
€ x Inserto		2 U.		5 U.		50 U.	
	L1 mm		€		€		€
T 10	50	PT10Tx50-2	12,13	PT10Tx50-5	10,54	PT10Tx50-50	9,48
T 15	50	PT15Tx50-2	12,13	PT15Tx50-5	10,54	PT15Tx50-50	9,48
T 20	50	PT20Tx50-2	12,13	PT20Tx50-5	10,54	PT20Tx50-50	9,48
T 25	50	PT25Tx50-2	12,13	PT25Tx50-5	10,54	PT25Tx50-50	9,48
T 27	50	PT27Tx50-2	12,13	PT27Tx50-5	10,54	PT27Tx50-50	9,48
T 30	50	PT30Tx50-2	12,13	PT30Tx50-5	10,54	PT30Tx50-50	9,48
T 40	50	PT40Tx50-2	12,13	PT40Tx50-5	10,54	PT40Tx50-50	9,48

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PORTAINSERTI MAGNETICI

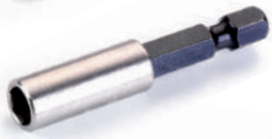
	L1 mm	TIPO DI CODOLO	€
PMGx51	51	MAGNETICO SENZA ANELLO	**6,94**
PMGx58	58	MAGNETICO SENZA ANELLO	**7,12**
PMGx74	74	MAGNETICO CON ANELLO	**12,54**
PMGx100	100	MAGNETICO CON ANELLO	**14,48**
PMGx150	150	MAGNETICO CON ANELLO	**16,01**
PMGx200	200	MAGNETICO CON ANELLO	**19,09**
PMGx250	250	MAGNETICO CON ANELLO	**29,36**
PMGSDSx78	78	SDS PLUS	**25,94**
PBERx74	74	BERILIO	**53,84***
PDESSx70	70	5/16" DESSOUTTER	**33,17***
P7x74	74	7mm Fein	**36,04***

*Fino ad esaurimento scorte





Ref. **PMGSDSX78**



Ref. **PMGX74**



Ref. **PMGX100**

PORTAINSERTI MAGNETICO A CAMBIO RAPIDO (ADATTO PER INSERTI DI ¼" CON COLLO)

	L1 mm	TIPO DI CODOLO	€
PCRX60	60	Cambio rapido 1/4" Adatto per inserti di ¼" con collo	**18,65**
PCRX74	74	Cambio rapido 1/4" Adatto per inserti di ¼" con collo	**19,22**
PCRSDSX80	80	SDS PLUS	**37,81**



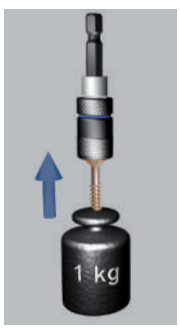


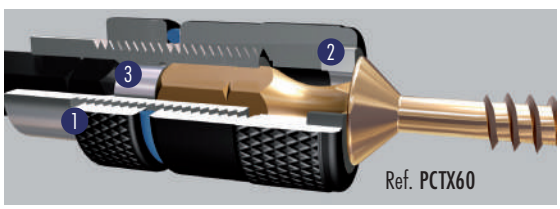
Ref. **PCRSDSX80**



Ref. **PCRX60**

PORTAINSERTI MAGNETICO CON ANELLO MAGNETICO FRONTALE SUPPLEMENTARE PER FISSAGGIO DI VITI





Ref. **PCTX60**

1. Collare regolabile.
2. Anello magnetico frontale per fissaggio di viti.
3. Anello magnetico per fissaggio dell'inserto.

	L1 mm	TIPO DI CODOLO	€
PCTX60	60	Portainserti con collare regolabile	**17,57**





Ref. **PCTX60**

BUSSOLE MAGNETICHE ESAGONALI



BUSSOLE MAGNETICHE ESAGONALI





	mm	"		€ / 1U.
PLIHX5-2	5,0		2	**6,85**
PLIHX5,5-2	5,5		2	**6,85**
PLIHX6-2	6,0		2	**6,85**
PLIHX1/4-2		1/4"=6,35	2	**6,85**
PLIHX7-2	7,0		2	**7,00**
PLIHX5/16-2		5/16"=7,93	2	**7,00**
PLIHX8-2	8,0		2	**7,00**
PLIHX3/8-2		3/8"=9,52	2	**7,00**
PLIHX10-2	10,0		2	**7,16**
PLIHX11-2	11,0		2	**7,16**
PLIHX12-2	12,0		2	**7,16**
PLIHX13-2	13,0		2	**7,16**

SET DI 7 PEZZI DI BUSSOLE MAGNETICHE ESAGONALI

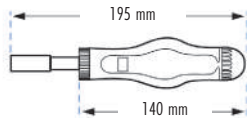
REFERENZA	EPLL
Nº PEZZI	7
CONTENUTO	HX1/4 - HX7 - HX8- HX3/8 HX10 - HX12 - HX13
P.V.P. €	**49,34**

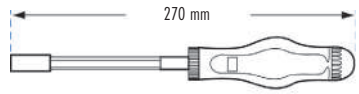


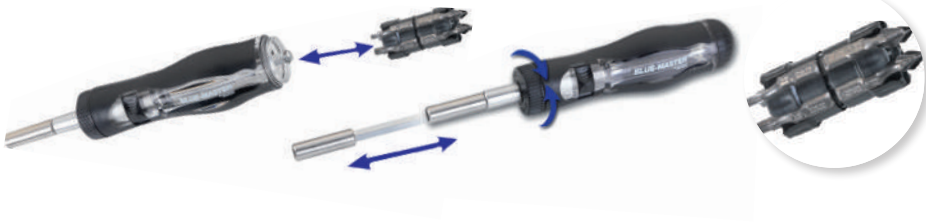
GIRAVITE A CRICCHETTO CON STOCCAGGIO DI INSERTI ED ESPOSITORE PER GIRAVITI

Plus

1. Alta qualità e rendimento.
2. Rotazione a destra e a sinistra.
3. Telescopico regolabile in lunghezza.
4. Fabbricato in acciaio e plastica ad alta resistenza.







	DTRC
Contenuto del giravite	⊕ PH1 - PH2
	⊕ PZ1 - PZ2
	✪ T15 - T20 - T25 - T30
	37,49 €

SET DI INSERTI INTERCAMBIABILI PER AVVITATORE

SET DI 7 PEZZI QUALITÀ PLUS E TiN



Ref. EPT1

REFERENZA	EPT1	EPT2	EPT3
Nº PEZZI	7	7	7
CONTENUTO	⊕ PH1 - PH2 ⊕ PZ1 - PZ2 ⊖ 0,8x5,5 - 1,2x6,5 1Portainserti PMG	T10 - T15 ✪ T20 - T25 T30 - T40 1Portainserti PMG	⊕ PH1 - PH2 - PH3 ⊕ PZ1 - PZ2 - PZ3 1Portainserti PMG
Plus			
P.V.P. €	**13,03**	**17,58**	**15,63**



Ref. EPTT1

REFERENZA	EPTT1	EPTT2	EPTT3
Nº PEZZI	7	7	7
CONTENUTO	⊕ PH1 - PH2 ⊕ PZ1 - PZ2 ⊖ 0,8x5,5 - 1,2x6,5 1Portainserti PMG	T10 - T15 ✪ T20 - T25 T30 - T40 1Portainserti PMG	⊕ PH1 - PH2 - PH3 ⊕ PZ1 - PZ2 - PZ3 1Portainserti PMG
TiN			
P.V.P. €	**37,00**	**42,90**	**35,67**

SET DI INSERTI INTERCAMBIABILI PER AVVITATORE

SET DI 12 PEZZI QUALITÀ PLUS E TiN



Ref. EPT4

REFERENZA	EPT4	EPT5
Nº PEZZI	12	12
CONTENUTO	PH1 - PH2(2) - PH3 PZ1 - PZ2(2) - PZ3 0,6x4,5 - 0,8x5,5 - 1,2x6,5 1Portainserti PMG	T10 - T15(2) T20(2) - T25(2) T27 - T30(2) - T40 1Portainserti PMG
P.V.P. €	17,48	24,01



Ref. EPTT4

REFERENZA	EPTT4	EPTT5
Nº PEZZI	12	12
CONTENUTO	PH1 - PH2(2) - PH3 PZ1 - PZ2(2) - PZ3 0,6x4,5 - 0,8x5,5 - 1,2x6,5 1Portainserti PCT	T10 - T15(2) T20(2) - T25(2) T27 - T30(2) - T40 1Portainserti PCT
P.V.P. €	46,58	54,81

SET DI 31 PEZZI QUALITÀ PLUS E TiN



Ref. EPT6

REFERENZA	EPT6
Nº PEZZI	31
CONTENUTO	PH1(3) - PH2(3) - PH3(3) PZ1(3) - PZ2(3) - PZ3(3) 0,6x4,5 - 0,8x5,5 - 1,2x6,5 T10 - T15 - T20 - T25 - T30 - T40 H3 - H4 - H5 1Portainserti PMG
P.V.P. €	50,00

REFERENZA	EPTT6
Nº PEZZI	31
CONTENUTO	PH1(3) - PH2(3) - PH3(3) PZ1(3) - PZ2(3) - PZ3(3) 0,6x4,5 - 0,8x5,5 - 1,2x6,5 T10 - T15 - T20 - T25 - T30 - T40 H3 - H4 - H5 1Portainserti PCT
P.V.P. €	106,07

SET DI 36 PEZZI QUALITÀ PLUS E TiN



Ref. EPT7

REFERENZA	EPT7
Nº PEZZI	36
CONTENUTO	PH1(3) - PH2(3) - PH3(3) PZ1(3) - PZ2(3) - PZ3(3) 0,5 x 4 - 0,6 x 4,5 - 0,8 x 5 - 0,8 x 5,5 - 1 x 6 - 1,2 x 6,5 - 1,2 x 8 T10 - T15 - T20 - T25 - T27 - T30 - T40 H2 - H2,5 - H3 - H4 - H5 - H6 - H8 1Portainserti PMG
P.V.P. €	63,30



Ref. EPTT7

REFERENZA	EPTT7*
Nº PEZZI	36
CONTENUTO	PH1(3) - PH2(3) - PH3(3) PZ1(3) - PZ2(3) - PZ3(3) 0,5 x 4 - 0,6 x 4,5 - 0,8 x 5 - 0,8 x 5,5 - 1 x 6 - 1,2 x 6,5 - 1,2 x 8 T10 - T15 - T20 - T25 - T27 - T30 - T40 H2 - H2,5 - H3 - H4 - H5 - H6 - H8 1Portainserti PCT
P.V.P. €	129,90*

*Fino ad esaurimento scorte

SET DI INSERTI INTERCAMBIABILI PER AVVITATORE

SET DI 45 E 80 PEZZI QUALITÀ *Plus*



Ref. **EPT45**

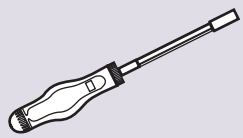




Ref. **EPT80**

REFERENZA	**EPT45**	
Nº PEZZI	45	
CONTENUTO	PH1(2) - PH2(2) - PH3(2)	Chiavi di bussole esagonali (mm): 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
	PZ1(2) - PZ2(2) - PZ3(2)	1 Adattatore per bussole
	0,5x3-0,6x4,5-0,8x5,5(2)-1,2x6,5-1,6x8	1 Adattatore per inserti
	H2,5 - H3 - H4 - H5 - H6 - H7	1 Portainserti Magnetico PCR
	T10 - T15 - T20 - T25 - T30 - T40	1 Chiave a cricchetto con 72 denti
		1 Giravite
P.V.P. €	**158,41**	

REFERENZA	**EPT80***	
Nº PEZZI	80	
CONTENUTO	PH0 - PH1 - PH2(4) - PH3(2)	C0 - C1 - C2 - C3
	PZ1- PZ2(4) - PZ3(2)	SP4 - SP6 - SP8 - SP10
	0,5x3-0,6x4,5-0,8x5,5(2)-1,2x6,5-1,6x8	HS3 - HS4 - HS5 - HS6
	H2 - H2,5 - H3 - H4 - H5 - H6 - H7 - H8	1 Portainserti Magnetico PCR
	TW1 - TW2 - TW3 - TW4 - TW5	1 Giravite
	TQ5 - TQ6 - TQ8 - TQ10	
	T5 - T6 - T7 - T8 - T9 - T10 - T15 T20(2) - T25(2) - T27 - T30 - T40	PH1 - PH2
		PZ1 - PZ2
	TS10 - TS15 - TS20 - TS25 - TS30 - TS40	T15 - T20 - T25 - T30
P.V.P. €	**155,24***	



*Fino ad esaurimento scorte

ESTRATTORI A MACCHINA PER VITI ROTTE

MICRO GRABIT





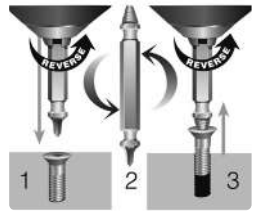



		EP
		€
EP451C	M3	55,10
EP452C	M4	55,10
EP453C	M5	55,10
EP454C	M6	55,10

1. Perforare la vite.
2. Girare.
3. Estrarre.

PRO GRABIT CON CORPO ESAGONALE 1/4"





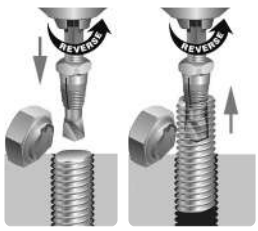




		EP
		€
EP8401C	M5	43,70
EP8402C	M6	51,63
EP8403C	M8	51,63
EP8404C	M10	54,18

1. Perforare la vite.
2. Girare.
3. Estrarre.

DRILL-OUT ESTRATTORE DI VITI ROTTE CON PUNTA PILOTA (M6-M12)

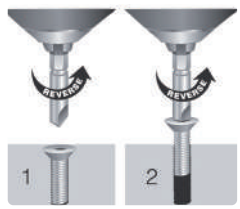







		EP
		€
EP205C	M6	53,42
EP312C	M8	64,73
EP375C	M10	64,73
EP500C	M12	72,86

X-OUT ESTRATTORE DI VITI ROTTE CON CODOLO ESAGONALE (M3-M5)







		EP
		€
EP3701C	M3	43,70
EP3702C	M4	43,70
EP3703C	M5	48,57

SERIE DI ESTRATTORI A MACCHINA PER VITI ROTTE

REFERENCIA	EP450C
Nº PIEZAS	4
CONTENIDO	M3-M4-M5-M6
P.V.P. €	226,00



REFERENCIA	EP401C
Nº PIEZAS	4
CONTENIDO	M6-M8-M10-M12
P.V.P. €	265,87



ESTRATTORI A MANO LAMINATI PER VITI ROTTE

SERIE DI ESTRATTORI CLASSICI PER VITI

Realizzare un foro centrale con la punta Blue-Master raccomandata; introdurre l'estrattore nel foro, girare l'estrattore verso sinistra fino ad estrarre la vite.



Ref. EX/1-6

REFERENZA	EX/1-5	EX/1-6	EX/1-8
Nº PEZZI	5	6	8
CONTENUTO	M3 - M18	M3 - M24	M3 - M45
P.V.P. €	22,96	31,07	71,73



	Per VITI	mm	Ø	L1 mm	Ø min mm	Ø max. mm	EX €
EX/1	M3 - M6	3,2	2,5	51	1,75	3,95	**3,06**
EX/2	M6 - M8	4,0	3,0	60	2,20	4,80	**3,06**
EX/3	M8 - M11	5,1	4,5	68	3,30	6,40	**3,60**
EX/4	M11 - M14	6,2	6,0	76	4,75	8,40	**4,47**
EX/5	M14 - M18	8,6	8,0	86	6,35	11,00	**5,82**
EX/6	M18 - M24	12,0	11,0	95	9,50	15,00	**9,82**
EX/7	M24 - M33	15,9	14,0	105	12,70	19,00	**26,63**
EX/8	M33 - M45	20,0	21,0	111	19,00	25,00	**43,60**



REFERENZA	EXTT
Nº PEZZI	10
ESTRATTORI PUNTE PRECEDENTI	EX/1-EX/2-EX/3-EX/4-EX/5 Ref. BC3 Ø2,5-3-4,5-6-8
P.V.P. €	**40,87**

ESTRATTORI A MANO PER VITI ROTTE



	Per VITI	mm	Ø	L1 mm	Ø min mm	Ø max. mm	EFX €
EFX/1	M3-M6	2,9	2,0	50	1,9	3,2	**3,85**
EFX/2	M6-M8	3,9	3,2	60	2,8	5,0	**3,85**
EFX/3	M8-M11	4,8	4,0	68	3,2	6,5	**4,56**
EFX/4	M11-M14	6,7	6,4	75	5,2	9,0	**5,67**
EFX/5	M14-M18	8,5	7,1	85	6,4	11,0	**7,35**
EFX/6	M18-M25	11,8	9,5	95	9,4	15,0	**12,43**
EFX/7	M25-M35	14,3	12,7	106	12,8	19,0	**33,68**
EFX/8	M35-M45	19,5	19,5	110	19,3	25,0	**55,17**



Ref. EFX/1-5

REFERENZA	EFX/1-5
Nº PEZZI	5
CONTENUTO	M3 - M18
P.V.P. €	**29,49**

PUNTE PER METALLO EXTRA CORTE

Ref. BH2





	Ø mm	L1 x L2 mm	⬡	BH2 €
BH20200	2,00	61 x 33	1/4"	**6,00**
BH20300	3,00	61 x 33	1/4"	**6,00**
BH20400	4,00	75 x 43	1/4"	**6,95**
BH20500	5,00	86 x 52	1/4"	**8,64**
BH20600	6,00	93 x 57	1/4"	**9,32**
BH20700	7,00	109 x 69	1/4"	**11,74**
BH20800	8,00	117 x 75	1/4"	**13,19**
BH20900	9,00	125 x 81	1/4"	**14,84**
BH21000	10,00	133 x 87	1/4"	**16,51**





REFERENZA	BH29335	BH29333
Nº PUNTE	5	8
QUALITÀ	HSS	HSS
CONTENUTO	Ø 3-4-5-6-8 mm	Ø 3-4-5-6-7-8-9-10 mm
P.V.P. €	**53,15**	**71,10**

UTENSILI A CODOLO ESAGONALE 1/4”

PUNTA PER METALLO EXTRA CORTA

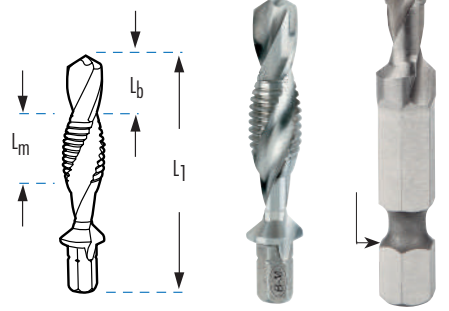
Ref. BC59 — HSS-G



	Ø mm	L1 x L2 mm	⬡	BC59 €	BC59CR €
BC590100	1,00	34 x 12	1/4"	7,21	-
BC590150	1,50	34 x 12	1/4"	7,21	-
BC590200	2,00	34 x 12	1/4"	7,21	7,21
BC590250	2,50	36 x 14	1/4"	7,21	7,21
BC590300	3,00	38 x 16	1/4"	7,21	7,21
BC590330	3,30	40 x 18	1/4"	7,21	7,21
BC590350	3,50	40 x 18	1/4"	7,21	7,21
BC590400	4,00	44 x 20	1/4"	7,21	7,21
BC590420	4,20	45 x 20	1/4"	7,21	7,21
BC590450	4,50	46 x 24	1/4"	7,21	7,21
BC590500	5,00	50 x 26	1/4"	7,21	7,21
BC590550	5,50	50 x 26	1/4"	7,53	7,53
BC590600	6,00	50 x 26	1/4"	7,53	7,53
BC590650	6,50	50 x 30	1/4"	7,53	7,53
BC590680	6,80	50 x 30	1/4"	7,53	7,53
BC590700	7,00	50 x 30	1/4"	7,53	7,53
BC590750	7,50	51 x 32	1/4"	8,80	8,80
BC590800	8,00	51 x 32	1/4"	8,80	8,80
BC590850	8,50	53 x 33	1/4"	8,80	8,80
BC590900	9,00	53 x 33	1/4"	10,14	10,14
BC590950	9,50	54 x 38	1/4"	10,14	10,14
BC591000	10,00	54 x 38	1/4"	10,14	10,14
BC591020	10,20	54 x 38	1/4"	10,14	10,14

PUNTE-MASCHI SVASATORI

Ref. MAHM — HSS-G



	L1 x Lb x Lm mm	⬡	MAHM €	MAHMCR €
M 3 x 0,50	36 x 5 x 6	1/4"	20,36	20,36
M 4 x 0,70	39 x 6 x 7	1/4"	20,36	20,36
M 5 x 0,80	41 x 8 x 8	1/4"	20,36	20,36
M 6 x 1,00	44 x 8 x 10	1/4"	20,36	20,36
M 8 x 1,25	50 x 10 x 11	1/4"	28,16	28,16
M 10 x 1,50	59 x 11 x 11	1/4"	33,96	33,96

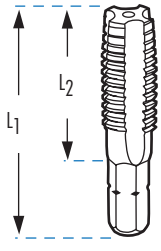


REFERENZA	MAH9327CR
Nº PUNTE	5
REFERENZA PUNTE	MAHMCR
CONTENUTO	M4-M5-M6-M8-M10
P.V.P. €	143,56

MASCHI HSS-G

Ref. M — HSS-G

	L1 x L2 mm	⬡	M €	MCR €
M 3 x 0,50	33 x 11	1/4"	7,59	7,59
M 4 x 0,70	35 x 12	1/4"	7,59	7,59
M 5 x 0,80	36 x 15	1/4"	9,65	9,65
M 6 x 1,00	39 x 18	1/4"	9,65	9,65
M 8 x 1,25	40 x 19	1/4"	13,38	13,38
M 10 x 1,50	41 x 21	1/4"	16,53	16,53





UTENSILI A CODOLO ESAGONALE 1/4"

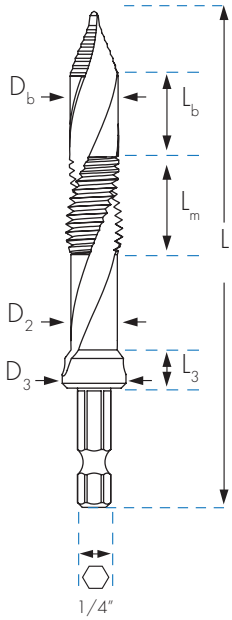
BROCA MACHO HSSCo STEP CUT

NEW

Ref. MTKM

DIN 13 — 60° — p | HSSCo 5% | BRILLANTE | TOL 6H | D CODOLO SOTTILE | 1/4"

STEP CUT

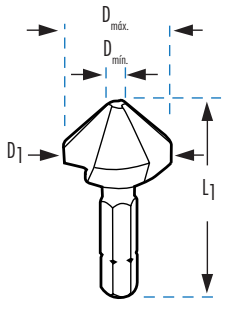




		Lb mm	Lm mm	L3 mm	L mm	Db mm	D2 mm	D3 mm	⬡	MTKM €
M 3x0,50	D	7,0	6,0	6,0	57,0	2,5	2,2	7,3	1/4"	23,41
M 4x0,70	D	7,0	8,5	6,0	62,0	3,3	3,0	7,3	1/4"	23,41
M 5x0,80	D	9,0	10,0	6,0	69,0	4,2	3,7	7,3	1/4"	23,41
M 6x1,00	D	10,0	12,0	6,0	73,0	5,0	4,5	7,3	1/4"	23,41
M 8x1,25	D	12,0	16,0	6,0	87,0	6,8	6,3	9,4	1/4"	32,39
M 10x1,50	D	14,0	20,0	6,0	96,0	8,5	8,0	11,4	1/4"	39,05
M 12x1,75	D	16,0	24,0	8,0	112,0	10,3	9,8	13,4	1/4"	56,36

SVASATORE A 3 TALLIENTI

Ref. AV22 | HSS-G





D1 mm	L1 mm	D min. -D max. mm	⬡	AV22 €
6,30	31	1,50 - 5,8	1/4"	19,05
8,30	31	2,00 - 7,8	1/4"	19,05
10,40	34	2,50 - 10,0	1/4"	20,43
12,40	35	2,80 - 12,0	1/4"	21,80
16,50	40	3,20 - 16,0	1/4"	24,38
20,50	41	3,50 - 20,0	1/4"	26,78

SVASATORE A SBAVARE

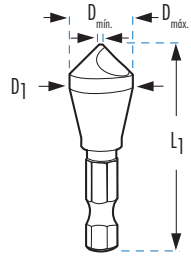
Ref. AV1...CR | HSS | 90° | 1/4"



Ref. AV101CR
Ref. AV102CR



Ref. AV103CR
Ref. AV104CR

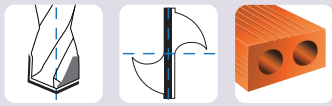


	D1 mm	L1 mm	D min. -D max. mm	⬡	AV1..CR €
AV101CR	10,00	40	2,0 - 5,0	1/4"	19,32
AV102CR	14,00	42	5,0 - 10,0	1/4"	24,14
AV103CR	17,00	45	5,0 - 13,0	1/4"	43,25
AV104CR	25,00	55	7,0 - 20,0	1/4"	77,25

UTENSILI A CODOLO ESAGONALE 1/4"

PUNTA PER MURO

Ref. BWH





	Ø mm	L1 x L2 mm	⬡	BWH €
BWH03	3	70 x 30	1/4"	3,39
BWH04	4	70 x 30	1/4"	3,66
BWH05	5	85 x 45	1/4"	3,97
BWH06	6	100 x 50	1/4"	4,42
BWH07	7	100 x 50	1/4"	5,19
BWH08	8	120 x 70	1/4"	6,00
BWH09	9	120 x 70	1/4"	7,18
BWH10	10	120 x 70	1/4"	8,03
BWH11	11	150 x 80	1/4"	10,01
BWH12	12	150 x 80	1/4"	11,31
BWH13	13	150 x 80	1/4"	13,90
BWH14	14	150 x 80	1/4"	16,19

PUNTA PER LEGNO

Ref. BMH





	Ø mm	L1 x L2 mm	⬡	BMH €
BMH03	3	59 x 35	1/4"	2,15
BMH04	4	74 x 41	1/4"	2,28
BMH05	5	82 x 55	1/4"	2,26
BMH06	6	88 x 58	1/4"	3,03
BMH07	7	110 x 70	1/4"	3,44
BMH08	8	110 x 70	1/4"	3,58
BMH09	9	110 x 70	1/4"	3,73
BMH10	10	115 x 75	1/4"	4,14
BMH11	11	135 x 85	1/4"	4,83
BMH12	12	135 x 85	1/4"	5,65
BMH13	13	135 x 90	1/4"	8,85
BMH14	14	145 x 95	1/4"	11,03











REFERENZA	BWH9318	BWH9327	BWH9319	BMH9335	BMH9333
Nº PUNTE	5	5	8	5	8
APLICACIÓN	MURO	MURO	MURO	LEGNO	LEGNO
CONTENUTO	Ø 3 - 4 - 5 - 6 - 8 mm	Ø 4 - 5 - 6 - 8 - 10 mm	Ø 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 mm	Ø 3 - 4 - 5 - 6 - 8 mm	Ø 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 mm
P.V.P. €	28,58	34,48	39,47	17,73	23,38

ASSORTIMENTI DI UTENSILI A CODOLO ESAGONALE 1/4"



Ref. EB



Ref. EMBP

CONTENUTO

	HSS-G	HSS-G			€
EM	M3 - M4 - M5 - M6 M8 - M10	-	-	-	62,66
EMBP	M3 - M4 - M5 - M6 M8 - M10	Ø 2,50 - 3,30 - 4,20 5 - 6,80 - 8,50	-	-	101,30
EBM	-	-	M3 - M4 - M5 - M6 M8 - M10	-	132,69
EA	-	-	-	Ø 6,30 - 8,30 - 10,40 12,40 - 16,50 - 20,50	127,97
EB	-	Ø 1 - 10 mm x 0,50	-	-	140,34

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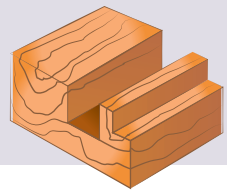


FRESE PER ELETTROFRESATRICI

FRESA A TAGLIENTI DIRITTI PER CANALI

Ref. FRC1

MD | 1Z | 2Z



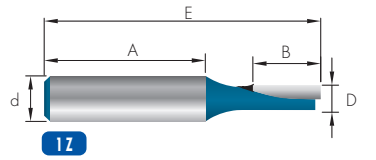


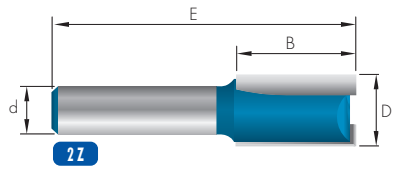


Ref. FRC10500



	FRC1						
	Z	D	B	d	A	E	€
FRC10300	1Z	3,0	8,0	8,0	32,0	51,0	**29,52**
FRC10400	1Z	4,0	8,0	8,0	33,6	51,0	**29,52**
FRC10500	1Z	5,0	12,5	8,0	29,7	51,0	**31,74**
FRC10600	2Z	6,0	16,0	8,0	-	48,0	**31,74**
FRC10800	2Z	8,0	20,0	8,0	-	51,0	**32,94**
FRC11000	2Z	10,0	20,0	8,0	-	51,0	**32,94**
FRC11200	2Z	12,0	20,0	8,0	-	51,0	**35,33**

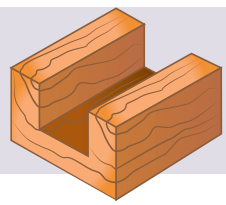




FRESA A TAGLIENTI DIRITTI PER CANALI TAGLIATO AL CENTRO

Ref. FRC2

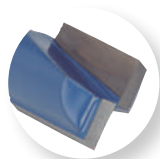
MD | 1Z | 2Z



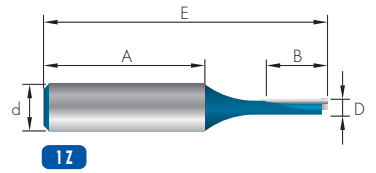


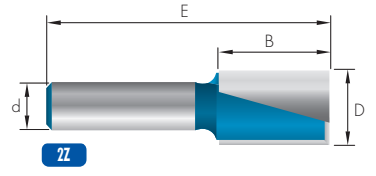


Ref. FRC21400



	FRC2						
	Z	D	B	d	A	E	€
FRC20300	1Z	3,0	11,0	8,0	29,0	51,0	**25,66**
FRC20400	2Z	4,0	11,0	8,0	-	51,2	**25,66**
FRC20500	2Z	5,0	11,0	8,0	-	51,2	**27,59**
FRC20600	2Z	6,0	19,5	8,0	-	51,0	**27,59**
FRC20760	2Z	7,6	21,0	8,0		58,0	**27,59**
FRC20800	2Z	8,0	20,0	8,0	-	51,0	**27,59**
FRC21000	2Z	10,0	20,0	8,0	-	51,0	**28,65**
FRC21200	2Z	12,0	20,0	8,0	-	51,0	**30,72**
FRC21400	2Z	14,0	20,0	8,0	-	51,0	**32,99**
FRC21600	2Z	16,0	20,0	8,0	-	51,0	**35,52**
FRC21800	2Z	18,0	20,0	8,0	-	51,0	**36,87**
FRC22000	2Z	20,0	20,0	8,0	-	51,0	**40,02**
FRC22200	2Z	22,0	25,0	8,0	-	56,0	**41,59**
FRC22400	2Z	24,0	10,0	8,0		42,5	**42,68**



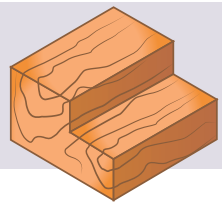


FRESA A GRADINO

Ref. FRC3

MD

2 Z

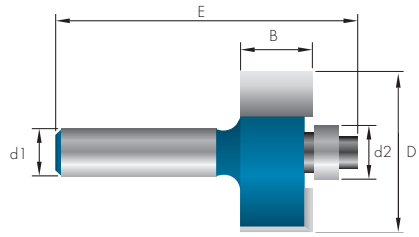








Ref. FRC32860



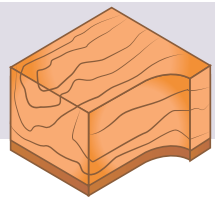
	FRC3					
	D	B	d1	d2	E	€
FRC32860	28,6	12,7	8,0	9,5	53,4	**49,71**

FRESA PER REFILARE

Ref. FRC4

MD

2 Z

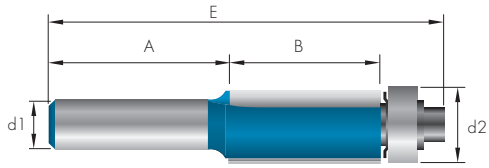








Ref. FRC41270



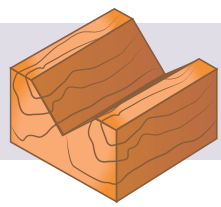
	FRC4					
	d2	B	d1	A	E	€
FRC41270	12,7	25,4	8,0	30,0	67,0	**38,99**

FRESA PER INTAGLI A "V" 90º

Ref. FRC5

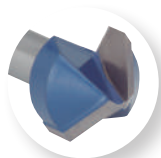
MD



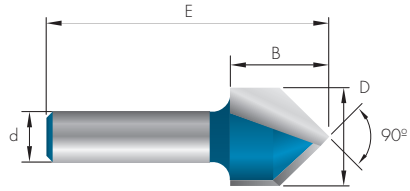








Ref. FRC51900

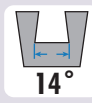


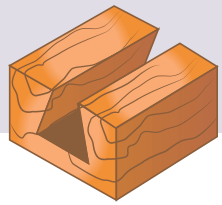
	FRC5				
	D	B	d	E	€
FRC51270	12,7	12,7	8,0	45,5	**32,09**
FRC51600	16,0	15,9	8,0	45,7	**36,21**
FRC51900	19,0	16,0	8,0	51,5	**42,82**

FRESA PER UNIONE A CODA DI RONDINE

Ref. FRC6

MD



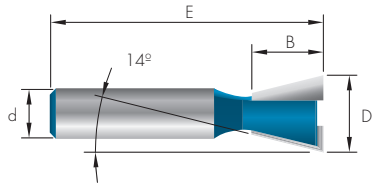








Ref. FRC61270

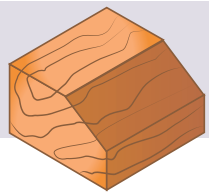


	D	B	d	E	FRC6 €
FRC61270	12,7	11,8	8,0	45	**48,27**

FRESA PER SMUSSARE 45°

Ref. FRC7

MD

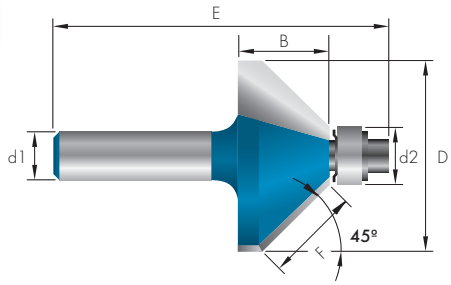








Ref. FRC73200

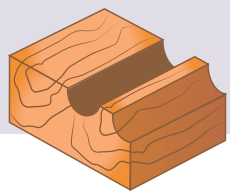


	D	B	d1	d2	E	F	FRC7 €
FRC73200	32,0	15,0	8,0	9,5	56	15,7	**45,24**

FRESA A RAGGIO CONCAVO

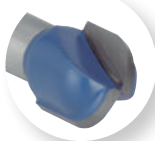
Ref. FRC8

MD

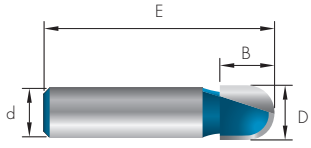








Ref. FRC81270

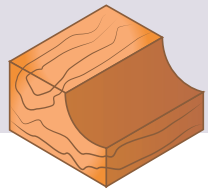


	D	B	d	E	FRC8 €
FRC80950	9,5	9,5	8,0	40	**39,71**
FRC81270	12,7	12,7	8,0	40	**42,39**

FRESA A RAGGIO CONCAVO

Ref. FRC9

MD



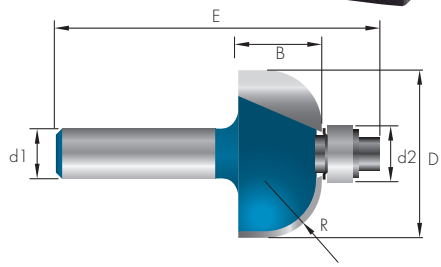




Ref. FRC92850



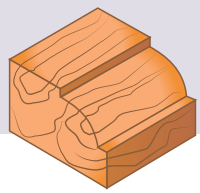
	D	B	d1	d2	E	R	FRC9 €
FRC92850	28,5	14,1	8,0	9,5	50,0	9,5	**61,01**
FRC93500	35,0	16,0	8,0	9,5	59,0	12,7	**72,37**



FRESA A RAGGIO CONVESSO PER MATERIALI COMPOSITI

Ref. FRC10

MD



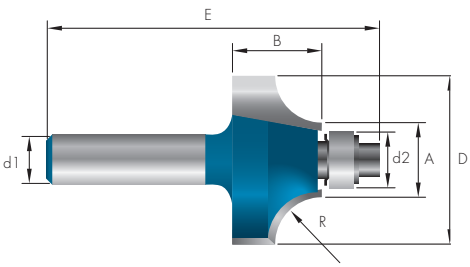




Ref. FRC102860



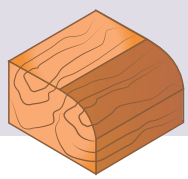
	D	B	d1	A	E	d2	R	FRC10 €
FRC102540	25,4	13,5	8,0	12,7	54,0	9,5	6,35	**66,68**
FRC102860	28,6	15,2	8,0	12,7	57,0	9,5	7,95	**70,32**
FRC103180	31,8	16,5	8,0	12,7	56,0	9,5	9,55	**75,69**
FRC103810	38,1	19,0	8,0	12,7	59,0	9,5	12,7	**88,07**



FRESA PER SMUSSARE A RAGGIO CONVESSO PER MATERIALI COMPOSITI

Ref. FRC11

MD



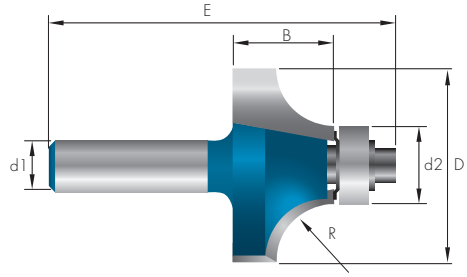




Ref. FRC112860



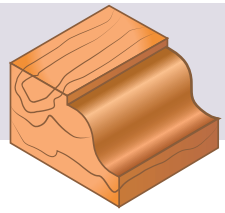
	D	B	d1	d2	E	R	FRC11 €
FRC112500	25,0	13,5	8,0	12,7	55,0	6,35	**66,68**
FRC112860	28,6	15,2	8,0	12,7	57,0	7,95	**70,32**
FRC113180	31,8	16,5	8,0	12,7	57,0	9,55	**75,69**
FRC113810	38,1	16,5	8,0	12,7	59,0	12,7	**88,07**



FRESA PER SMUSSARE PROFILATE PER MATERIALI COMPOSITI

Ref. FRC12

MD

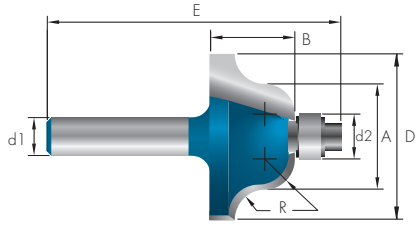






Ref. FRC123500



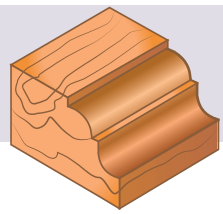


	D	B	d1	A	E	d2	R	FRC12 €
FRC123500	35,0	17,8	8,0	22,2	62,0	9,5	6,35	**94,76**

FRESA A DOPPIO RAGGIO PER MATERIALI COMPOSITI

Ref. FRC13

MD

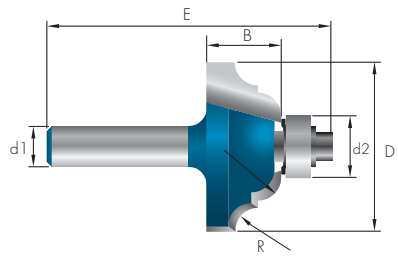






Ref. FRC133500



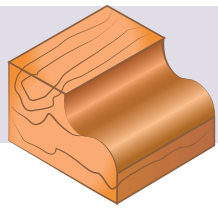


	D	B	d1	d2	E	R	FRC13 €
FRC133500	35,0	15,4	8,0	12,7	59,0	6,35	**63,34**

FRESA PER SMUSSARE PROFILATE PER MATERIALI COMPOSITI

Ref. FRC14

MD

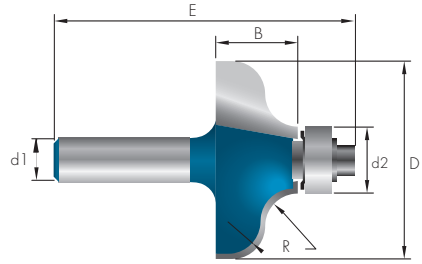






Ref. FRC143180





	D	B	d1	d2	E	R	FRC14 €
FRC143180	31,8	12,6	8,0	12,7	55,0	4,8	**74,10**
FRC143810	38,1	15,8	8,0	12,7	58,0	6,3	**84,65**

BLUE-MASTER®
by celesa



PUNTE PER EDILIZIA

PUNTA AD ALTO RENDIMENTO CON TESTA IN DIAMANTE PER MATERIALI MOLTO DURI, GRES, PORCELLANICI, ECC.

PD:
Punte in diamante intercambiabili.



CPD:
Prolunga.
Disponibile in 50 o 100 mm.

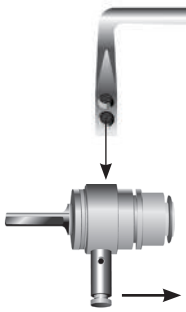


HPD:
Gambo con refrigerazione interna ad acqua.



		PD		CPD		CPD-100		HPD	
	Ø mm	€		€		€		€
PD0500	5,00	22,50	CPD0500	31,58	CPD0500-100	45,00		
PD0600	6,00	26,71						
PD0650	6,50	26,71	CPD0600	32,70	CPD0600-100	45,00		
PD0800	8,00	45,00						
PD0850	8,50	45,00						
PD0900	9,00	49,21	CPD0850	36,08	CPD0850-100	50,62	HPD1	230,24
PD1000	10,00	49,21						
PD1050	10,50	49,21	CPD1050	36,08	CPD1050-100	50,62		
PD1200	12,00	56,25						
PD1450	14,50	64,69			CPD1450-100	56,25		
PD1600	16,00	71,72			CPD1600-100	56,25		
PD1800	18,00	80,15	CPD1450	42,29	CPD1800-100	56,25	HPD2	285,50
PD2000	20,00	94,21			CPD2000-100	61,87		

STEP 1
Gambo



STEP 2
Mediante POLY-CLIC accoppiamo la prolunga



Presa d'acqua

STEP 3
Testa in diamante intercambiabile



STEP 4
Refrigerazione ad acqua



STEP 5
Applicazione e accessori

PUNTA DIAMANTE

GBD

GBP



GUIDA A CENTRARE PER PUNTE E TESTA IN DIAMANTE CON TESTE INTERCAMBIABILI

- 8 Fori: Ø 4-5-6-6,5-8-10-12-13 mm
- Facile adattamento del sistema di refrigerazione.
- Ventose per attacco in superfici piane (non ruvide) per una perfetta aderenza.
- Per perforazioni centrate e refrigerazioni in vetro, grès, materiali porcellanici, ecc.

GBD
24,96 €





TANICA PER REFRIGERAZIONE AD ACQUA

GBP
10,16 €

- Capacità: 1,1L.

PUNTA SPECIALE PER GRES, PORCELLANICI E ARDESIA

Ref. **BW9**



Rivoluzionaria geometria della placchetta

Serie Extra Professionale

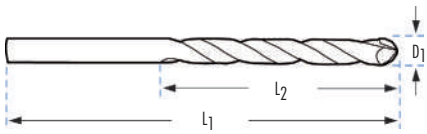




- Questa punta si distingue specialmente per la qualità della placchetta, la sua tecnica di saldatura e la sua rivoluzionaria geometria.
- Forare a sola rotazione.
- Refrigerazione sempre ad acqua, preferibilmente utilizzando la guida CGB.

APPLICAZIONI:

- Ceramiche molto dure e abrasive come GRÈS, PORCELLANICI, ecc.



	D1 mm	L1x L2 mm	BW9 €
BW90300	3,0	85 x 40	**26,73**
BW90350	3,5	85 x 40	**26,73**
BW90400	4,0	85 x 45	**26,73**
BW90450	4,5	85 x 45	**26,73**
BW90500	5,0	85 x 45	**28,27**
BW90550	5,5	100 x 60	**28,81**
BW90600	6,0	100 x 60	**29,57**
BW90650	6,5	100 x 60	**30,12**
BW90700	7,0	125 x 70	**33,83**
BW90750	7,5	125 x 70	**34,46**
BW90800	8,0	125 x 70	**36,69**
BW90850	8,5	125 x 70	**37,38**
BW90900	9,0	150 x 85	**44,47**
BW91000	10,0	150 x 85	**44,47**
BW91050	10,5	150 x 85	**58,79**
BW91100	11,0	150 x 85	**57,71**







REFERENZA	BW99325	BW99318
Nº PUNTE	4	5
QUALITÀ	EXTRA PROFESSIONALE	EXTRA PROFESSIONALE
CONTENUTO	Ø 4 - 5 - 6 - 8 mm	Ø 3 - 4 - 5 - 6 - 8 mm
P.V.P. €	**125,19**	**152,50**

GUIDA DI CENTRAGGIO CON RAFFREDDAMENTO AD ACQUA

R.P.M. RACCOMANDATE		
Ø mm	R.P.M. Max.	R.P.M. Min.
3,0	1350	1100
4,0	1200	1000
5,0	1100	920
6,0	1000	830
7,0	900	740
8,0	800	650
9,0	700	550
10,0	600	500
11,0	550	450







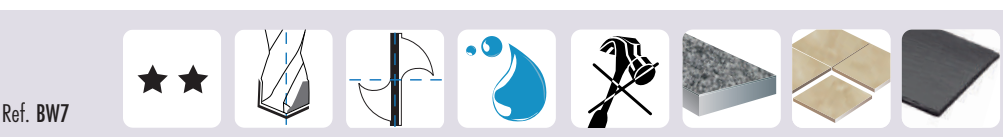


- Guida per perforazione di fori 5-6-7-8-10-12-15-35 mm

CGB
11,63 €

PUNTA SPECIALE PER GRES, PORCELLANICI E ARDESIA

Ref. BW7





Serie Standard



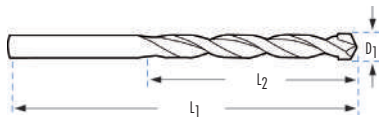
- Forare a sola rotazione.
- Refrigerazione sempre ad acqua, preferibilmente utilizzando la guida CGB.

APPLICAZIONI:

- Ceramiche molto dure e abrasive come GRÈS, PORCELLANICI, ecc.

- Applicazione speciale: Grazie alla sua geometria di taglio, questa punta può essere utilizzata anche per la forazione di viti rotte, HARDOX 450 e inferiori.





	D1 mm	L1x L2 mm		BW7 €
BW703	3,0	60 x 32	1	7,57
BW704	4,0	75 x 43	1	7,57
BW705	5,0	85 x 50	1	7,71
BW706	6,0	100 x 60	1	7,71
BW707	7,0	100 x 62	1	10,11

Blister: 190x60 mm.

	D1 mm	L1x L2 mm		BW7 €
BW708	8,0	120 x 80	1	12,34
BW709	9,0	120 x 82	1	12,86
BW710	10,0	120 x 82	1	13,42
BW712	12,0	150 x 101	1	25,46
BW713	13,0	150 x 92	1	26,63

Blister: 230x60 mm.



REFERENZA	BW79325
Nº PUNTE	4
QUALITÀ	STANDARD
CONTENUTO	Ø 4 - 5 - 6 - 8 mm
P.V.P. €	39,74

GUIDA DI CENTRAGGIO CON RAFFREDDAMENTO AD ACQUA

R.P.M. RACCOMANDATE

Ø mm	R.P.M. Max.	R.P.M. Min.
4,0	1000	830
5,0	900	740
6,0	800	650
8,0	600	500
10,0	500	400









CGB
11,63 €

- Guida per perforazione di fori 5-6-7-8-10-12-15-35 mm

PUNTE 4 TAGLIENTI PER VETRO E CERAMICA LEGGERA

Ref. **BW13**



Serie Extra Professionale





- Forare a sola rotazione.
- Forare sempre raffreddando intensamente con acqua
- Affilatura a 4 taglienti per una migliore penetrazione, minore sforzo e migliore qualitá del buco.

APPLICAZIONI:

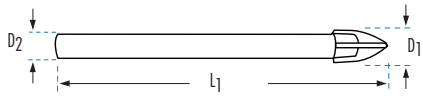
- Vetro, Cristallo, Porcellanico e Pannello compatto fenolico.
- La soluzione per realizzare buchi nal pannello fenolico (coperchio wc, armadietti spogliatoi)
- Finitura perfetta, non spellicola la tavola fenolica ne in entrata ne in uscita.

R.P.M. RACCOMANDATE

Ø mm	R.P.M.
3 - 6	900
8 - 10	700
12 - 14	600

	BW13			
	D1 mm	D2 mm	L1 mm	€
BW1303	3,0	2,5	62	9,01
BW1304	4,0	3,0	65	9,76
BW1305	5,0	4,0	68	10,37
BW1306	6,0	4,0	72	10,97
BW1308	8,0	6,0	80	11,91
BW1310	10,0	8,0	90	16,65
BW1312	12,0	10,0	100	23,20
BW1314	14,0	10,0	100	26,44
BW1316	16,0	10,0	100	31,25
BW1318	18,0	10,0	110	34,25
BW1320	20,0	10,0	110	35,36
BW1322	22,0	10,0	120	38,36
BW1325	25,0	10,0	120	40,05





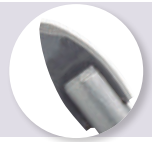


REFERENZA	BW139325
Nº PUNTE	4
QUALITÀ	PROFESSIONALE
CONTENUTO	Ø 4 - 5 - 6 - 8 mm
P.V.P. €	39,98

PUNTA PER VETRO

Ref. **BC90B**





Serie Standard



	BC90B			
	D1 mm	D2 mm	L1 mm	€
BC9003B	3,0	2,5	65	6,36
BC9004B	4,0	3,0	65	6,89
BC9005B	5,0	4,0	65	7,31
BC9006B	6,0	4,0	65	7,73
BC9008B	8,0	6,0	70	8,41
BC9010B	10,0	8,0	80	11,76
BC9012B	12,0	10,0	80	16,36
BC9014B	14,0	10,0	80	18,65





REFERENZA	BC909325
Nº PUNTE	4
QUALITÀ	STANDARD
CONTENUTO	Ø 4 - 5 - 6 - 8 mm
P.V.P. €	30,92

PUNTA PER GRES PORCELLANATO SERIE PROFESSIONALE CON TESTA IN METALLO DURO

NEW

Ref. **BW5**



Serie Professionale

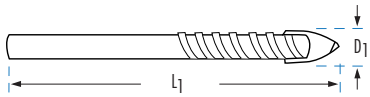




- Forare a sola rotazione.
- Forare sempre raffreddando intensamente con acqua.
- Punta in metallo duro affilata speciale Alte prestazioni Facile penetrazione, meno sforzo e migliore qualità del foro.

APPLICAZIONI:

- Porcellana, Ceramica dura, Piastrella, Ardesia, Vetro, ...



			BW5
	D1 mm	L1x L2 mm	€
BW50300	3,0	80 x 40	**7,57**
BW50400	4,0	80 x 40	**7,57**
BW50500	5,0	80 x 40	**7,71**
BW50600	6,0	80 x 40	**7,71**
BW50700	7,0	80 x 40	**10,11**
BW50800	8,0	100 x 60	**12,34**
BW50900	9,0	100 x 60	**12,86**
BW51000	10,0	100 x 60	**13,42**
BW51200	12,0	100 x 60	**25,46**
BW51300	13,0	100 x 60	**26,63**



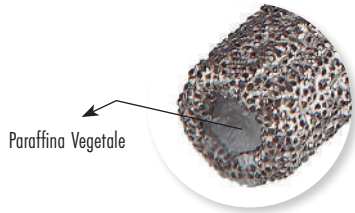
PUNTA IN DIAMANTE SALDATO A VUOTO PER PORCELLANICO

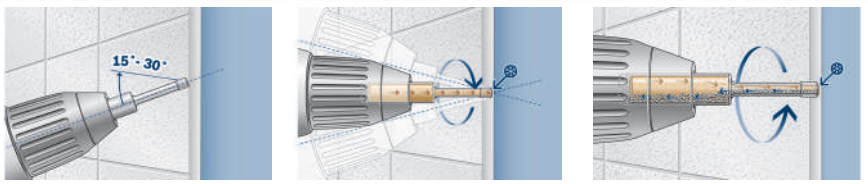
Ref. CPS

Speciale Lavoro a Secco

Serie Diamond



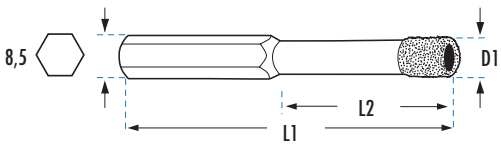




- Forare a sola rotazione.
- La punta CPS perfora porcellanico senza necessitare acqua grazie al suo innovativo sistema di autolubrificazione con paraffina vegetale. Ciò nonostante, l'acqua ne aumenta esponenzialmente il rendimento.
- Iniziare a forare con la punta inclinata (angolo da 15º a 30º) e raddrizzarla progressivamente. Le guide non sono necessarie.
- Forare il porcellanico realizzando dolci movimenti rotatori, per facilitare l'estrazione del nucleo.
- Prima di finalizzare il lavoro, smetta di esercitare pressione per evitare che il nuceo di perforazione si attacchi all'interno della corona.
- È preferibile estrarre manualmente il nucleo dopo ogni perforazione.
- Maggior numero di perforazioni in meno tempo e con meno sforzo.
- Il deposito interno di paraffina vegetale non è ricaricabile.



Corona di diamante a secco
Amarre M14x2 disponible
Ref.CSE Ø 5-83 mm Pag. 601



	D1 mm	⬡	L1x L2 mm	CPS €
CPS05	5,0	8,5	67 x 33	**34,39**
CPS06	6,0	8,5	67 x 33	**34,88**
CPS08	8,0	8,5	80 x 33	**38,59**
CPS10	10,0	8,5	80 x 33	**47,37**
CPS12	12,0	8,5	80 x 33	**56,01**
CPS14	14,0	8,5	80 x 33	**61,73**
CPS15	15,0	8,5	80 x 33	**59,81**
CPS20	20,0	8,5	80 x 50	**65,45**
CPS22	22,0	8,5	80 x 50	**71,94**
CPS25	25,0	8,5	80 x 50	**76,41**
CPS30	30,0	8,5	80 x 50	**83,09**





REFERENZA	**CPS9328**
Nº PUNTE	4
CONTENUTO	Ø 5 - 6 - 8 -10 mm
P.V.P. €	**152,36**

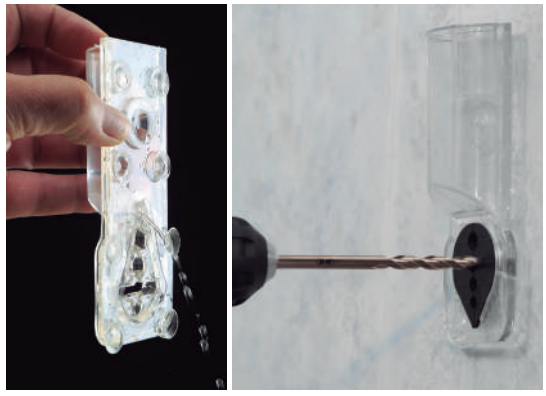


LATTINA DI PARAFFINA LUBRIFICANTE

PACSE
10,54 €

GUIDA DI CENTRAGGIO CON RAFFREDDAMENTO AD ACQUA

R.P.M. RACCOMANDATE		
Ø mm	R.P.M. Max.	R.P.M. Min.
4,0	1000	830
5,0	900	740
6,0	800	650
8,0	600	500
10,0	500	400







CGB
11,63 €

- Guida per perforazione di fori 5-6-7-8-10-12-15-35 mm

PUNTA IN DIAMANTE SALDATO A VUOTO PER PORCELLANICO

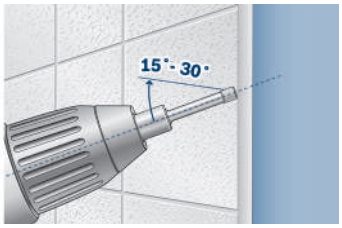
Ref. **CPH**

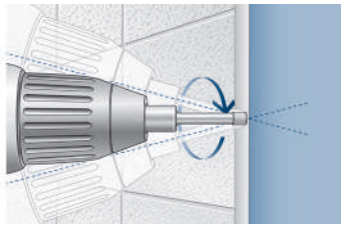
Serie Diamond

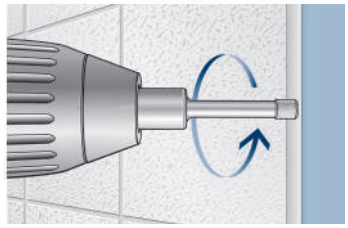






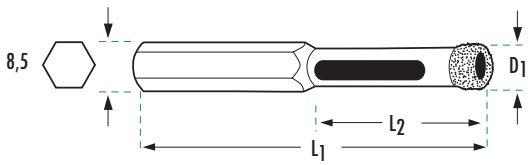






- Forare sempre in modalità a rotazione.
- Refrigerare con abbondante acqua durante la perforazione.
- La punta CPH perfora porcellanico sempre che sia garantita la presenza d'acqua tra il diamante e il pezzo da lavorare.
- Non introdurre mai in acqua la punta CPH dopo la perforazione. Una volta raggiunte alte temperature, lasciare raffreddare all'aria.
- Iniziare a forare con la punta inclinata (angolo da 15º a 30º) e raddrizzarla progressivamente. Le guide non sono necessarie.
- Perforare il porcellanico realizzando dolci movimenti rotatori, per facilitare l'estrazione del nucleo.
- Prima di finalizzare il lavoro, smetta di esercitare pressione per evitare che il nuceo di perforazione si attacchi all'interno della corona.
- Estrarre il nucleo di perforazione dall'apertura laterale.
- Maggior numero di perforazioni in meno tempo e con meno sforzo.





	D1 mm	⬡	L1x L2 mm	CPH €
CPH05	5,0	8,5	55 x 25	**18,54**
CPH06	6,0	8,5	55 x 25	**19,89**
CPH08	8,0	8,5	55 x 25	**26,06**
CPH10	10,0	8,5	55 x 25	**27,50**
CPH12	12,0	8,5	55 x 25	**33,93**
CPH14	14,0	8,5	55 x 25	**38,48**



REFERENZA	**CPH9328**
Nº PUNTE	4
CONTENUTO	Ø 5 - 6 - 8 -10 mm
P.V.P. €	**87,62**

GUIDA DI CENTRAGGIO CON RAFFREDDAMENTO AD ACQUA





CGB
11,63 €

- Guida per perforazione di fori 5-6-7-8-10-12-15-35 mm





R.P.M. RACCOMANDATE		
Ø mm	R.P.M. Max.	R.P.M. Min.
4,0	1000	830
5,0	900	740
6,0	800	650
8,0	600	500
10,0	500	400

PUNTA IN DIAMANTE SALDATO A VUOTO PER PORCELLANICO

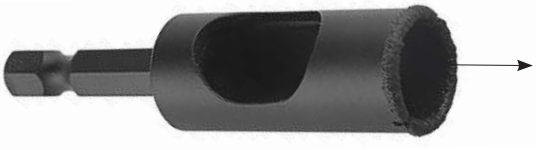
NEW

Ref. CAH

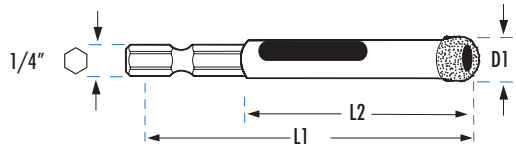


Serie Diamond





Ampia fessura di estrazione del nucleo



- Forare sempre in modalità a rotazione.
- Refrigerare con abbondante acqua durante la perforazione.
- La punta CPH perfora porcellanico sempre che sia garantita la presenza d'acqua tra il diamante e il pezzo da lavorare.
- Non introdurre mai in acqua la punta CPH dopo la perforazione. Una volta raggiunte alte temperature, lasciare raffreddare all'aria.
- Iniziare a forare con la punta inclinata (angolo da 15º a 30º) e raddrizzarla progressivamente. Le guide non sono necessarie.
- Perforare il porcellanico realizzando dolci movimenti rotatori, per facilitare l'estrazione del nucleo.
- Prima di finalizzare il lavoro, smetta di esercitare pressione per evitare che il nuceo di perforazione si attacchi all'interno della corona.
- Estrarre il nucleo di perforazione dall'apertura laterale.
- Maggior numero di perforazioni in meno tempo e con meno sforzo.

	D1 mm	⬡	L1x L2 mm	CAH €
CAH05	5,0	1/4	65 x 30	**19,05**
CAH06	6,0	1/4	65 x 30	**20,42**
CAH07	7,0	1/4	65 x 30	**23,25**
CAH08	8,0	1/4	65 x 30	**26,76**
CAH10	10,0	1/4	65 x 30	**28,23**
CAH12	12,0	1/4	65 x 30	**34,83**
CAH14	14,0	1/4	65 x 30	**39,51**
CAH15	15,0	1/4	65 x 30	**59,81**
CAH16	16,0	1/4	65 x 30	**62,36**
CAH18	18,0	1/4	65 x 30	**64,25**
CAH20	20,0	1/4	65 x 30	**65,45**
CAH22	22,0	1/4	65 x 30	**71,94**
CAH25	25,0	1/4	65 x 30	**76,41**
CAH28	28,0	1/4	65 x 30	**77,36**
CAH30	30,0	1/4	65 x 30	**83,09**
CAH32	32,0	1/4	65 x 30	**89,36**
CAH35	35,0	1/4	65 x 30	**96,36**

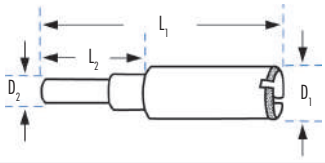
PUNTA DIAMANTATA A CORONA PER CRISTALLO

Ref. BC70..B



Serie Diamond





- Per le caratteristiche e i diametri (piccoli) di queste corone, è importante tenere in considerazione che non dispongono di punta guida interna, quindi per i trapani portatili sarà necessario realizzare una guida esterna come in figura e per le macchine stazionarie sarà richiesta rigità nel pezzo e nella macchina.





	D1 mm	D2 mm	L2 mm	L1 mm	BC70..B €
BC700400B	4,0	6,0	25	45	**8,83**
BC700500B	5,0	6,0	25	45	**10,73**
BC700600B	6,0	6,0	30	66	**12,54**
BC700700B	7,0	6,0	30	66	**14,33**
BC700800B	8,0	6,0	30	66	**15,35**
BC700900B	9,0	6,0	30	66	**17,11**
BC701000B	10,0	6,0	30	66	**18,91**
BC701200B	12,0	6,5	20	66	**21,02**
BC701400B	14,0	6,5	20	66	**22,77**
BC701500B	15,0	6,5	20	66	**23,33**
BC701600B	16,0	6,5	20	66	**24,74**
BC701800B	18,0	6,5	20	66	**25,13**
BC702000B	20,0	6,5	20	66	**25,54**

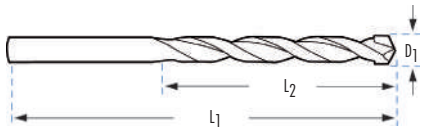
PUNTA PER MURO SERIE STANDARD CON TESTA IN METALLO DURO

Ref. BW1

★★ | DIN 8039 | 12,70 | Serie Standard



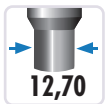






	SERIE CORTA			SERIE LUNGA					
				150 mm			200 mm		
D1 mm		L1x L2 mm	€		L1x L2 mm	€		L1x L2 mm	€
3	BW103	70x30	1,17						
4	BW104	70x30	1,20						
5	BW105	85x45	1,28	BW105X150	150x80	2,71			
6	BW106	100x50	1,40	BW106X150	150x80	2,71	BW106X200	200x125	5,17
7	BW107	100x50	1,71	BW107X150	150x80	3,16			
8	BW108	120x70	1,83	BW108X150	150x80	3,49	BW108X200	200x125	5,17
9	BW109	120x70	2,17	BW109X150	150x80	4,06			
10	BW110	120x70	2,31	BW110X150	150x80	4,56	BW110X200	200x125	6,51
11	BW111	150x80	3,22						
12	BW112	150x80	3,96				BW112X200	200x125	7,14
13	BW113*	150x80	4,55						
14	BW114*	150x80	5,55				BW114X200*	200x125	9,47
15	BW115*	160x80	7,03						
16	BW116*	160x80	8,12				BW116X200*	200x125	13,10
18	BW118*	160x80	9,72				BW118X200*	200x125	14,95
20	BW120*	160x80	11,85						
22	BW122*	160x80	14,71						
24	BW124*	160x80	19,24						
25	BW125*	160x80	20,09						
30	BW130*	160x80	36,40						

SERIE EXTRA LUNGA									
		300 mm			400 mm			600 mm	
D1 mm		L1x L2 mm	€		L1x L2 mm	€		L1x L2 mm	€
6	BW106X300	300x210	6,20	BW106X400	400x280	7,97			
8	BW108X300	300x210	6,20	BW108X400	400x280	8,78			
10	BW110X300	300x210	7,37	BW110X400	400x280	9,43	BW110X600	600x480	11,53
12	BW112X300	300x210	8,41	BW112X400	400x280	11,56	BW112X600	600x480	14,50
13	BW113X300*	300x210	9,95	BW113X400*	400x280	12,01	BW113X600*	600x480	15,29
14	BW114X300*	300x210	10,23	BW114X400*	400x280	12,96	BW114X600*	600x480	17,32
15	BW115X300*	300x210	13,77	BW115X400*	400x280	16,10	BW115X600*	600x480	20,59
16	BW116X300*	300x210	13,72	BW116X400*	400x280	16,79	BW116X600*	600x480	22,86
18	BW118X300*	300x210	15,57	BW118X400*	400x280	19,03	BW118X600*	600x480	26,56
20	BW120X300*	300x210	18,63	BW120X400*	400x280	22,19	BW120X600*	600x480	31,14
22	BW122X300*	300x210	23,62	BW122X400*	400x280	32,19	BW122X600*	600x480	37,59
24	BW124X300*	300x210	35,13	BW124X400*	400x280	37,06	BW124X600*	600x480	48,52
25	BW125X300*	300x210	35,52	BW125X400*	400x280	39,56	BW125X600*	600x480	49,04

* 

Tutte le punte superiori a 13 mm hanno il codolo ridotto.

ASTUCCI DI PUNTE PER MURO SERIE STANDARD CON TESTA IN METALLO DURO

Ref. BW1

★★ | DIN 8039 | 

Serie Standard







REFERENCIA	**BW19325**	**BW19328**	**BW19318**
Nº PUNTE	4	4	5
QUALITÀ	STANDARD	STANDARD	STANDARD
CONTENUTO	Ø 4 - 5 - 6 - 8 mm	Ø 5 - 6 - 8 - 10 mm	Ø 3 - 4 - 5 - 6 - 8 mm
P.V.P. €	**12,16**	**15,40**	**13,40**







REFERENCIA	**BW19327**	**BW19434**	**BW19319**
Nº PUNTE	5	7	8
QUALITÀ	STANDARD	STANDARD	STANDARD
CONTENUTO	Ø 4 - 5 - 6 - 8- 10 mm	Ø 4 - 5 - 6 - 7 - 8 - 10 - 12 mm	Ø 3 - 4 - 5 - 6 - 7 - 8 - 9 -10 mm
P.V.P. €	**16,59**	**25,42**	**18,90**

R.P.M. RACCOMANDATE

Materiali dolci	Ø 3	Ø 5	Ø 8	Ø 10	Ø 12	Materiali duri	Ø 3	Ø 5	Ø 8	Ø 10	Ø 12
Mattone Pietra arenaria Gesso Lamiera ondulata di fibrocemento	2800	1750	1150	1000	800	Marmo Calcestruzzo Ardesia Pietra calcarea Granito	1800	1000	1000	600	500

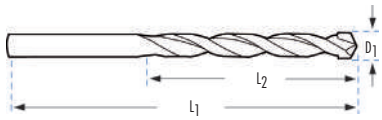
PUNTA PER MURO SERIE PROFESSIONALE CON TESTA IN METALLO DURO

Ref. **BW6**

★★ ★★ | DIN 8039 | 12,70 | Serie Professionale









	SERIE CORTA			SERIE LUNGA					
				150 mm			200 mm		
D1 mm		L1x L2 mm	€		L1x L2 mm	€		L1x L2 mm	€
3,0	BW603	70x30	2,26						
3,5	BW60350	70x30	3,58						
4,0	BW604	70x30	2,26						
4,5	BW60450	85x45	3,60						
5,0	BW605	85x45	2,70	BW605X150	150x80	4,03			
5,5	BW60550	85x45	3,68						
6,0	BW606	100x50	2,77	BW606X150	150x80	4,57	BW606X200	200x140	5,87
6,5	BW60650	100x50	3,95						
7,0	BW607	100x50	3,00	BW607X150	150x80	5,48			
8,0	BW608	120x70	3,54	BW608X150	150x80	6,50	BW608X200	200x140	6,60
9,0	BW609	120x70	4,75						
10,0	BW610	120x70	5,18	BW610X150	150x80	8,42	BW610X200	200x140	9,14
11,0	BW611	150x80	7,63						
12,0	BW612	150x80	7,69				BW612X200	200x140	11,70
13,0	BW613*	150x80	11,35						
14,0	BW614*	150x80	10,42				BW614X200*	200x140	14,11
15,0	BW615*	160x80	14,66						
16,0	BW616*	160x80	12,50				BW616X200*	200x140	17,55
18,0	BW618*	160x80	17,99				BW618X200*	200x140	21,88
20,0	BW620*	160x80	22,19						
22,0	BW622*	160x80	30,58						
24,0	BW624*	160x80	45,61						
25,0	BW625*	160x80	46,72						

SERIE EXTRA LUNGA

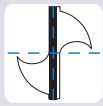
	300 mm			400 mm			600 mm			1000 mm		
D1 mm		L1x L2 mm	€		L1x L2 mm	€		L1x L2 mm	€		L1x L2 mm	€
6,0	BW606X300	300x200	9,21	BW606X400	400x300	9,76	BW606X600	600x500	17,48			
8,0	BW608X300	300x200	10,26	BW608X400	400x300	10,92	BW608X600	600x500	21,86			
10,0	BW610X300	300x200	11,42	BW610X400	400x300	15,05	BW610X600	600x500	23,33			
12,0	BW612X300	300x200	14,73	BW612X400	400x300	15,70	BW612X600	600x500	29,34	BW612X1000	1000x900	102,57
13,0	BW613X300*	300x200	17,25	BW613X400*	400x300	18,62				BW613X1000*	1000x900	108,29
14,0	BW614X300*	300x200	17,89	BW614X400*	400x300	18,43	BW614X600*	600x500	35,00	BW614X1000*	1000x900	111,37
15,0	BW615X300*	300x200	20,60	BW615X400*	400x300	22,95	BW615X600*	600x500	42,37	BW615X1000*	1000x900	116,58
16,0	BW616X300*	300x200	21,65	BW616X400*	400x300	22,95	BW616X600*	600x500	42,86	BW616X1000*	1000x900	130,68
17,0										BW617X1000*	1000x900	140,37
18,0				BW618X400*	400x300	34,59	BW618X600*	600x500	53,72	BW618X1000*	1000x900	146,41
20,0	BW620X300*	300x200	37,47**	BW620X400*	400x300	41,16	BW620X600*	600x500	62,96	BW620X1000*	1000x900	150,06
22,0				BW622X400*	400x300	52,17	BW622X600*	600x500	75,01	BW622X1000*	1000x900	150,88
24,0	BW624X300*	300x200	47,58**	BW624X400*	400x300	62,79	BW624X600*	600x500	91,90	BW624X1000*	1000x900	180,72
25,0	BW625X300*	300x200	51,02**	BW625X400*	400x300	67,39	BW625X600*	600x500	98,91	BW625X1000*	1000x900	190,41
26,0										BW626X1000*	1000x900	197,86
28,0										BW628X1000*	1000x900	205,31
30,0										BW630X1000*	1000x900	215,77

* 12,70 Tutte le punte superiori a 13 mm hanno il codolo ridotto.

**Fino ad esaurimento scorte.

ASTUCCI DI PUNTE PER MURO SERIE PROFESSIONALE CON TESTA IN METALLO DURO

Ref. BW6

★★ ★★ | DIN 8039 |  |  |  | 

Serie Professionale



REFERENZA	BW69325
Nº PUNTE	4
QUALITÀ	SERIE PROFESSIONALE
CONTENUTO	Ø 4 - 5 - 6 - 8 mm
P.V.P. €	17,34



REFERENZA	BW69328
Nº PUNTE	4
QUALITÀ	SERIE PROFESSIONALE
CONTENUTO	Ø 5 - 6 - 8 - 10 mm
P.V.P. €	21,74



REFERENZA	BW69318
Nº PUNTE	5
QUALITÀ	SERIE PROFESSIONALE
CONTENUTO	Ø 3 - 4 - 5 - 6 - 8 mm
P.V.P. €	19,53



REFERENZA	BW69327
Nº PUNTE	5
QUALITÀ	SERIE PROFESSIONALE
CONTENUTO	Ø 4 - 5 - 6 - 8 - 10 mm
P.V.P. €	22,36



REFERENZA	BW69434
Nº PUNTE	7
QUALITÀ	SERIE PROFESSIONALE
CONTENUTO	Ø 4 -5 -6 -7 -8 -10 -12 mm
P.V.P. €	36,34



REFERENZA	BW69319
Nº PUNTE	8
QUALITÀ	SERIE PROFESSIONALE
CONTENUTO	Ø 3 -4 -5 -6 -7 -8 -9-10 mm
P.V.P. €	34,21

R.P.M. RACCOMANDATE

Materiali dolci	Ø 3	Ø 5	Ø 8	Ø 10	Ø 12	Materiali duri	Ø 3	Ø 5	Ø 8	Ø 10	Ø 12
Mattone Pietra arenaria Gesso Lamiera ondulata di fibrocemento	3200	1900	1300	1100	900	Marmo Calcestruzzo Ardesia Pietra calcarea Granito	2100	1200	900	700	600

PUNTA PER CALCESTRUZZO SERIE EXTRA PROFESSIONALE CON TESTA IN METALLO DURO

Ref. **BW16**

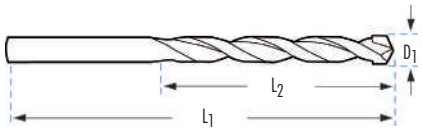


Serie Extra Professionale

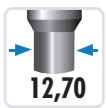








	SERIE CORTA			SERIE LUNGA			SERIE EXTRA LUNGA					
					150 mm			200 mm			400 mm	
D1 mm		L1x L2 mm	€		L1x L2 mm	€		L1x L2 mm	€		L1x L2 mm	€
4,0	BW1604	75x38	**2,80**									
5,0	BW1605	85x45	**3,36**	BW1605X150	150x100	**4,89**						
6,0	BW1606	100x55	**3,42**	BW1606X150	150x100	**5,54**	BW1606X200	200x150	**7,14**			
7,0	BW1607	100x55	**3,72**									
8,0	BW1608	120x70	**4,38**	BW1608X150	150x100	**7,89**	BW1608X200	200x150	**8,01**			
9,0	BW1609	120x70	**5,87**									
10,0	BW1610	120x70	**6,42**	BW1610X150	150x100	**10,22**	BW1610X200	200x150	**11,11**			
12,0	BW1612	150x80	**9,51**				BW1612X200	200x150	**14,23**			
14,0	BW1614*	150x80	**13,91**				BW1614X200*	200x150	**18,47**			
16,0	BW1616*	150x80	**16,66**				BW1616X200*	200x150	**22,97**			
18,0	BW1618*	160x80	**23,98**							BW1618X400*	400x350	**45,24**
20,0	BW1620*	160x80	**29,58**							BW1620X400*	400x350	**53,86**

* 

Tutte le punte superiori a 13 mm hanno il codolo ridotto.



REFERENZA	BW169325	BW169327	BW169434
Nº PUNTE	4	5	7
QUALITÀ	EXTRA PROFESSIONALE	EXTRA PROFESSIONALE	EXTRA PROFESSIONALE
CONTENUTO	Ø 4 - 5 - 6 - 8 mm	Ø 4 - 5 - 6 - 8 - 10 mm	Ø 4 - 5 - 6 - 7 - 8 - 10 -12 mm
P.V.P. €	21,07	27,17	44,15

PUNTA PER MURO A 3 TAGLIENTI DELTA 3 PLUS

Ref. BW35



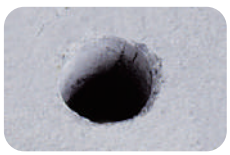
Delta 3 plus



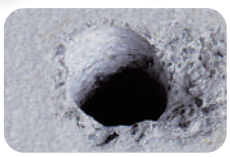




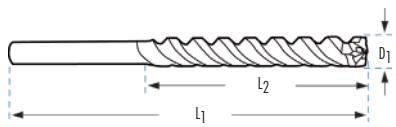
- Lavorare sempre in percussione.
- Geometria innovativa della punta. Placca Monobloco a 3 taglienti.
- Orifizi più centrati, rotondi e precisi.
- 3 canali di evacuazione. Migliorano la vita utile del utensili.
- Massima riduzione dell'usura dalla punta.
- Minore sforzo, maggiore prestazione.



Delta 3 plus



STANDARD



	SERIE CORTA			SERIE LUNGA		
					200 mm	
D1 mm		L1x L2 mm	€		L1x L2 mm	€
5	BW3505	90x50	**5,38**	BW3505X150	150x100	**9,55**
6	BW3506	100x60	**5,44**	BW3506X150	150x100	**9,73**
8	BW3508	120x80	**6,71**	BW3508X200	200x150	**11,89**
10	BW3510	120x80	**8,93**	BW3510X200	200x150	**15,77**
12	BW3512	130x90	**12,58**	BW3512X200	200x150	**17,16**





REFERENZA	**BW359328**
Nº PUNTE	4
QUALITÀ	DELTA 3 PLUS
CONTENUTO	Ø 5 - 6 - 8 - 10 mm
P.V.P. €	**26,47**

PUNTA MULTIUSO CON TESTA IN METALLO DURO

Ref. **BW8**

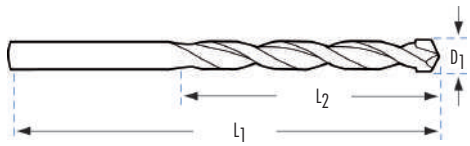
★★
★★

DIN 8039

Serie Multiuso Professionale







	D1 mm	L1x L2 mm	BW8 €
BW804	4	70 x 30	**4,41**
BW805	5	85 x 45	**4,46**
BW806	6	100 x 50	**4,71**
BW806X150	6	150 x 50	**10,36**
BW807	7	100 x 50	**5,88**
BW808	8	120 x 70	**5,49**
BW808X150	8	150 x 70	**12,36**
BW809	9	120 x 70	**7,40**
BW810	10	120 x 70	**8,77**
BW810X150	10	150 x 70	**18,12**
BW812	12	150 x 80	**10,88**











REFERENZA	**BW89325**	**BW89328**	**BW89327**	**BW89434**
Nº PUNTE	4	4	5	7
QUALITÀ	MULTIUSO	MULTIUSO	MULTIUSO	MULTIUSO
CONTENUTO	Ø 4 - 5 - 6 - 8 mm	Ø 5 - 6 - 8 - 10 mm	Ø 4 - 5 - 6 - 8 - 10 mm	Ø 4 - 5 - 6 - 7 - 8 - 10 - 12 mm
P.V.P. €	**22,93**	**29,44**	**32,04**	**51,65**

PUNTA PER MARTELLO SDS PLUS CON ARRESTO PRE-FORO DE ANCORAGGIO METALLICO

Ref. WT









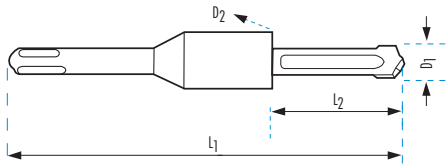


- Placca in metallo duro monoblocco con punta autocentrante.
- Centraggio di foro, evita l'effetto scorrevole. Maggiore precisione.
- Canale di estrazione diritto. In lunghezza breve migliora il volume di estrazione.
- Arresto di profondità, controllo della lunghezza del foro.
- L'arresto di profondità consente una perforazione ripetitiva con precisione totale.
- Alta precisione, migliore qualità del foro.

APPLICAZIONI:

- Speciale per lavori con perforazione ripetitiva che richiedono il controllo della profondità.
- Specifico per la realizzazione di pre-fori per il posizionamento di ancoraggi metallici in calcestruzzo solido. (Passello ad encastro)
- Consente il montaggio in serie di sistemi di fissaggio che richiedono una profondità del foro precisa e regolare.
- Solitamente utilizzato per l'installazione di sedili per stadio, canaline per cavi, sistemi ventilazione ecc ...

NOTA IMPORTANTE:
Il materiale da forare deve essere solido, cemento armato, cemento, pietra, mattoni pieni. Se il pre-foro è realizzato in un materiale alleggerito, l'ancoraggio installato in seguito non supporterà correttamente gli sforzi.



	D1 mm	L1 mm	D2 mm	L2 mm	Anclaje Roscado	WT €
WT08x27	8	103	16	27	M6	24,98
WT10x33	10	103	22	33	M8	28,12
WT12x43	12	113	22	43	M10	30,87
WT15x54	15	128	22	54	M12	39,61





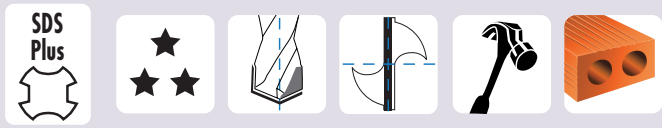
- Ancora filettata metallica, tassello. Materiali solidi speciali.

ANCORAGGI METALLICI FILETTATI

FILETTO INTERNO	Ø foro precedente (mm)	lunghezza ancoraggio (mm)
M6	8	25
M8	10	30
M10	12	40
M12	15	50

PUNTA PER TRAPANO A MARTELLO SDS-PLUS

Ref. W08

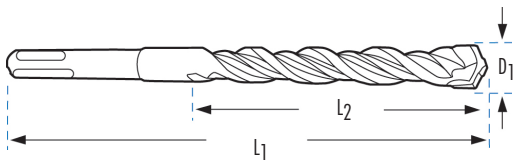






- Geometria autocentrante della testa in metallo duro.
- Maggiore velocità e durabilità.
- Spirale a 4 canali per ottimizzare l'estrazione dei detriti.
- Minima frizione grazie alla testa più snella.
- Vita utile superiore grazie alla ridotta frizione nella testa e nei canali.
- Maggiore rapidità nell'estrazione della polvere di calcestruzzo.
- Indicata per tutti i martelli con attacco SDS PLUS.

APPLICAZIONI:
- Calcestruzzi e materiali per edilizia, marmo, granito, ardesia, pietra naturale.



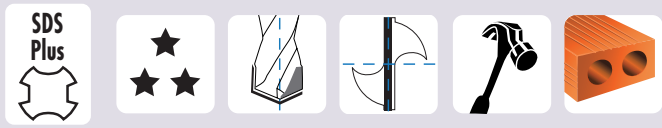


W08

D1 mm	L1 x L2 (mm) 110x50 €	160x100 €	200x150 €	250x200 €	300x250 €	450x400 €	600x550 €	800x750 €	1000x950 €	1400x1350 €
3,00	5,17	5,17								
3,50	5,23									
4,00	5,31	5,93								
5,00	4,38	5,09	8,63	10,90	11,61	15,90				
5,50	4,98	5,88	9,62	10,53						
6,00	4,51	4,98	7,08	11,23	14,07	17,43				
6,50	5,54	6,01	11,47	12,41	15,27	18,57				
7,00	5,77	6,36	9,13			24,32				
8,00	5,09	5,34	6,93	8,23	13,22	19,18	31,16			
9,00		7,41	9,06	11,03						
10,00	6,07	6,54	8,23	9,99	11,82	20,19	31,16	61,82	80,76	
11,00		8,51	9,49	12,34						
12,00		7,54	9,22	11,32	16,35	21,08	31,47		77,92	
13,00		10,23	11,71	15,68						
14,00		10,62	13,79	15,17	18,70	24,72	36,15		87,05	
15,00		14,97		18,32		30,10				
16,00			17,26	18,23	20,02	29,39	39,49	59,94	104,02	161,13
17,00			24,38							
18,00			25,95		30,55	35,33	56,11		108,25	171,51
19,00			30,02		37,16					
20,00			30,17		35,29	45,72	63,34		114,36	191,10
22,00				39,25		50,63	70,35		119,92	223,25
24,00				50,12		62,87			148,14	
25,00				50,12		67,07	80,60		150,33	250,21
26,00				65,18		82,02				275,23
28,00				104,15		111,94	133,49		170,25	295,96
30,00				124,75		143,00	180,45		235,60	

PUNTA PER TRAPANO A MARTELLO SDS-PLUS

Ref. W08





ASTUCCI DI 10 PUNTE W08



ø mm	L1 x L2 (mm) 110x50 €	160x100 €	200x150 €
			10 U.
5,0	39,51	49,67	
6,0	40,65	46,87	69,05
8,0	48,12	51,68	65,19
10,0	54,84	64,05	77,71
12,0		71,75	88,40

Ex. W0806X110-10

ASTUCCI DI 50 PUNTE W08



ø mm	L1 x L2 (mm) 160x100 €
	50 U.
6,0	219,41
8,0	230,07

Ex. W0806X160-50






REFERENZA	W08D9358	W08D9412	W08D9319	W08D9320
Nº PUNTE	4	6	4	5
CONTENUTO	Ø 5 -6 -8 -10 x 110 mm	Ø 5-6-8x110 mm Ø 6-8-10x160 mm	Ø 5 -6 -8 -10 x 160 mm	Ø 5-6-x110 mm Ø 6-8-10x160 mm
P.V.P. €	26,63	38,96	30,82	34,67




REFERENZA	W08D0080	W08D0708
Nº PUNTE	7	6
CONTENUTO	Ø 5-6-8 x 110 mm Ø 6-8-10-12 x 160 mm	Ø 6 x 110 mm Ø 6-8-10-12-14 x 160 mm
P.V.P. €	47,80	47,19

PUNTA PER TRAPANO A MARTELLO SDS-PLUS A DOPPIO CANALE

Ref. W05

SDS Plus

Serie Professionale

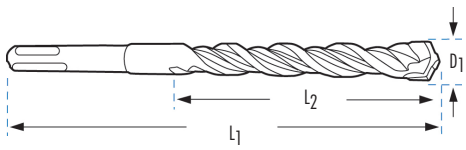




- Geometria autocentrante della testa in metallo duro, ad alto rendimento.
- Maggiore velocità e durabilità.
- Spirale a 4 canali per ottimizzare l'estrazione dei detriti.
- Minima frizione grazie alla testa più snella.
- Vita utile superiore grazie alla ridotta frizione nella testa e nei canali.
- Maggiore rapidità nell'estrazione della polvere di calcestruzzo.
- Indicata per tutti i martelli con attacco SDS PLUS.

APPLICAZIONI:

- Calcestruzzi e materiali per edilizia, marmo, granito, ardesia, pietra naturale.





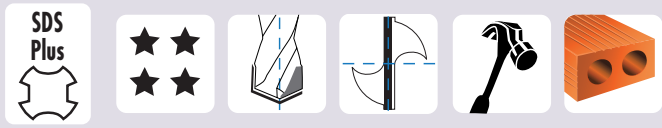
W05

D1 mm	L1 x L2 (mm) 110x50 €	160x100 €	200x150 €	250x200 €	300x250 €	400x350 €	450x400 €	600x550 €	800x750 €	1000x950 €
3,00		20,21 *								
3,50	14,55 *	16,10 *								
4,00	7,13	12,14								
5,00	5,84	7,36	11,59	14,33	17,65		39,86 *			
5,50	6,83	7,91	13,88	19,37 *						
6,00	6,02	6,93	10,23	15,49	16,98		34,45			
6,50	7,67	8,48	13,04	19,08						
7,00	7,67	8,48	13,32	18,95	23,96		34,14 *			
8,00	7,50	7,63	9,66	14,03	20,63	26,36	27,56	47,95		107,77
9,00		9,78	12,49	15,51 *						
9,50		12,04								
10,00	8,03	8,83	11,49	14,55	20,64	28,25	30,18	44,32		116,21
11,00		11,72	14,25	16,04 *	22,45					
12,00		10,62	13,08	15,77	22,77	30,02	28,96	43,42		109,57
13,00		16,77	21,80	22,46	24,96	27,25	36,36			
14,00		18,52	18,85	21,07	28,13	30,25	33,82	50,24		119,07
15,00		19,35	23,12	25,06	36,25		41,18 *			
16,00		21,21	23,60	25,96	29,38	36,36	40,22	54,01		135,19
17,00			31,69 *		57,67 *		62,75 *			
18,00			33,99	35,11	45,55	45,36	45,92	74,32		161,94
19,00			38,26 *		48,30 *		52,65 *			
20,00			38,65	39,86	47,23	55,36	59,42	82,33		170,45
22,00			44,55	50,66	55,25	61,25	65,79	107,01		175,18
24,00			56,52	61,08	65,36	75,75	81,70	106,36		
25,00			59,66	74,10	73,33	82,36	79,73	109,36		191,89
26,00				91,07 *	83,66		105,90	118,11	135,37 *	
28,00					165,36		175,36			
30,00							222,25			

*Fino ad esaurimento scorte.

PUNTA PER TRAPANO A MARTELLO SDS-PLUS A DOPPIO CANALE

Ref. W05





Serie Professionale

ASTUCCI DI 10 PUNTE W05



10 U.

ø mm	L1 x L2 (mm) 110x50 €	160x100 €	210x150 €	250x200 €	300x250 €
4,0	64,17				
5,0	52,56	66,24			
6,0	54,18	62,37	92,07	139,41	152,82
7,0		76,32			
8,0	67,50	68,67	86,94	126,27	185,67
10,0	72,27	79,47	103,41	130,95	185,76
12,0		95,58	117,72	141,93	204,93
14,0		166,70	169,65	189,63	253,14
16,0		190,89	212,40	233,64	264,42

Ex. W0506X110-10

ASTUCCI DI 50 PUNTE W05



50 U.

ø mm	L1 x L2 (mm) 110x50 €	160x100 €	200x150 €	250x200 €	300x250 €
4,0	303,03				
5,0	248,20	312,80			
6,0	255,85	294,53	434,78	658,33	721,65
7,0		360,40			
8,0	318,75	324,28	410,55	596,28	876,78
10,0		375,28	488,33	618,38	877,20
12,0		451,35	555,90	670,23	967,73
14,0		787,19	801,13	895,48	1.195,40

Ex. W0506X160-50









REFERENZA	**W05D9358**	**W05D9412**	**W05D9319**	**W05D9320**
Nº PUNTE	4	6	4	5
CONTENUTO	Ø 5 - 6 - 8 - 10 x 110 mm	Ø 5 - 6 - 8 x 110 mm Ø 6 - 8 - 10 x 160 mm	Ø 5 - 6 - 8 - 10 x 160 mm	Ø 5 - 6 x 110 mm Ø 6 - 8 - 10 x 160 mm
P.V.P. €	33,02	51,80	39,75	42,99





REFERENZA	**W05D0080**	**W05D0708**
Nº PUNTE	7	6
CONTENUTO	Ø 5 - 6 - 8 x 110 mm Ø 6 - 8 - 10 - 12 x 160 mm	Ø 6 x 110 mm Ø 6 - 8 - 10 - 12 - 14 x 160 mm
P.V.P. €	63,16	65,58

PUNTA PER TRAPANO A MARTELLO SDS-PLUS CON TESTA A 4 TAGLIENTI (CENTRAGGIO OTTIMIZZATO)

Ref. W55



Serie Extra Professionale

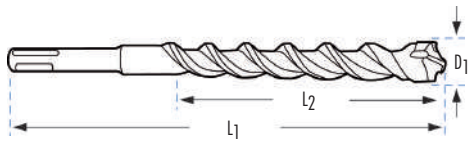




4 TAGLIENTI

- 4 taglienti in carburo ad alto rendimento.
- Minore sforzo nella perforazione con maggior rendimento della punta.
- Migliore centraggio della punta, fori più rotondi e miglior finitura.
- Maggiore durabilità, minore usura e riduzione massimale della frizione.
- Indicata per tutti i martelli con attacco SDS PLUS.

APPLICAZIONI:
- Calcestruzzi e materiali per edilizia, marmo, granito, ardesia, pietra naturale.



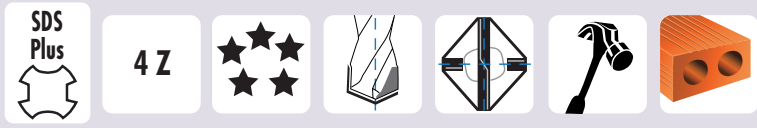


W55

D1 mm	L1 x L2 mm 110x50 €	160x100 €	210x160 €	250x200 €	300x250 €	350X300 €	460x410 €	600x550 €	800x750 €	1000x950 €
5,0	6,37	7,95	11,83	14,67	19,25					
5,5	9,06	11,29	16,93	19,44						
6,0	6,56	7,50	11,05	15,94	17,31		35,23			
6,5	8,13	9,31	13,14	19,92	19,99		38,49			
7,0	11,22	11,88	18,11	20,18			40,92			
8,0	8,27	7,87	10,43	15,31	21,23		29,56	51,84		
9,0		11,95	17,01							
10,0	8,84	10,25	12,43	15,74	20,90	32,98	31,08	47,54	64,78	120,91
11,0		14,55	19,01	22,34						
12,0		11,58	14,26	17,20	23,88	31,92	32,35	46,95		111,78
13,0		17,05	22,14	25,21						
14,0		18,71	20,55	22,97	26,33	39,55	41,08	54,34		121,47
15,0		24,11		32,58			52,33			
16,0			35,11	28,08	39,73	44,22	45,97	58,41	74,47	137,91
17,0			38,62		43,70					
18,0			40,04	40,66	50,40		52,49	80,36		165,20
19,0			46,35		63,34		70,48			
20,0			42,51	44,90	64,78		67,95	89,01		173,87
22,0				48,57			71,18	122,51		189,21
24,0				57,12			88,38	127,71		202,12
25,0				94,28			91,00	136,20		195,75
26,0				152,76			163,82			
28,0				162,18			172,55	176,82		202,12
30,0				167,43			191,90	196,86		231,83
32,0				209,88			239,76			
35,0				225,92			275,91			
38,0				247,25			318,30			
40,0				290,86			363,03			

PUNTA PER TRAPANO A MARTELLO SDS-PLUS CON TESTA A 4 TAGLIENTI (CENTRAGGIO OTTIMIZZATO)

Ref. W55





Serie Extra Professionale

ASTUCCI DI 10 PUNTE W55



Ø mm	L1 x L2 (mm) 110x50 €	160x100 €	210x150 €
			10 U.
5,0	58,61	73,14	
6,0	60,36	69,04	101,62
8,0	76,07	72,36	95,96
10,0	81,33	94,30	114,39
12,0		106,49	131,16

Ex. W5506X110-10

ASTUCCI DI 50 PUNTE W55



Ø mm	L1 x L2 (mm) 160x100 €
	50 U.
6,0	345,22
8,0	361,80

Ex. W5506X160-50









REFERENZA	**W55D9358**	**W55D9412**	**W55D9319**	**W55D9320**
Nº PUNTE	4	6	4	5
QUALITÀ	EXTRA PROFESSIONALE	EXTRA PROFESSIONALE	EXTRA PROFESSIONALE	EXTRA PROFESSIONALE
CONTENUTO	Ø 5 -6 -8 -10 x 110 mm	Ø 5-6-8x110 mm Ø 6-8-10x160 mm	Ø 5 -6 -8 -10 x 160 mm	Ø 5-6-x110 mm Ø 6-8-10x160 mm
P.V.P. €	**38,93**	**54,98**	**41,71**	**48,17**





REFERENZA	**W55D0080**	**W55D0708**
Nº PUNTE	7	6
QUALITÀ	EXTRA PROFESSIONALE	EXTRA PROFESSIONALE
CONTENUTO	Ø 5-6-8 x 110 mm Ø 6-8-10-12 x 160 mm	Ø 6 x 110 mm Ø 6-8-10-12-14 x 160 mm
P.V.P. €	**67,50**	**70,01**

SUPERPUNTA SERIE DELTATOP SDS-PLUS PER CALCESTRUZZO ARMATO, TESTA INTEGRALE IN METALLO DURO 3 TAGLIENTI

Ref. W88





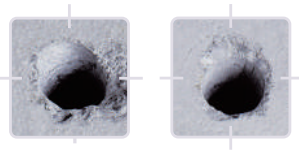
Perforazione calcestruzzo armato. Perfora il tondino del calcestruzzo armato se ha un impatto inferiore al 33% su di esso.
E soprattutto: Rendimento molto superiore a quello delle altre punte. Costo inferiore per foro.

Perforazione di lamiere metalliche. Perfora le lamiere metalliche fino a 1 mm e il calcestruzzo, in una sola operazione.

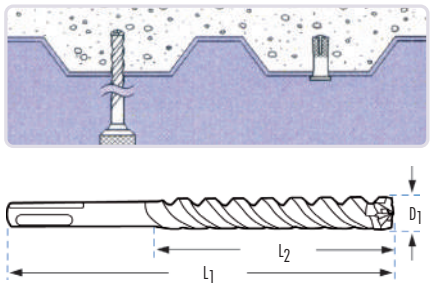
Sistema di saldatura della testa in metallo duro innovativo che permette di forare a forte percussione i calcestruzzi molto duri.

Circolarità del foro. Realizza fori centrati, rotondi e precisi.

APPLICAZIONI:
Granito, marmo, calcestruzzo, pietra naturale, mattone.



Punta Standard Punta DeltaTop





W88

D1 mm	L1 x L2 mm							
	120x50 €	170x100 €	220x150 €	270x200 €	320x250 €	370x300 €	470x400 €	600x550 €
3,00	12,23 *	12,72 *						
4,00	12,23 *	12,72 *						
5,00	12,23	14,56	23,91 *		32,64 *			
6,00	11,87	13,55	22,01	24,39	26,79		45,32 *	
6,50	15,42	16,09	20,31	26,19	30,20			
7,00	15,88 *	17,47 *	21,96 *		30,50			
8,00	15,69	16,39	19,39	24,64	33,07	44,01 *	52,29	56,36
9,00		17,50	21,25		33,01			
10,00	18,37	19,12	22,63	25,28	33,28	42,53 *	51,80	60,02
12,00		21,64	25,28	29,41	34,10		57,09	65,21
13,00		23,07	29,88		41,05			75,75
14,00		31,70	36,51	40,12	42,58	54,03 *	67,74	78,89
15,00		33,11	43,25		45,65			
16,00		40,02	45,69	48,37	52,21		92,33	98,69
18,00			48,01	62,11	77,17		112,11	115,15
20,00			55,21	69,12	87,49		123,68	128,25

*Fino ad esaurimento scorte.





SUPERPUNTA SERIE DELTATOP SDS-PLUS PER CALCESTRUZZO ARMATO, TESTA INTEGRALE IN METALLO DURO 3 TAGLIENTI

Ref. W88





ASTUCCI DI 10 PUNTE W88



Ø mm	L1 x L2 (mm) 120x50 €	170x100 €	220x150 €
			10 U.
5,0	112,53	133,93	
6,0	108,01	121,97	202,50
8,0	144,36	150,80	178,37
10,0	168,96	175,88	208,17
12,0		196,90	232,56

Ex. W8806X110-10

ASTUCCI DI 50 PUNTE W88



Ø mm	L1 x L2 (mm) 170x100 €
	50 U.
6,0	596,29
8,0	737,63

Ex. W8806X160-50









REFERENZA	**W88D9358**	**W88D9412**	**W88D9319**	**W88D9320**
CONTENUTO	(x4) Ø 5-6-8-10 x 110 mm	(x6) Ø 5-6-8x110mm Ø 6-8-10x160 mm	(x4) Ø 5-6-8-10 x 160 mm	(x5) Ø 5-6-x110mm Ø 6-8-10x160mm
P.V.P. €	**63,76**	**95,65**	**69,22**	**81,39**



REFERENZA	**W88D0080**	**W88D0708**
CONTENUTO	(x7) Ø 5-6-8 x 110 mm Ø 6-8-10-12 x 160 mm	(x6) Ø 6 x 110 mm Ø 6 - 8 - 10 - 12 - 14 x 160 mm
P.V.P. €	**118,13**	**122,11**



PUNTA SDS-PLUS PER CALCESTRUZZO ARMATO, TESTA INTEGRALE IN METALLO DURO 4 TAGLIENTI

Ref. W77

SDS Plus | 4 Z





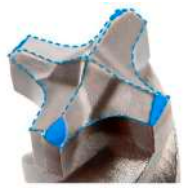
- Testa integrale in metallo duro con 4 taglienti.
- Massimo rendimento e durabiltà nel calcestruzzo armato.
- La miglior punta sul mercato per perforare velocemente e facilmente il calcestruzzo armato e ad alta resistenza.
- Punta con attacco per trapani SDS Plus.
- I detriti si estraggono con maggior velocità e in maniera più fluida grazie ai suoi 4 canali.
- APPLICAZIONI: Cemento armato, calcestruzzo e muratura.

TESTA INTEGRALE IN METALLO DURO CON 4 TAGLIENTI

Eccezionale resistenza agli impatti. Punta progettata specialmente per calcestruzzo armato.



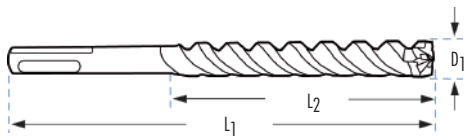
Testa autocentrante con forma di piramide a 90º, permette la realizzazione di fori perfettamente centrati.



Design specifico ad altro rendimento con 4 canali che aumentano il volume dell'estrazione, diminuendone l'usura.



Segni di usura laterale





W77

D1 mm	L1 x L2 mm 115x50 €	165x100 €	215x150 €	250x200 €	265x200 €	315x250 €	365x300 €	450x400 €	465x400 €	600x550 €	1000x950 €
3,50	12,13	13,65									
4,00	13,17	13,79									
5,00	11,88	14,15	23,86		24,08	29,97			41,70		
5,50	13,31	14,99			24,49	33,32			45,05		
6,00	11,88	12,97	19,47		21,71	25,47			41,70		
6,50	15,40	16,91	19,92		23,20	28,01			55,42		
7,00	16,24	17,76	20,60		26,67						
8,00	15,40	15,57	18,58		23,79	30,39	43,86		48,24		
9,00		15,57	20,96								
10,00	18,08	18,34	20,67		24,27	31,95	44,79		50,64	63,95	138,78
11,00		20,80	24,94		29,43						
12,00		22,03	25,79		30,26	34,46	55,59		58,27	73,92	155,61
13,00		24,15	30,62		36,68						
14,00		31,46	34,22		37,45	43,45	56,45		69,15	79,05	171,51
15,00		37,45			53,24				75,53		
16,00			47,21		53,57	65,14			94,11	101,08	175,21
17,00			83,49			115,06					
18,00				96,48				119,18		154,46	311,41
20,00				113,26				126,27		250,37	357,22
22,00				139,09				185,07		250,37	378,27
24,00								206,86			
25,00								211,06		308,94	430,00
28,00								235,07			
30,00								251,19			

PUNTA SDS-PLUS PER CALCESTRUZZO ARMATO, TESTA INTEGRALE IN METALLO DURO 4 TAGLIENTI

Ref. W77

SDS Plus

4 Z





ASTUCCI DI 10 PUNTE W77



ø mm	L1 x L2 (mm) 115x50 €	165x100 €	215x150 €
5,0	**106,99**	**127,34**	
6,0	**106,99**	**116,79**	**175,28**
8,0	**138,64**	**140,14**	**167,27**
10,0	**162,75**	**165,01**	**186,07**
12,0		**198,16**	**232,07**

10 U.

Ex. W7706X110-10

ASTUCCI DI 50 PUNTE W77



ø mm	L1 x L2 (mm) 165x100 €
6,0	**564,47**
8,0	**677,37**

50 U.

Ex. W7706X160-50









REFERENZA	**W77D9358**	**W77D9412**	**W77D9319**	**W77D9320**
Nº PUNTE	4	6	4	5
CONTENUTO	Ø 5 - 6 - 8 - 10 x 115 mm	Ø 5 - 6 - 8 x 115 mm Ø 6 - 8 - 10 x 165 mm	Ø 5 - 6 - 8 - 10 x 165 mm	Ø 5 - 6 x 115 mm Ø 6 - 8 - 10 x 165 mm
P.V.P. €	**63,92**	**92,71**	**69,58**	**78,71**





REFERENZA	**W77D0080**	**W77D0708**
Nº PUNTE	7	6
CONTENUTO	Ø 5 - 6 - 8 x 115 mm Ø 6 - 8 - 10 - 12 x 165 mm	Ø 6 x 115 mm Ø 6 - 8 - 10 - 12 - 14 x 165 mm
P.V.P. €	**115,90**	**120,14**

PUNTA MULTIUSO SDS-PLUS CON TESTA IN METALLO DURO

Ref. W99

SDS Plus

DIN 8039

Serie Multiuso Professionale





- Punta multiuso con attacco SDS Plus per forare tutti i tipi di materiali.
- Attacco SDS PLUS SPECIAL a percorso breve, consente la foratura di materiali fragili.
- La guida a percorso breve provoca un basso impatto sul materiale da forare, risolvendo la foratura in materiali fragili come mattoni, piastrelle, ardesia, ecc...
- Punta in metallo duro ad alte prestazioni, speciale per lavorare su tutti i tipi di materiali.
- Canale a doppia elica, ottimizza l'aspirazione della polvere di foratura.

APPLICAZIONI:

- Geometria a basso impatto, facilita alte prestazioni in materiali come piastrelle, mattoni, ardesia, tavellone alleggerito, calcestruzzo aerato.
- Particolarmente indicato per posizionare i tasselli sotto la tegola, facilitando la foratura multipla, prima la tegola e poi il cemento per posizionare il tassello di fissaggio sul tetto.



Nuovo attacco SDS PLUS a basso impatto

	W99				
D1 mm	L1 x L2 mm				
	110 x 60 €	160 x 110 €	210 x 160 €	260 x 210 €	400 x 350 €
4,00	**16,28**	**20,94**			
5,00	**10,07**	**12,82**	**20,34**		
6,00	**10,37**	**11,96**	**17,98**	**26,68**	
8,00	**13,05**	**13,15**	**16,63**	**24,18**	
10,00	**14,00**	**16,32**	**19,80**	**25,07**	
12,00		**18,32**	**22,53**	**27,73**	
14,00		**29,56**	**32,50**	**36,29**	
16,00		**33,13**	**40,68**	**44,73**	**52,36**
18,00					**58,36**
20,00					**65,21**
22,00					**76,36**







Perfora tutti i tipi di materiali da costruzione leggeri.

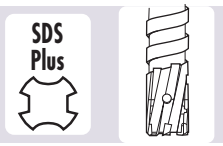
Particolarmente indicato per posizionare i tasselli sotto la tegola, facilitando la foratura multipla, prima la tegola e poi il cemento per posizionare il tassello di fissaggio sul tetto.

Punta in metallo duro appositamente rettificata per l'uso universale in un'ampia varietà di materiali. Ideale per forare materiali da edilizia leggeri. Lo speciale attacco SDS PLUS a percorso breve riduce l'impatto della punta su materiali fragili, in modo da non danneggiare i nervi dei mattoni. Generando fori perfetti, su superfici che con altre punte subiscono rotture impreviste.

In questo modo i fissaggi e gli ancoraggi possono essere installati correttamente, garantendone le capacità di carico.

PUNTA PER TAGLIARE LA ARMATURA SDS-PLUS

Ref. **REB**



- Utilizzare la punta con acqua ed esclusivamente in modalità a rotazione.
- Raffreddare con abbondante acqua.
- Una volta forati i tondini nel calcestruzzo armato, eliminare i trucioli precipitati nel foro con una calamita, altrimenti la punta per calcestruzzo che perfora in continuazione riscontrerà problemi nel lavoro.







	REB				
	D1 mm	L1 mm	L2 mm	Z	€
REB10X300	10	300	80	4	**37,49**
REB12X300	12	300	80	4	**42,78**
REB14X300	14	300	80	4	**47,12**
REB16X300	16	300	80	6	**56,54**
REB18X300	18	300	80	6	**60,23**
REB20X300	20	300	80	6	**61,64**
REB22X300	22	300	80	8	**69,44**
REB26X300	26	300	80	8	**74,85**
REB28X300	28	300	80	10	**81,87**
REB32X300	32	300	80	10	**92,45**



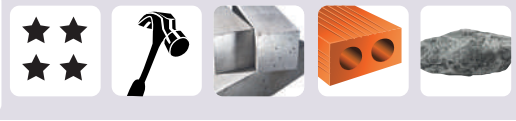


NUOVO SISTEMA PER LA FORATURA PROFESSIONALE FORATURA MODULARE

3.000 mm CAPACITÀ DI TAGLIO

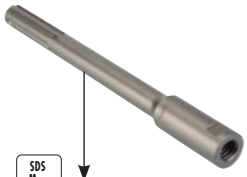
NEW

SDS Max



Serie Modular Drilling

FORARE, facilmente fino a 3 metri di profondità, nei diametri da 26 mm a 150 mm
AGGIUNGERE, il numero di prolunghe da considerare fino ad ottenere la lunghezza di foratura necessaria.
COMBINA, Mandrino SDS MAX con Prolunghe, Punte da trapano, Testa demolitrice e corone da realizzare perforare profondità estremamente lunghe e inaccessibili.
LUNGHEZZA MASSIMA CONSIGLIATA 3 METRI.



SDS Max
Ref. SMADMAX

A
B



Ref. SMEXT280
Estension filettata, Lt=280mm



Ref. SM Ø26-32mm



Ref. SM Ø35-90mm



Ref. SMCC Ø50-125mm





1:8



Supporto conico + Corona CLA + CLAII Pag.597
Ref. SM3 conicità 1:8 Ref. CLA Ø30-150mm

ESEMPI DI COMBINAZIONI DISPONIBILI

COMBINAZIONE PER PUNTA ESTENSIBILE PER CALCESTRUZZO A 4 TAGLI, Ø 26-32 mm



SMADMAX +



SMEXT280 +



SM Ø26-32mm

COMBINAZIONE PER TESTA DEMOLITRICE ESTENSIBILE, Ø 35-90 mm



SMADMAX +



SMEXT280 +



SM Ø35-90mm

COMBINAZIONE PER CORONA ALLUNGABILE, Ø 50-125 mm



SMADMAX +



SMEXT280 +



SMCC Ø50-125 +



SM4

COMBINAZIONE PER ORMEGGIO CORONA CLA CONICA 1:8, ALLUNGABILE Ø 30-150 mm



SMADMAX +



SMEXT280 +



SM3 +



CLA Ø30-150 +
Pag. 597



CLAII

NUOVO SISTEMA PER LA FORATURA PROFESSIONALE FORATURA MODULARE

NEW

SDS Max



- Per trapano di profonditá superiori a 720 mm, consigliama l'uso di una punta prima uguale a la metá del diametro finale, come minimo, per evitarne la rottura.

Serie Modular Drilling

ADATTATORE SDS MAX FILETTATO



	SMADMAX		
SDS Max	L1 mm	€
SMADMAX250	250	**140,20**
SMADMAX450	450	**230,07**
SMADMAX850	850	**424,18**

ESTENSIONE FILETTATA



	SMEXT		
	L1 mm	D1 mm	€
SMEXT280	280	25	**181,54**

- Include 1 vite di unione SM2 incorporata.

PUNTA DA TRAPANO PER CALCESTRUZZO 4 TAGLI FILETTATI



	SM		
	D1 mm	L1 mm	€
SM26	26	300	**275,14**
SM28	28	300	**293,84**
SM30	30	300	**312,53**
SM32	32	300	**331,22**

- Include 1 vite di unione SM2 incorporata.

TESTA ROMPITRICE



	SM	
	D1 mm	€
SM35	35	**466,53**
SM40	40	**516,14**
SM45	45	**568,26**
SM50	50	**590,62**
SM55	55	**615,42**
SM60	60	**652,67**
SM68	68	**689,84**
SM80	80	**799,05**
SM90	90	**1.007,47**

- Include 1 vite di unione SM2 incorporata.

CORONA FILETTATA

70 mm CAPACITÀ DI TAGLIO



	SMCC		
	D1 mm	Z	€
SMCC50	50	7	**260,76**
SMCC65	65	8	**330,43**
SMCC80	80	9	**385,14**
SMCC90	90	10	**431,37**
SMCC105	105	11	**587,89**
SMCC125	125	12	**645,12**

- Non include la vite di unione SM2 necessaria per l'unione con la prolunga filettata o l'adattatore SDS Max.



Ref. SM2

Ref. SM3

Ref. SM4

VITE DI UNIONE

PERNO FILETTATO PER CORONA CLA 1:8

PUNTA GUIDA FILETTATA

	SM		
	D1 mm	L1 mm	€
SM2	14	62	**22,29**
SM3*	26	90	**131,50**
SM4*	11	150	**67,94**

- Include 1 vite di unione SM2 incorporata.

- Quando il sistema viene utilizzato senza punta guida (SM4), sarà necessario utilizzare la vite di raccordo, unione (SM2)

PUNTA PER TRAPANO A MARTELLO CON ATTACCO SDS-MAX

Ref. **QT**





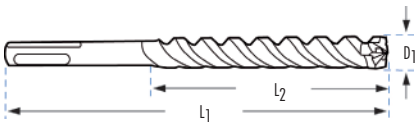


4 TAGLIENTI

- Geometria autocentrante della testa in metallo duro, ad alto rendimento.
- Maggiore velocità e durabilità.
- Spirale a 4 canali per ottimizzare l'estrazione dei detriti.
- Minima frizione grazie alla testa più snella.
- Vita utile superiore grazie alla ridotta frizione nella testa e nei canali.
- Maggiore rapidità nell'estrazione della polvere di calcestruzzo.
- Indicata per tutti i martelli con attacco SDS Max.

APPLICAZIONI:

- Calcestruzzi e materiali per edilizia, marmo, granito, ardesia, pietra naturale.



	D1 mm	L1x L2 mm	QT €
QT12X340	12	340x200	**63,21**
QT12X540	12	540x400	**78,77**
QT12X740	12	740x600	**99,71**
QT12X940	12	920x800	**145,54**
QT14X340	14	340x200	**72,64**
QT14X540	14	540x400	**83,08**
QT14X740	14	740x600	**117,76**
QT14X940	14	920x800	**151,81**
QT15X340	15	340x200	**73,70**
QT15X540	15	540x400	**89,00**
QT16X340	16	340x200	**81,03**
QT16X540	16	540x400	**97,46**
QT16X740	16	740x600	**122,05**
QT16X940	16	920x800	**153,05**
QT16X1340	16	1320x1200	**315,91**
QT17X340	17	340x200	**96,36**
QT17X540	17	540x400	**110,05**
QT18X340	18	340x200	**88,54**
QT18X540	18	540x400	**105,58**
QT18X720	18	740X600	**133,99**
QT18X940	18	920X800	**155,28**
QT18X1320	18	1320X1200	**321,92**

	D1 mm	L1x L2 mm	QT €
QT19X320	19	320x200	**102,24**
QT19X520	19	520x400	**113,97**
QT20X320	20	320x200	**89,58**
QT20X520	20	520x400	**109,76**
QT20X720	20	720x600	**153,45**
QT20X920	20	920x800	**162,39**
QT20X1320	20	1320x1200	**349,92**
QT22X320	22	320x200	**102,46**
QT22X520	22	520x400	**118,50**
QT22X720	22	720x600	**156,82**
QT22X920	22	920x800	**168,62**
QT22X1320	22	1320x1200	**355,34**
QT24X320	24	320x200	**109,88**
QT24X520	24	520x400	**134,24**
QT25X320	25	320x200	**112,87**
QT25X520	25	520x400	**135,07**
QT25X720	25	720x600	**181,50**
QT25X920	25	920x800	**201,71**
QT25X1320	25	1320x1200	**305,99**
QT26X320	26	320x200	**130,23**
QT26X520	26	520x400	**131,93**
QT28X320	28	320x200	**132,47**

	D1 mm	L1x L2 mm	QT €
QT28X520	28	520x400	**132,73**
QT28X720	28	720x600	**164,57**
QT28X920	28	920x800	**208,42**
QT28X1320	28	1320x1200	**392,98**
QT30X320	30	320x200	**156,83**
QT30X520	30	520x400	**166,23**
QT32X320	32	320x200	**166,23**
QT32X520	32	520x400	**198,58**
QT32X720	32	720x600	**251,55**
QT32X920	32	920x800	**249,91**
QT35X520	35	520x400	**202,44**
QT35X720	35	720x600	**239,10**
QT35X920	35	920x800	**344,58**
QT35X1320	35	1320x1200	**509,39**
QT38X520	38	520x400	**256,89**
QT38X720	38	720x600	**302,23**
QT40X520	40	520x400	**300,14**
QT40X720	40	720x600	**349,50**
QT40X920	40	920x800	**378,66**
QT40X1320	40	1320x1200	**541,30**



PUNTA PER TRAPANO A MARTELLO CON ATTACCO SDS-MAX

Ref. AX

SDS Max

Serie Professionale



4 TAGLIENTI



FABBRICATA A 2 TAGLIENTI

	D1 mm	L1x L2 mm	AX €
AX12.0X340	12	340x200	71,22
AX12.0X540	12	540x400	83,94
AX14.0X340	14	340x200	77,40
AX14.0X540	14	540x400	94,77
AX15.0X340	15	340x200	81,23
AX15.0X540	15	540x400	98,80
AX16.0X340	16	340x200	96,99
AX16.0X540	16	540x400	110,03
AX16.0X740	16	690x550	130,06
AX16.0X940	16	920x780	163,09
AX18.0X340	18	340x200	101,74
AX18.0X540	18	540x400	119,44
AX18.0X720	18	690x550	142,80
AX18.0X940	18	920x780	165,48
AX19.0X320	19	340x200	108,96
AX19.0X540	19	540x400	125,36
AX20.0X320	20	340x200	102,33
AX20.0X520	20	540x400	121,85
AX20.0X720	20	690x550	163,52
AX20.0X920	20	920x780	173,06
AX20.0X1320	20	1300x1160	394,82
AX20.0X1500	20	1500x1360	421,36
AX22.0X320	22	340x200	113,38
AX22.0X520	22	540x400	130,34
AX22.0X720	22	690x550	167,11
AX22.0X920	22	920x780	179,70
AX22.0X1320	22	1300x1160	400,95
AX22.0X2000	22	1925x1785	731,90
AX22.0X2500	22	2500x2360	1.222,22
AX22.0X3000	22	3000x2860	1.522,85
AX22.0X3500	22	3500x3360	1.719,50
AX22.0X3850	22	3850x3710	1.965,36
AX24.0X320	24	340x200	118,46
AX24.0X520	24	540x400	138,76
AX24.0X720	24	690x550	215,36
AX24.0X920	24	920x780	241,25
AX24.0X1500	24	1500x1360	377,34
AX25.0X320	25	340x200	122,21
AX25.0X520	25	540x400	139,62
AX25.0X720	25	690x550	215,99
AX25.0X920	25	920x780	241,25
AX25.0X1320	25	1300x1160	347,27
AX25.0X1500	25	1500x1360	514,25
AX25.0X2000	25	1925x1785	775,90
AX25.0X2500	25	2500x2360	1.275,30
AX25.0X3000	25	3000x2860	1.723,73
AX25.0X3500	25	3500x3360	2.128,19
AX25.0X3850	25	3850x3710	2.553,08
AX26.0X320	26	340x200	149,04
AX26.0X520	26	540x400	166,35
AX26.0X720	26	690x550	217,77
AX26.0X920	26	920x780	241,25
AX28.0X320	28	340x200	153,36
AX28.0X520	28	540x400	189,78
AX28.0X720	28	690x550	221,56
AX28.0X920	28	920x780	259,12
AX28.0X1320	28	1300x1160	449,73
AX28.0X1500	28	1500x1360	588,36
AX30.0X320	30	340x200	170,30
AX30.0X520	30	540x400	201,01
AX30.0X720	30	690x550	272,36
AX30.0X920	30	920x780	322,25
AX32.0X320	32	340x200	191,25
AX32.0X520	32	540x400	227,00
AX32.0X720	32	690x550	278,92
AX32.0X920	32	920x780	333,33
AX32.0X1320	32	1300x1160	511,29
AX32.0X1500	32	1500x1360	663,54
AX35.0X320	35	340x200	241,25
AX35.0X520	35	540x400	254,42
AX35.0X720	35	690x550	257,73
AX35.0X920	35	920x780	354,90
AX35.0X1320	35	1300x1160	524,65
AX36.0X320	36	340x200	285,36
AX36.0X520	36	540x400	290,36
AX36.0X720	36	690x550	355,25
AX36.0X920	36	920x780	435,36
AX36.0X1500	36	1500x1360	612,91
AX38.0X320	38	340x200	309,36
AX38.0X520	38	540x400	318,36
AX38.0X720	38	690x550	345,36
AX38.0X920	38	920x780	444,44
AX40.0X320	40	340x200	296,36
AX40.0X520	40	540x400	344,12
AX40.0X720	40	690x550	359,97
AX40.0X920	40	920x780	475,36
AX40.0X1500	40	1500x1360	709,70
AX42.0X320	42	340x200	389,58
AX42.0X520	42	540x400	401,25
AX42.0X720	42	690x550	487,99
AX42.0X920	42	920x780	496,36
AX42.0X1320	42	1300x1160	654,38
AX42.0X1500	42	1500x1360	745,54
AX45.0X320	45	340x200	325,36
AX45.0X520	45	540x400	341,72
AX45.0X720	45	690x550	441,84
AX45.0X920	45	920x780	501,36
AX45.0X1320	45	1300x1160	675,36
AX45.0X1500	45	1500x1360	820,20
AX52.0X520	52	540x400	460,16
AX52.0X720	52	690x550	587,15



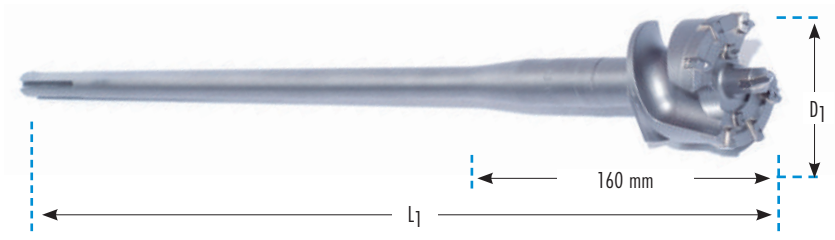
PUNTA DI GRANDE DIAMETRO CON ATTACCO SDS MAX INTEGRALE PER FORARE Ø 45 FINO A 80 mm

	D1 mm	L1x L2 mm	AX €
AX45.0X590	45,0	590x450	467,73
AX45.0X990	45,0	990x850	503,73
AX50.0X590	50,0	590x450	519,36
AX50.0X990	50,0	990x850	555,36
AX55.0X590	55,0	590x450	523,54
AX55.0X990	55,0	990x850	575,18
AX65.0X590	65,0	590x450	578,97
AX65.0X990	65,0	990x850	650,65
AX80.0X590	80,0	590x450	677,48
AX80.0X990	80,0	990x850	792,07

Ref. AX

SDS Max

Serie Professionale



PUNTA SDS-MAX PER CALCESTRUZZO ARMATO, TESTA INTEGRALE IN METALLO DURO 4 TAGLIENTI

Ref. X4AX

SDS Max | 4 Z | Alto Rendimento | X4



Ø 12-28



Ø 30-45

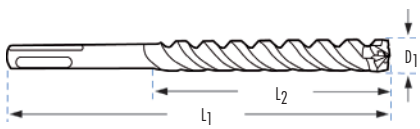


- Massimo rendimento e durabilità nel calcestruzzo armato.
- La miglior punta sul mercato per perforare velocemente e facilmente il calcestruzzo armato e ad alta resistenza.
- Punta con attacco per trapani SDS Max.
- I detriti si estraggono con maggior velocità e in maniera più fluida grazie ai suoi 4 canali.

APPLICAZIONI: Cemento armato, calcestruzzo e muratura.

TESTA INTEGRALE IN METALLO DURO CON 4 TAGLIENTI

- Eccezionale resistenza agli impatti. Punta progettata specialmente per calcestruzzo armato.
- Testa autocentrante a 90°, permette la realizzazione di fori perfettamente centrati.
- Design specifico ad altro rendimento che aumentano il volume dell'estrazione, diminuendone l'usura.
- Segni di usura laterale



	D1 mm	L1x L2 mm	X4AX €
X4AX12X340	12	340x200	114,47
X4AX12X540	12	540x400	134,97
X4AX12X740	12	740x600	191,35
X4AX12X940	12	940x800	256,28
X4AX14X340	14	340x200	127,28
X4AX14X540	14	540x400	152,06
X4AX14X740	14	740x600	203,32
X4AX14X940	14	940x800	259,70
X4AX16X340	16	340x200	137,54
X4AX16X540	16	540x400	160,60
X4AX16X740	16	740x600	210,15
X4AX16X940	16	940x800	263,11
X4AX18X340	18	340x200	142,32
X4AX18X540	18	540x400	169,65
X4AX18X740	18	740X600	216,81
X4AX18X940	18	940X800	263,80
X4AX20X320	20	320x200	149,84
X4AX20X520	20	520x400	172,56
X4AX20X720	20	720x600	220,58
X4AX20X920	20	920x800	271,32
X4AX20X1300	20	1300x1160	485,25
X4AX20X1500	20	1500x1360	500,66
X4AX22X320	22	320x200	160,26
X4AX22X520	22	520x400	181,96
X4AX22X640	22	540x400	215,36
X4AX22X720	22	690x550	229,63

	D1 mm	L1x L2 mm	X4AX €
X4AX22X920	22	920x800	275,07
X4AX22X1300	22	1300x1160	509,12
X4AX24X320	24	320x200	174,44
X4AX24X520	24	520x400	192,04
X4AX24X720	24	690x550	247,66
X4AX24X920	24	920x780	277,44
X4AX24X1500	24	1500x1360	507,32
X4AX25X320	25	320x200	174,44
X4AX25X520	25	520x400	201,78
X4AX25X720	25	720x600	263,80
X4AX25X920	25	920x800	327,87
X4AX25X1300	25	1300x1160	530,10
X4AX25X1500	25	1500x1360	610,36
X4AX26X320	26	320x200	197,66
X4AX26X520	26	520x400	227,97
X4AX26X720	26	690x550	270,66
X4AX26X920	26	920x780	333,36
X4AX28X320	28	320x200	203,50
X4AX28X520	28	520x400	230,22
X4AX28X720	28	720x600	272,04
X4AX28X920	28	920x800	343,69
X4AX28X1300	28	1300x1160	604,64
X4AX28X1500	28	1500x1360	673,59
X4AX30X320	30	340x200	204,87
X4AX30X520	30	540x400	241,25
X4AX30X720	30	690x550	313,21

	D1 mm	L1x L2 mm	X4AX €
X4AX30X920	30	920x780	370,59
X4AX32X320	32	340x200	233,48
X4AX32X520	32	540x400	273,07
X4AX32X720	32	690x550	328,60
X4AX32X920	32	920x780	397,76
X4AX32X1300	32	1300x1160	667,40
X4AX32X1500	32	1500x1360	758,30
X4AX35X320	35	340x200	294,76
X4AX35X520	35	540x400	293,69
X4AX35X720	35	690x550	333,75
X4AX35X920	35	920x780	477,17
X4AX35X1300	35	1300x1160	705,38
X4AX36X320	36	340x200	333,75
X4AX36X520	36	540x400	346,36
X4AX36X720	36	690x550	408,54
X4AX36X920	36	920x780	500,66
X4AX36X1500	36	1500x1360	824,04
X4AX38X320	38	340x200	365,25
X4AX38X520	38	540x400	386,68
X4AX38X720	38	690x550	434,31
X4AX38X920	38	920x780	511,11
X4AX40X320	40	340x200	393,68
X4AX40X720	40	690x550	502,24
X4AX42X320	42	340x200	448,01
X4AX45X320	45	340x200	508,12
X4AX45X520	45	540x400	591,66



ADATTATORI A CAMBIO RAPIDO SDS-PLUS PER LA MAGGIOR PARTE DEI MARTELLI ELETTROPNEUMATICI



NOTA : Questo sistema è pensato e indicato per l'utilizzo di punte SDS-PLUS di piccoli diametri, fino ad un Ø massimo di 18 mm, che non si fabbricano con il sistema SDS MAX, attacco scanalato, ecc... La vita e il rendimento di questi adattatori dipenderà dal rispetto di questa raccomandazione.

ATTACCO		TIPO DI MACCHINA (USCITA SDS-PLUS IN TUTTI I CASI)		€
QFMX	SDS-MAX	Tutte le macchine con attacco SDS MAX		**166,79**
QFK2 Hex.14 mm	Codolo esagonale di 14 mm	KANGO PICCOLO	501 - 637 - 430C	**166,79**

ESPANSORI SDS-PLUS & SDS-MAX

SDS-MAX





	Ø mm	L mm		€
HMAX	30	-	Connettore SDS-MAX	**106,35**



	Ø mm	L mm		€
MMAX1	18	320	Sbarra SDS-MAX	**25,36**
MMAX2		750	Sbarra SDS-MAX	**56,44**
MMAX3		1100	Sbarra SDS-MAX	**74,11**

SDS-PLUS





	Ø mm	L mm		€
HPLUS	21	-	Connettore SDS-PLUS	**89,36**



	Ø mm	L mm		€
MPLUS1	10	250	Sbarra SDS-MAX	**15,36**
MPLUS2		350	Sbarra SDS-MAX	**21,28**
MPLUS3		500	Sbarra SDS-MAX	**26,36**

RASTRELLO IN CARBURO PER MALTA

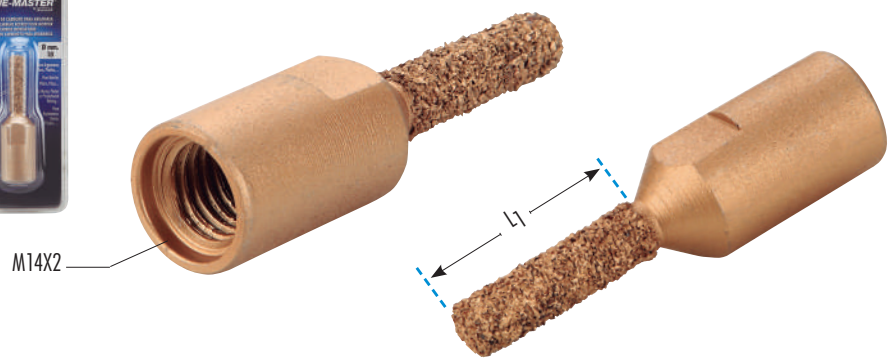
Ref. **BW33**

MD

- Per rimuovere la malta tra il mattone e la pietra.
  Si adatta alle smerigliatrici angolari con filettature M14 X 2.00.







				BW33
	filettature mm	L1 mm	D1 mm	€
BW3308	M14x2	33	8	**22,00**
BW3310	M14x2	33	10	**25,47**
BW3312	M14x2	33	12	**30,26**

VALUTAZIONE DEI RECLAMI

I danni irreparabili nella punta possono essere causati da:

- Prolungamento del lavoro, oltre all'esaurimento della vita utile dell'utensile.
- Scelta incorretta dell'utensile per il materiale da lavorare.
- Oltrepassare la profondità massima di forazione.
- Cattivo stato del trapano elettrico utilizzato.

Come stimare la vita utile dell'utensile:

- Verificare l'usura della placchetta.
- Verificare l'usura dei canali.
- Verificare l'usura delle scanalature dell'attacco SDS.



Placchetta consumata

DISTACCO DELLA PLACCHETTA

Succede quando si continua a perforare con la punta nonostante l'utensile sia consumato. Il calore generato dall'usura fonde la saldatura e fa sì che la placchetta si distacchi.

RECLAMO NON PERTINENTE





FRATTURA DELLA PUNTA

Succede quando si continua a perforare con la punta nonostante l'utensile sia consumato. "L'effetto fatica" causa la rottura della punta.

RECLAMO NON PERTINENTE



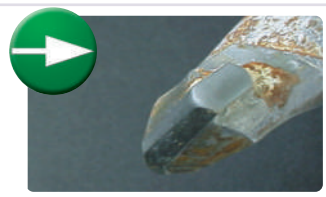
Placchetta consumata



FRATTURA DELLA PUNTA

Se la placchetta non ha esaurito la sua vita utile e la rottura è invece dovuta ad un trattamento termico difettoso.

RECLAMO PERTINENTE



Placchetta in buono stato



FRATTURA DELLA PUNTA

La rottura è causata dal fatto che l'operatore ha oltrepassato la profondità massima di perforazione. La zona della punta senza scanalature presenta usure.

RECLAMO NON PERTINENTE





DISTACCO DELLA TESTA

Succede quando l'operatore ha oltrepassato la profondità massima di perforazione o a causa de "l'effetto fatica", continuando ad utilizzare la punta quando la sua vita era esaurita.

RECLAMO NON PERTINENTE





FRATTURA DELLA PLACCHETTA

È causata dall'impatto della punta contro oggetti molto duri, come i tondini di ferro per calcestruzzo armato.

RECLAMO NON PERTINENTE





CREPE NELLA PLACCHETTA

Sono causate dall'impatto della punta contro oggetti molto duri, come i tondini di ferro per calcestruzzo armato.

RECLAMO NON PERTINENTE



VALUTAZIONE DEI RECLAMI PUNTA DELTATOP



VITA DELLA PUNTA DELTATOP

Se la placchetta presenta il livello di usura della foto, la vita della punta si considera esaurita.

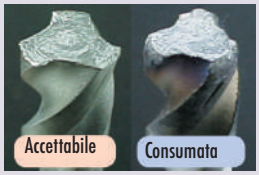
RECLAMO NON PERTINENTE



VITA DELLA PUNTA DELTATOP

Le ustioni compaiono quando si continua a perforare con la punta nonstante i livelli di usura indichino che la vita della punta sia esaurita. Le ustioni possono comparire anche nel codolo, per mancanza di lubrificazione o trapano magnetico difettoso.

RECLAMO NON PERTINENTE



DISTACCO DELLA TESTA

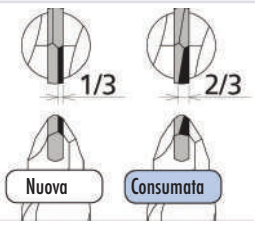
Se la testa presenta ustioni, significa che l'operatore ha continuato a lavorare nonstante la vita della punta fosse esaurita. Il calore generato dall'usura fonde la saldatura e fa sì che la testa si distacchi.

RECLAMO NON PERTINENTE

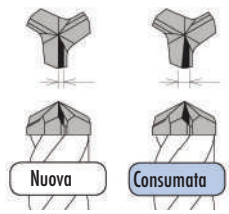
Se la testa si stacca prematuramente senza ustioni, si considera difetto di saldatura.

RECLAMO PERTINENTE

COME VERIFICARE LA VITA UTILE DELLA PUNTA?



Se la larghezza della faccia frontale di taglio raggiunge i due terzi (2/3) della larghezza totale della placchetta, si considera che la punta ha esaurito la sua vita utile.

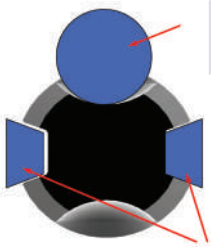


Se la larghezza della faccia frontale di taglio raggiunge i livelli descritti nella foto di sinistra, si considera che la punta ha esaurito la sua vita utile.

VALUTAZIONE DEI RECLAMI

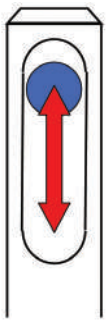
DISFUNZIONE NEI TRAPANI ELETTRICI A MANO

TRAPANO IN **BUONO** STATO √



La sfera permette al trapano di trasmettere il movimento assiale alla punta.

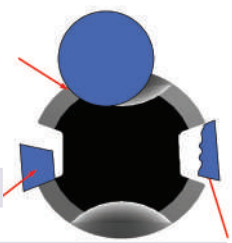
Le linguette laterali permettono al trapano di trasmettere il movimento di rotazione alla punta.



La punta possiede una capacità d'impatto assiale.

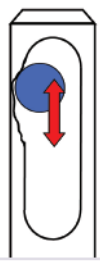
TRAPANO IN **CATTIVO** STATO X

Le linguette, incapaci di trasmettere il movimento di rotazione, forzano la sfera a realizzarlo, la quale rimane bloccata nella scanalatura senza poter trasmettere l'impatto assiale.



La linguetta è usurata.

La linguetta è rotta.



Il cattivo stato del trapano penalizza la capacità d'impatto della punta, la quale gira senza perforare correttamente.



Caso Estremo

CONCLUSIONE:
La punta gira senza perforare correttamente e si surriscalda con la frizione. Questo genera un'usura prematura e, infine, la rottura.

RECLAMO NON PERTINENTE

BLUE-MASTER®
by celesa



SCALPELLI

SCALPELLI PER MARTELLI ELETTROPNEUMATICI

SDS Plus



SDS PLUS

	LARGH mm	LUNGH. mm	€
SCALPELLO A PUNTA			
P02140	-	140	**9,64**
P02250	-	250	**15,67**
SCALPELLO PIATTO			
C02140	20	140	**9,64**
C02250	20	250	**15,67**
SCALPELLO PIATTO (minore vibrazione)			
CV02250	20	250	**19,85**
SCALPELLO A SGORBIA			
R02250	22	250	**31,78**
SCALPELLO PIATTO LARGO			
CA02140	40	140	**12,04**
CA02250	40	250	**26,98**
CA06250	60	250	**42,08**
SCALPELLO PIATTO PIASTRELLE			
CZ02250	40	250	**43,33**
SCALPELLO A SGORBIA CON ALETTE			
RA02250	22	250	**92,48**
ATTREZZO PER INSERIMENTO RAGGI			
PIPLUS1/2	1/2 = 12,7	170	**51,25**
PIPLUS5/8	5/8 = 15,87	170	**53,36**

















SCALPELLI PER MARTELLI ELETTROPNEUMATICI

SDS Max



SDS MAX

	LARGH mm	LUNGH. mm	€
SCALPELLO A PUNTA			
P01280	-	280	**20,48**
P01400	-	400	**20,90**
P01600	-	600	**33,16**





P01400

SCALPELLO A PUNTA (minore vibrazione)			
PR01400	-	400	**39,00**
PRR1400	-	400	**41,99**





PR01400



PRR1400

SCALPELLO A PUNTA PRH (minore vibrazione)			
PRH1400	-	400	**42,69**





PRH1400

SCALPELLO PIATTO			
C01280	25	280	**20,40**
C01400	25	400	**20,79**
C01600	25	600	**33,07**





C01400

SCALPELLO PIATTO (minore vibrazione)			
CR01400	25	400	**40,55**





CR01400

SCALPELLO PIATTO (minore vibrazione)			
CH01400	25	400	**42,69**





CH01400

SCALPELLI PER MARTELLI ELETTROPNEUMATICI

SDS Max



SDS MAX





C0175

	LARGH mm	LUNGH. mm	€
SCALPELLO PIATTO LARGO			
C0150	50	400	**39,16**
C0175	75	300	**51,44**
C01115	115	350	**102,06**





CZ0150

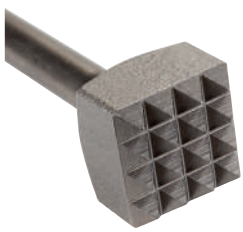
SCALPELLO PIATTO PIASTRELLE			
CZ0150	50	300	**61,90**





CM0110

SCALPELLO A MORTAIO			
CM0110	8	300	**73,55**





BU45

BOCCIARDA			
BU45	45	250	**225,75**





CD0132

SCALPELLO CON DENTI			
CD0132	32	280	**95,56***





CMD0132

SCALPELLO CON DENTI METALLO DURO			
CMD0132	38	280	**218,57***

*Fino ad esaurimento scorte





ATTREZZO PER INSERIMENTO RAGGI			
PI5/8	5/8 = 15,87	250	**58,32**
PI3/4	3/4 = 19,05	250	**61,25**
PI1	1=25,40	250	**64,36**

SCALPELLI PER MARTELLI ELETTROPNEUMATICI

BOSCH
Ø 16,5
19



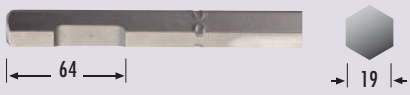


BOSCH ⬢ 19 - Ø 16,5 mm

	LARGH mm	LUNGH. mm	€
SCALPELLO A PUNTA			
P05300	-	300	45,88*
P05400	-	400	54,95
P05600	-	600	68,34
SCALPELLO PIATTO			
C05300	25	300	45,88
C05400	25	400	64,62
SCALPELLO PIATTO LARGO			
CA05300	50	300	57,35
CA0575	75	300	64,69
SCALPELLO A SGORBIA			
R05300	25	300	87,42*

*Fino ad esaurimento scorte

BOSCH
19





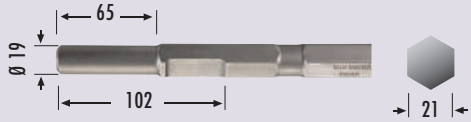
BOSCH ⬢ 19 mm

	LARGH mm	LUNGH. mm	€
SCALPELLO A PUNTA			
P04400	-	400	40,67
P04600	-	600	54,01
SCALPELLO PIATTO			
C04300	25	300	41,02*
C04400	25	400	42,92
C04600	25	600	55,71
SCALPELLO PIATTO LARGO			
CA04300	50	300	80,50
CA04450	50	450	83,36
SCALPELLO A SGORBIA			
R04300	25	300	120,41*

*Fino ad esaurimento scorte

SCALPELLI PER MARTELLI ELETTROPNEUMATICI

KANGO Ø 19
21




P06400


C06400


CA06400

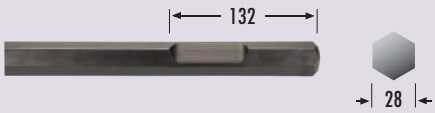

R06300

KANGO ⬢ 21 - Ø 19 mm

	LARGH mm	LUNGH. mm	€
SCALPELLO A PUNTA			
P06400	-	380	**55,14**
P06450	-	460	**64,23**
P06600	-	600	**84,18**
SCALPELLO PIATTO			
C06400	25	380	**55,14**
C06450	25	460	**60,36**
C06600	25	600	**75,13**
SCALPELLO PIATTO LARGO			
CA06400	50	400	**118,86**
CA0675400	75	400	**126,79**
SCALPELLO A SGORBIA			
R06300	33	300	**99,93***

*Fino ad esaurimento scorte

BOSCH
28




P07400


C07400

BOSCH ⬢ 28 mm

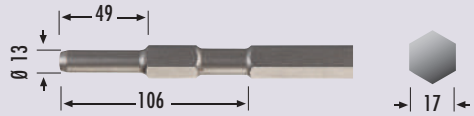
	LARGH mm	LUNGH. mm	€
SCALPELLO A PUNTA			
P07400	-	400	**63,80**
P07450	-	450	**96,42**
SCALPELLO PIATTO			
C07400	33	400	**65,86**





SCALPELLI PER MARTELLI ELETTROPNEUMATICI

MAKITA Ø 13
17





P10280



C10280



CA10280

MAKITA ⬢ 17 - Ø 13 mm

	LARGH mm	LUNGH. mm	€
SCALPELLO A PUNTA			
P10280	-	280	**43,35**
P10450	-	450	**54,56**
SCALPELLO PIATTO			
C10280	22	280	**50,97**
C10450	22	450	**57,80**
SCALPELLO PIATTO LARGO			
CA10280	50	280	**117,20**

MAKITA Ø 24
30





P11410



C11410



CA1175

MAKITA ⬢ 30 - Ø 24 mm

	LARGH mm	LUNGH. mm	€
SCALPELLO A PUNTA			
P11410	-	410	**66,63**
P11550	-	700	**135,74**
SCALPELLO PIATTO			
C11410	30	410	**68,32**
SCALPELLO PIATTO LARGO			
CA1175	75	410	**92,92**
CA11125	125	400	**212,63**

HILTI
22





P21360



PR21360



C21360



CA21360

HILTI ⬢ 22

	LARGH mm	LUNGH. mm	€
SCALPELLO A PUNTA			
P21360	-	360	**32,81**
P21500	-	500	**48,82**
SCALPELLO A PUNTA (minore vibrazione)			
PR21360	-	360	**62,84**
SCALPELLO PIATTO			
C21360	28	360	**30,61**
C21500	28	500	**48,69**
SCALPELLO PIATTO LARGO			
CA21360	80	360	**75,73**
CA21500	80	500	**78,65**

SCALPELLI PER MARTELLI ELETTROPNEUMATICI

HEX. 22





P17450



C17450

ESSAGONALE ⬢ 22 x 82 mm

	LARGH mm	LUNGH. mm	€
SCALPELLO A PUNTA			
P17450	-	450	**43,87**
P171000	-	1000	**114,43**
SCALPELLO PIATTO			
C17450	30	450	**43,87**

HEX. 25





P18500

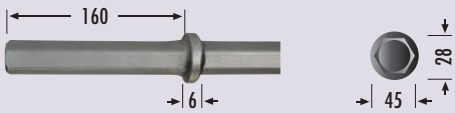


C18500

ESSAGONALE ⬢ 25 x 108 mm

	LARGH mm	LUNGH. mm	€
SCALPELLO A PUNTA			
P18500	-	500	**61,04**
SCALPELLO PIATTO			
C18500	30	500	**61,04**

HEX. 28



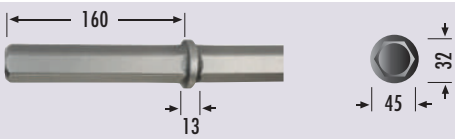


P19550

ESSAGONALE ⬢ 28 x 160 mm

	LARGH mm	LUNGH. mm	€
SCALPELLO A PUNTA			
P19550	-	550	**85,83**

HEX. 32



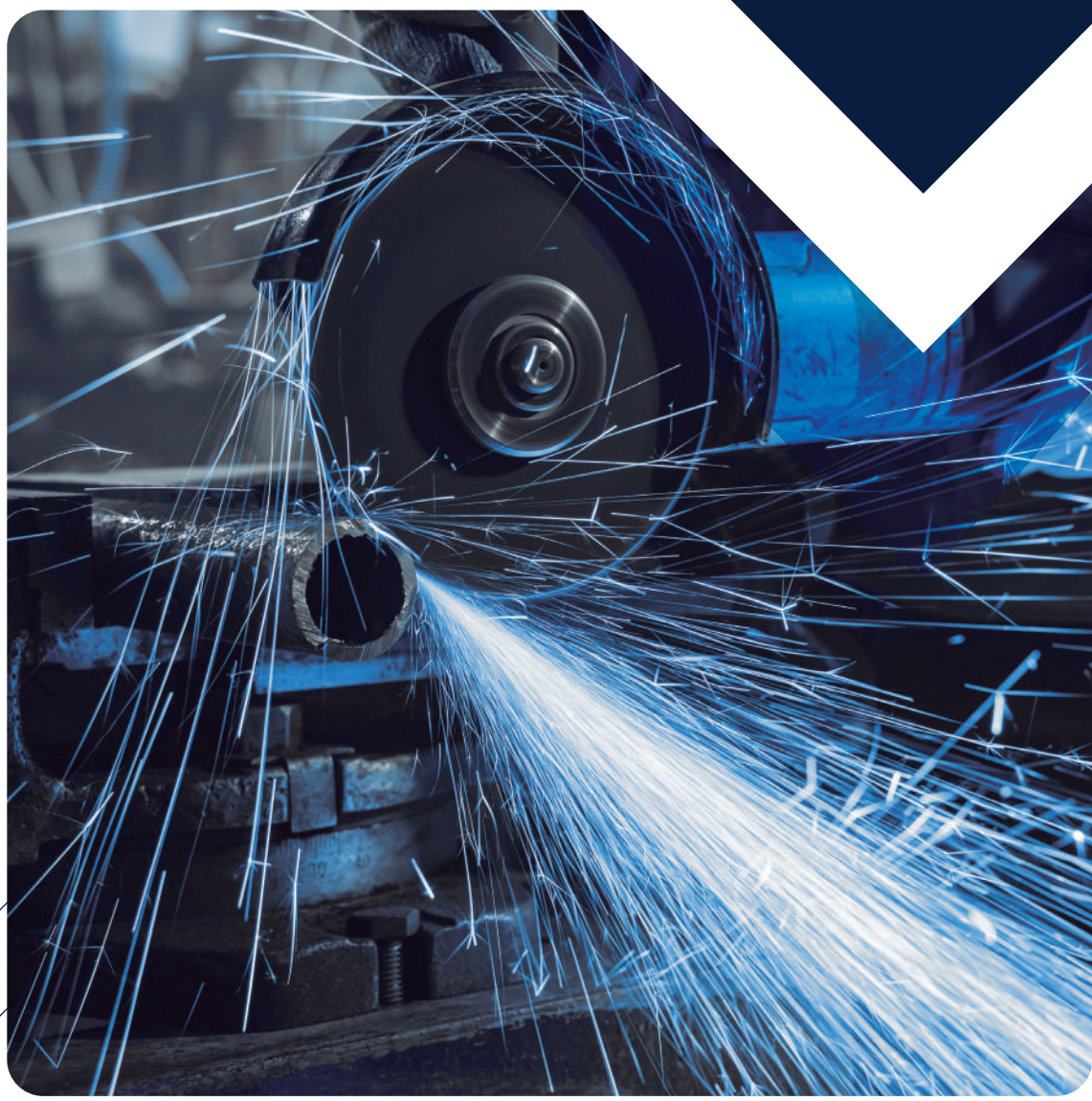


P20550

ESSAGONALE ⬢ 32 x 160 mm

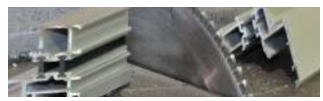
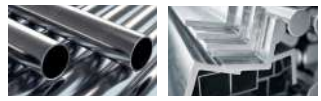
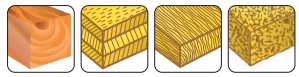
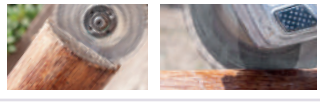
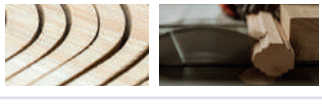
	LARGH mm	LUNGH. mm	€
SCALPELLO A PUNTA			
P20550	-	550	**101,08**

BLUE-MASTER®
by celesa

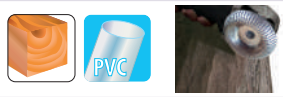
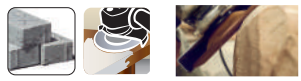


DISCHI DA TAGLIO

GUIDA PER LA SELEZIONE DEI DISCHI DA TAGLIO

REFERENZA		MATERIALE	MACCHINA	APPLICAZIONE				Pag.	
FF93		HSS	TRONCATRICE	TAGLIO < 5 mm 	Ø EXT. 20-315	e mm 0,2-6	Z 24-200	520	METALLO
FF94		HSS	TRONCATRICE	TAGLIO > 5 mm 	Ø EXT. 50-315	e mm 0,5-6	Z 20-100	521	
FF68		HSS OX	TRONCATRICE		Ø EXT. 175-550	e mm 1,6-4	Z 70-340	521	
S5CM		MD	TRONCATRICE		Ø EXT. 160-400	e mm 2,8-3,6	Z 48-120	522	
S8CM		MD	TRONCATRICE		Ø EXT. 180-355	e mm 1,8-2,2	Z 44-60	522	
DD7		TOP METAL 	SMERIGLIATRICE	 INOX Cu-Ni-La GHISA	Ø EXT. 105-400	e mm 1,2-2,5	CONTINUO	530	
DD36		HCS	SMERIGLIATRICE	 	Ø EXT. 115	e mm 1	Z 60	530	
S7CM		MD	TRONCATRICE		Ø EXT. 150-355	e mm 2,2-2,6	Z 30-80	522	LEGNO EXTRA
S1CM		MD	TRONCATRICE		Ø EXT. 160-700	e mm 2,5-5,2	Z 16-120	523	
S4CM		MD	TRONCATRICE		Ø EXT. 127-230	e mm 2,6-2,8	Z 10-64	523	
S2CM		MD	TRONCATRICE		Ø EXT. 200-350	e mm 3,2-3,6	Z 60-108	524	
SINC		MD	TRONCATRICE		Ø EXT. 80-160	e mm 3,6	Z 22	524	
S3CM		MD	SEGATRICE	 	Ø EXT. 15-200	Ø INT. 3,5-6	Z 12-32	524	
S6CM		MD	TRONCATRICE		Ø EXT. 220-350	e mm 3,2-3,6	Z 42-72	525	
S11CM		PCD	TRONCATRICE		Ø EXT. 254-305	Ø INT. 2,6-2,8	Z 60-80	525	
DD37		CV	SMERIGLIATRICE		Ø EXT. 110-125	e mm 1,2	Z 40-100	526	
DD23		MD	SMERIGLIATRICE		Ø EXT. 115-125	e mm 3,8	Z 3-6	526	

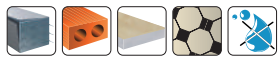
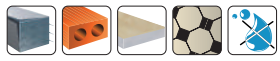
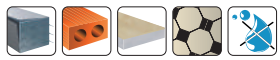
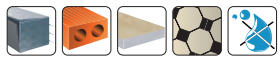
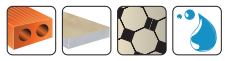
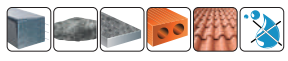
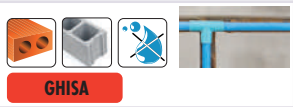
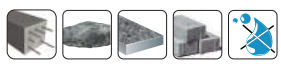
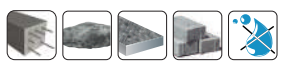
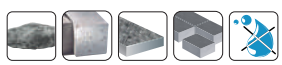
GUIDA PER LA SELEZIONE DEI DISCHI DA TAGLIO

REFERENZA		MATERIALE	MACCHINA	APPLICAZIONE				Pag.	
DMA115		HCS	SMERIGLIATRICE		Ø EXT. 115	Ø INT. 22,23	R.P.M. 12.500	527	LEGNO EXTRA
DMB100		HCS	SMERIGLIATRICE		Ø EXT. 100	Ø INT. 22,23	R.P.M. 12.500	527	
DMC125		HCS	SMERIGLIATRICE		Ø EXT. 125	Ø INT. 22,23	R.P.M. 12.500	527	
NEW DMR		HCS	SMERIGLIATRICE		Ø EXT. 115 125	Ø INT. 22,23	R.P.M. 12.500 12.500	527	
NEW FRDB			SMERIGLIATRICE	M14x2 	Ø48		R.P.M. 12.500	528	
NEW FEDB			SMERIGLIATRICE	M14x2 	Ø30		R.P.M. 12.500	528	
NEW FDB			SMERIGLIATRICE	M14x2 	Ø20 Ø25 Ø30		R.P.M. 12.500	528	
NEW DMD		EXTRA HARD QUALITY	SMERIGLIATRICE		Ø EXT. 115 125	Ø INT. 22,23	R.P.M. 12.500	529	
NEW DME		EXTRA HARD QUALITY	SMERIGLIATRICE		Ø EXT. 102	Ø INT. 22,23	R.P.M. 11.000	529	
DD34		MD EXTRA HARD QUALITY	SMERIGLIATRICE		Ø EXT. 115 125	Ø INT. 22,23	R.P.M. 13.300 12.250	529	
S9CM		MD	TRONCATRICE		Ø EXT. 300-350	e mm 3,2-4,4	Z 60-108	525	MULTIUSO
S10CM		PCD	TRONCATRICE		Ø EXT. 160-230	e mm 2,2/1,6	Z 6	525	
NEW DD27		MD	SMERIGLIATRICE	Al 	Ø EXT. 125	e mm 1,2	Z 24	526	
SCEP		TOP MULTIFUNCTION	SMERIGLIATRICE	 GHISA	115-125 230-300 355-400	2,2-2,2 3-3,2 3,5-3,5	8-9 18-22 26-30	530	
SCMD		Tungsteno	SMERIGLIATRICE		Ø EXT. 115-230	e mm 1,6-3,0	SEGMENTADO	531	
MDT			SMERIGLIATRICE		Ø EXT. 50-115	e mm 1,8-5	SEGMENTADO	531	
FFLATIG RFLATIG		HSS	MACCHINA DA TAGLIO DEL TUBO		Ø EXT. 200-300	e mm 2-3	CONTINUO 220	532	

ACCESSORI PER SEGHE - ANELLI CIRCOLARI E DISCHI DA TAGLIO

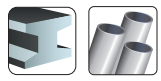
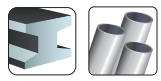
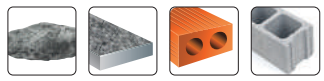
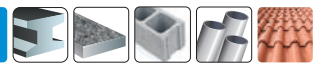
CRS			SMERIGLIATRICE	Ø EXT. 20-40	Ø INT. 16-32	e mm 1,4-2,2	532
ADQCA			SMERIGLIATRICE		M14x2		532

GUIDA PER LA SELEZIONE DEI DISCHI DA TAGLIO

REFERENZA		MATERIALE DI FABBRICAZIONE	MACCHINA	APPLICAZIONE	Ø EXT.	e mm	Grana	Pag.
DD1		DIAMOND GENERAL DE OBRA	SMERIGLIATRICE		115-125-180 230-300-350	2-2-2,4 2,8-3-3,2	9-9-14 18-22-24	533
DD2		TOP DIAMOND GENERAL DE OBRA ALTA PRODUZIONE	SMERIGLIATRICE		115-125 180-230	1,8-2,2 2,2-2,4	9-9 14-18	533
DD3		TURBO	SMERIGLIATRICE		115-125 180-230	2-2,2 2,8-2,8	CONTINUO	533
DD4		TOP TURBO ALTA PRODUZIONE	SMERIGLIATRICE		115-125 180-230	1,8-2,5 2,5-2,8	CONTINUO	534
NEW DD29		TWIN TILE DOUBLE FACE	SMERIGLIATRICE		125	1,6	40-45 50-60	534
DD6		TOP TILE ALTA PRODUZIONE	SMERIGLIATRICE		115-125 180-230	1,5-1,5 1,8-2,0	CONTINUO	534
DD8		XCLEAN TILE ALTA PRODUZIONE	SMERIGLIATRICE		115 125	1,4 1,4	CONTINUO	535
DD35		3X DOUBLE FACE	SMERIGLIATRICE		115 125	1,5	CONTINUO	535
DD5		DIAMOND H_2O	SMERIGLIATRICE		115-125 180-230	2-2,2 2,4-2,8	CONTINUO	536
DD9		CANTERO	SMERIGLIATRICE		115 125 230	2 2 2,8	9 9 18	536
DD12		MARMOLISTA	SMERIGLIATRICE		115-125 300-350	2-2 3-3,2	9-9 22-24	536
DD13		ABRASIVES	SMERIGLIATRICE		350 400	3,2 3,4	21 24	537
DD14		ASPHALT	SMERIGLIATRICE		300 350 400	3 3,2 3,4	18 21 24	537
DD15		CONCRETE	SMERIGLIATRICE		115-125-230 300-350	2,5-2,5-2,8 3,2-3,4	9-9-18 22-24	537
DR		TOP WALL	SMERIGLIATRICE	 GHISA	115 125 150	6,4 6,4 6,4	8 9 12	538
NEW DD39		2X	SMERIGLIATRICE		125	22,23	50-60 40-50 35-40	538
DD22		MD EXTRA HARD QUALITY	SMERIGLIATRICE		115	22,23		538
DD10		UNIVERSAL STONE	SMERIGLIATRICE		115 125 180	16 20 28	LAVORO SUPERFICI	539
DD11		TOP STONE	SMERIGLIATRICE		115 125 180	16 20 28	LAVORO SUPERFICI	539
DD20		TOP STONE THREAD	SMERIGLIATRICE	 M14x2	115 125	18 20	LAVORO SUPERFICI	539
NEW DD40		BOOMERANG	SMERIGLIATRICE		115	22,23		539

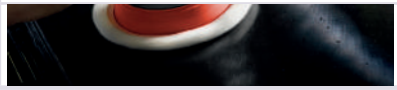
EDILIZIA

GUIDA PER LA SELEZIONE DEI DISCHI DA TAGLIO

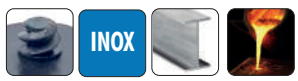
REFERENZA		QUALITÀ MATERIALE	MACCHINA	FORMA		APPLICAZIONE	Ø EXT.	e mm		Pag.
AB05		★★	SMERIGLIATRICE	T41 TAGLIO	90°	INOX 	115 125	1		541
AB11		★★★	SMERIGLIATRICE	T41 T42 TAGLIO	90°	INOX 	115 125 230	1 1,9 2,5	Grana 46/60 30/36	541
AB15		★★★	SMERIGLIATRICE	T27 LUCIDATURA	15°	INOX 	115 125		Grana 40/120	543
AB20		★★★	SMERIGLIATRICE	T27 SGROSSATURA LUCIDATURA	15°	INOX 	115 125		Grana 40/120	543
AB17		★★★	SMERIGLIATRICE	T42 LUCIDATURA	90°		115 125 230	2,5	Grana 30/36	542
AB18		★★★	SMERIGLIATRICE	T41 SGROSSATURA LUCIDATURA	90°	INOX 	115 125 230	1,6 1,6 2,0	Grana 36/46	542
DD21			SMERIGLIATRICE			INOX GHISA 	115 125			543

INOX METAL STONE MULTIFUNCTION

DISCO LUCIDANTE - CORPO LEVIGATRICE E ACCESSORI

DD24		FELTRO	LUCIDATORE	LUCIDANTE ANTIRUGGINE Lucidatura e finitura di superfici.		100	Ø INT. 22,23	544
DD25		VELCRO	LUCIDATORE	CORPO LEVIGATRICE Levigare e lucidare le superfici		100 115 125	Ø INT. M14x2	544
DD26			LUCIDATORE	DISCO PER LUCIDATURA DI PIETRA Lucidatura ottimale delle superfici.		100	Grana 50/100/50/300 500/800/1000 1500/2000/3000	544
DD28		VELCRO	LUCIDATORE	LEVIGATRICE IN OSSIDO DI ALLUMINIO Finitura a seconda della grana da scegliere.		100 115 125	Grana 60/80/120/240	545
DD33		VELCRO	LUCIDATORE	DISCO IN FELTRO Lucidatura, finitura e brillantatura su ogni tipo di superficie.		100 115 125	e mm 6	545
DD31		VELCRO	LUCIDATORE	SPUGNA LUCIDATRICE Finitura fine. Specifico per automotive e nautiche.		100 115 125	e mm 25	545
DD32		VELCRO	LUCIDATORE	DISCO IN LANA Lucidatura, finitura e brillantatura finale.		100 115 125	e mm 25	545

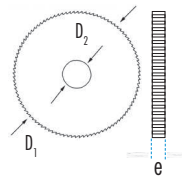
SUPPORTO MULTILEVIGATURA CON CAMBIO RAPIDO CDR E ACCESSORI

NEW RLOC		CDR 	SMERIGLIATRICE DRITTA	NEW RLOC4 RLOC5			546 547
NEW RLOC1				NEW RLOC6			546 547
NEW RLOC2				NEW RLOC7			546 547
NEW RLOC3				NEW RLOC8			546 547

NASTRI ABRASIVI E LEVIGATRICI A VENTAGLIO

AB50		★★★	NASTRI ABRASIVI		L1 100	L2 690	Grana 40-120	548
FP			LEVIGATRICI A VENTAGLIO		Ø EXT. 30 / 40 50 / 60 / 80		Grana 40-120	548

SEGA CIRCOLARE PER METALLO, TAGLIO SOTTILE fino a 5 mm



Ref. FF93 | HSS | DIN 1837 | TAGLIO < 5 mm





D1 mm	e mm	D2 mm	Z	FF93 €
20	0,20	5	80	20,36
20	0,25	5	64	20,36
20	0,30	5	64	18,29
20	0,40	5	64	18,29
20	0,50	5	48	17,60
20	0,60	5	48	17,60
20	0,80	5	48	17,60
20	1,00	5	40	17,60
20	1,20	5	40	20,36
20	1,60	5	40	22,39
20	2,00	5	32	23,26
20	2,50	5	32	28,01
20	3,00	5	32	30,28
20	4,00	5	24	40,06
20	5,00	5	24	46,97
20	6,00	5	24	53,50
25	0,20	8	80	20,89
25	0,25	8	80	20,89
25	0,30	8	80	19,46
25	0,40	8	64	19,46
25	0,50	8	64	18,54
25	0,60	8	64	18,54
25	0,80	8	48	18,54
25	1,00	8	48	18,54
25	1,20	8	48	21,32
25	1,60	8	40	22,77
25	2,00	8	40	24,36
25	2,50	8	40	26,38
25	3,00	8	32	35,82
25	4,00	8	32	42,50
25	5,00	8	32	49,74
25	6,00	8	32	55,73
32	0,20	8	100	22,33
32	0,25	8	100	22,33
32	0,30	8	80	20,36
32	0,40	8	80	20,36
32	0,50	8	80	19,45
32	0,60	8	64	19,45
32	0,80	8	64	19,45
32	1,00	8	64	19,45
32	1,20	8	48	22,80
32	1,60	8	48	22,92
32	2,00	8	48	25,84
32	2,50	8	40	27,98
32	3,00	8	40	31,19
32	4,00	8	40	45,42
32	5,00	8	32	55,31
32	6,00	8	32	58,52

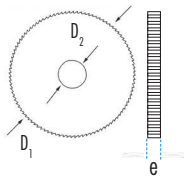
D1 mm	e mm	D2 mm	Z	FF93 €
40	0,20	10	128	24,15
40	0,25	10	100	24,15
40	0,30	10	100	23,25
40	0,40	10	100	23,25
40	0,50	10	80	21,73
40	0,60	10	80	21,73
40	0,80	10	80	21,73
40	1,00	10	64	21,73
40	1,20	10	64	23,36
40	1,60	10	64	24,79
40	2,00	10	48	26,85
40	2,50	10	48	29,99
40	3,00	10	48	35,43
40	4,00	10	40	41,10
40	5,00	10	40	62,29
40	6,00	10	40	68,40
50	0,20	13	128	32,88
50	0,25	13	128	28,82
50	0,30	13	128	26,20
50	0,40	13	100	26,20
50	0,50	13	100	24,79
50	0,60	13	100	24,79
50	0,80	13	80	24,79
50	1,00	13	80	24,79
50	1,20	13	80	26,20
50	1,60	13	64	28,56
50	2,00	13	64	30,84
50	2,50	13	64	33,02
50	3,00	13	48	37,80
50	4,00	13	48	43,75
50	5,00	13	48	57,96
50	6,00	13	40	77,46
63	0,25	16	160	35,11
63	0,30	16	128	29,83
63	0,40	16	128	29,83
63	0,50	16	128	28,68
63	0,60	16	100	28,68
63	0,80	16	100	28,68
63	1,00	16	100	28,68
63	1,20	16	80	29,64
63	1,60	16	80	33,08
63	2,00	16	80	35,64
63	2,50	16	64	37,61
63	3,00	16	64	41,70
63	4,00	16	64	52,50
63	5,00	16	48	66,44
63	6,00	16	48	74,26
80	0,30	22	160	39,27
80	0,40	22	160	39,27
80	0,50	22	128	34,12
80	0,60	22	128	34,12
80	0,80	22	128	34,12
80	1,00	22	100	34,12
80	1,20	22	100	35,17
80	1,60	22	100	37,27
80	2,00	22	80	41,04
80	2,50	22	80	49,11
80	3,00	22	80	53,55
80	4,00	22	64	65,66
80	5,00	22	64	80,63
80	6,00	22	64	90,49

D1 mm	e mm	D2 mm	Z	FF93 €
100	0,50	22	160	43,16
100	0,60	22	160	39,60
100	0,80	22	128	39,60
100	1,00	22	128	39,60
100	1,20	22	128	41,17
100	1,60	22	100	49,50
100	2,00	22	100	54,59
100	2,50	22	100	61,34
100	3,00	22	80	66,44
100	4,00	22	80	90,49
100	5,00	22	80	101,15
100	6,00	22	64	118,27
125	0,60	22	160	64,46
125	0,80	22	160	60,30
125	1,00	22	160	60,30
125	1,20	22	128	60,30
125	1,60	22	128	63,08
125	2,00	22	128	66,71
125	2,50	22	100	70,64
125	3,00	22	100	78,55
125	4,00	22	100	117,32
125	5,00	22	80	137,20
125	6,00	22	80	153,11
160	1,00	32	160	92,41
160	1,20	32	160	84,82
160	1,60	32	160	87,61
160	2,00	32	128	90,49
160	2,50	32	128	100,76
160	3,00	32	128	114,43
160	4,00	32	100	161,53
160	5,00	32	100	191,81
160	6,00	32	100	218,75
200	1,00	32	200	122,25
200	1,20	32	200	122,25
200	1,60	32	160	121,30
200	2,00	32	160	128,44
200	2,50	32	160	146,43
200	3,00	32	128	163,91
200	4,00	32	128	232,30
200	5,00	32	128	276,04
200	6,00	32	100	317,10
250	1,60	32	200	174,65
250	2,00	32	200	177,99
250	2,50	32	160	203,48
250	3,00	32	160	224,45
250	4,00	32	160	325,43
250	5,00	32	128	387,83
250	6,00	32	128	459,52
315	2,50	40	200	318,74
315	3,00	40	200	357,81
315	4,00	40	160	462,21
315	5,00	40	160	565,79
315	6,00	40	160	669,41

SEGA CIRCOLARE PER METALLO, TAGLIO GROSSO a partire da 5 mm

Ref. FF94 | HSS | DIN 1838 | TAGLIO > 5 mm





FF94

D1 mm	e mm	D2 mm	Z	€
50	0,5	13	48	28,15
50	0,6	13	48	28,15
50	0,8	13	40	28,15
50	1,0	13	40	28,15
50	1,2	13	40	29,44
50	1,6	13	32	32,02
50	2,0	13	32	33,34
50	2,5	13	32	35,44
50	3,0	13	24	38,30
50	4,0	13	24	49,62
50	5,0	13	24	61,83
50	6,0	13	20	67,45
63	0,5	16	64	31,14
63	0,6	16	48	31,14
63	0,8	16	48	31,14
63	1,0	16	48	31,14
63	1,2	16	40	31,58
63	1,6	16	40	35,70
63	2,0	16	40	38,48
63	2,5	16	32	40,20
63	3,0	16	32	44,54
63	4,0	16	32	53,89
63	5,0	16	24	65,04
63	6,0	16	24	72,87
80	0,6	22	64	34,67
80	0,8	22	64	34,67
80	1,0	22	48	34,67
80	1,2	22	48	35,77
80	1,6	22	48	38,43
80	2,0	22	40	40,42
80	2,5	22	40	48,16
80	3,0	22	40	52,52
80	4,0	22	32	64,23
80	5,0	22	32	78,80
80	6,0	22	32	88,11
100	0,6	22	80	41,23
100	0,8	22	64	38,92
100	1,0	22	64	38,92
100	1,2	22	64	40,41
100	1,6	22	48	48,74
100	2,0	22	48	53,61
100	2,5	22	48	60,22
100	3,0	22	40	64,90
100	4,0	22	40	88,63
100	5,0	22	40	99,15
100	6,0	22	32	116,05

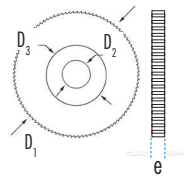
FF94

D1 mm	e mm	D2 mm	Z	€
125	0,8	22	80	59,18
125	1,0	22	80	59,18
125	1,2	22	64	59,18
125	1,6	22	64	62,23
125	2,0	22	64	64,83
125	2,5	22	48	69,24
125	3,0	22	48	76,43
125	4,0	22	48	114,61
125	5,0	22	40	134,53
125	6,0	22	40	149,34
160	1,0	32	80	83,64
160	1,2	32	80	83,70
160	1,6	32	80	86,48
160	2,0	32	64	88,75
160	2,5	32	64	98,77
160	3,0	32	64	112,87
160	4,0	32	48	157,98
160	5,0	32	48	188,14
160	6,0	32	48	212,65
200	1,2	32	100	97,86
200	1,6	32	80	118,44
200	2,0	32	80	127,05
200	2,5	32	80	143,23
200	3,0	32	64	160,76
200	4,0	32	64	225,74
200	5,0	32	64	268,72
200	6,0	32	48	312,36
250	1,6	32	100	164,49
250	2,0	32	100	175,73
250	2,5	32	80	199,58
250	3,0	32	80	221,23
250	4,0	32	80	323,71
250	5,0	32	64	378,52
250	6,0	32	64	448,04
315	2,5	40	100	314,12
315	3,0	40	100	350,89
315	4,0	40	80	453,27
315	5,0	40	80	550,60
315	6,0	40	80	670,60

SEGHE CIRCOLARI PER MACCHINE TRONCATRICI

Ref. FF68 | HSS | OX





FF68

D1 mm	e mm	D2 mm	D3 mm	Z	€
175	2,0	32	75	70/90/110/140/180	126,50
200	1,8/2"	32	90	80/100/128/160/200	130,16
225	1,6	32	90	90/120/140/180/220	143,84
225	2,0	32/40	90		136,77
250	1,2	32/40	100	90/100/128/160/200/250	197,23
250	1,6	32/40	100		157,06
250	2,0	32/40	100		154,99
250	2,5	32/40	100		173,40
275	1,6	32/40	100	90/110/120/140 180/220/280	207,41
275	2,0	32/40	100		204,01
275	2,5	32/40	100		212,31
300	2,0	32	100	90/120/160/180/220/300	250,72
300	2,5	32	100		256,41
300	3,0	32	100		310,00
315	2,0	32	100	80/100/120/160 200/240/320	273,51
315	2,5	32/40	100		274,67
315	3,0	32	100		329,43
350	2,5	32/40/50	120	90/110/120/140/160 180/220/280/350	351,01
350	3,0	32/40/50	120		394,32
370	3,0	50	120	90/110/120/140/160/200/220	496,88
400	3,0	40/50	120	100/120/160/200/240/310	578,95
400	3,5	40/50	120		631,37
425	3,0	40/50	120	110/160/220/260/320	651,91
425	3,5	40/50	120		713,43
450	3,0	40/50	120		847,91
450	3,5	40/50	130	110/130/160/200/260/310	920,85
450	4,0	40/50	130		968,71
500	3,5	40/50	130	100/120/140/180/220/340	1.185,25
500	4,0	40/50	130		1.253,64
525	4,0	50	140	100/140/160/210/270/330	1.424,60
550	4,0	50	140	120/140/170/220/280/340	1.492,97

Vedi altre gamme di seghe per troncatrici su richiesta, HSSCo, HSS TiN, ecc...

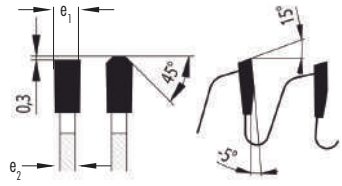
SEGHE CIRCOLARI CON DENTI IN METALLO DURO PER TAGLIO A IMMERSIONE O TRONCATRICE

Ref. S5CM

Sega specifica per profili di medio o piccolo spessore, metalli NON FERROSI come PROFILI IN ALLUMINIO, PVC e altre materie plastiche. PRODUZIONE DI FINESTRE. (Geometria di dente alternato trapezoidale con angolo negativo).

MD









S5CM

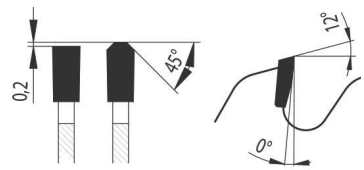
	D1 mm	e_1 mm	e_2 mm	D2 mm	Z	€
S5CM160202848	160	2,8	2,2	20	48	**95,20**
S5CM190302856	190	2,8	2,2	30	56	**108,77**
S5CM200303260	200	3,2	2,5	30	60	**133,39**
S5CM250303280	250	3,2	2,5	30	80	**185,07**
S5CM260303280	260	3,2	2,5	30	80	**188,67**
S5CM300303296	300	3,2	2,5	30	96	**217,57**
S5CM330303296	330	3,2	2,5	30	96	**241,49**
S5CM3503036108	350	3,6	2,8	30	108	**261,09**
S5CM3803036110	380	3,6	2,8	30	110	**280,78**
S5CM4003036120	400	3,6	2,8	30	120	**293,85**

Ref. S8CM

Sega per taglio di METALLO: Pieni, profili, tubi, ecc...
Non adatto per ACCIAIO INOX.

MD











S8CM

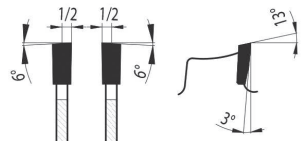
	D1 mm	e mm	D2 mm	Z	€
S8CM180201844	180	1,8	20,0	44	**161,84**
S8CM190201848	190	1,8	20,0	48	**171,91**
S8CM3052542260	305	2,2	25,4	60	**243,06**
S8CM3052542278	305	2,2	25,4	78	**281,65**
S8CM3552542266	355	2,2	25,4	66	**272,73**
S8CM3552542290	355	2,2	25,4	90	**324,21**

Ref. S7CM

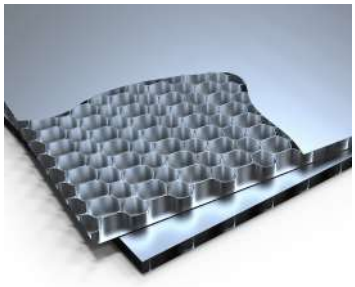
Sega specifica per PANNELLI SANDWICH, lamiere e metalli sottili.

MD











S7CM

	D1 mm	e mm	D2 mm	Z	€
S7CM150202230	150	2,2	20,0	30	**77,80**
S7CM160202230	160	2,2	20,0	30	**79,07**
S7CM170202232	170	2,2	20,0	32	**83,74**
S7CM180202236	180	2,2	20,0	36	**91,76**
S7CM190202238	190	2,2	20,0	38	**101,32**
S7CM200202440	200	2,4	20,0	40	**106,52**
S7CM210302440	210	2,4	30,0	40	**108,23**
S7CM216302440	216	2,4	30,0	40	**109,26**
S7CM230302444	230	2,4	30,0	44	**118,86**
S7CM235302444	235	2,4	30,0	44	**119,75**
S7CM250302448	250	2,4	30,0	48	**132,87**
S7CM300302460	300	2,4	30,0	60	**166,05**
S7CM300302480	300	2,4	30,0	80	**201,27**
S7CM3052542460	305	2,4	25,4	60	**167,37**
S7CM3052542480	305	2,4	25,4	80	**202,54**
S7CM350302680	350	2,6	30,0	80	**230,28**
S7CM3552542680	355	2,6	25,4	80	**231,90**

SEGHE CIRCOLARI CON DENTI IN METALLO DURO PER TAGLIO A IMMERSIONE O TRONCATRICE

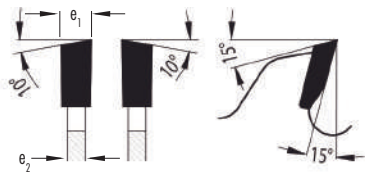
Ref. **S1CM**

Lama universale per legno naturale e altri materiali a base di legno (non adatta a melaminici, MDF, HDF, ecc...)

MD







S1CM

	D1 mm	e_1 mm	e_2 mm	D2 mm	Z	€
S1CM160202516	160	2,5	1,6	20	16	**55,29**
S1CM160202524	160	2,5	1,6	20	24	**63,81**
S1CM160202536	160	2,5	1,6	20	36	**71,77**
S1CM160202548	160	2,5	1,6	20	48	**83,05**
S99CM160202548	160	2,5	1,6	20	48	**28,96**
S99CM165202548	165	2,5	1,6	20	48	**32,98**
S1CM180202528	180	2,5	1,6	20	28	**74,79**
S1CM180202556	180	2,5	1,6	20	56	**94,03**
S1CM200202524	200	2,5	1,6	20	24	**69,27**
S1CM200202532	200	2,5	1,6	20	32	**80,30**
S1CM250303240	250	3,2	2,2	30	40	**110,56**
S1CM250303248	250	3,2	2,2	30	48	**119,03**
S1CM250303260	250	3,2	2,2	30	60	**121,52**
S1CM250303264	250	3,2	2,2	30	64	**124,56**
S1CM250303272	250	3,2	2,2	30	72	**135,57**
S1CM250303280	250	3,2	2,2	30	80	**146,55**
S1CM300303248	300	3,2	2,2	30	48	**137,97**
S1CM300303264	300	3,2	2,2	30	64	**155,47**
S1CM300303272	300	3,2	2,2	30	72	**161,31**
S1CM300303296	300	3,2	2,2	30	96	**181,78**
S1CM315303248	315	3,2	2,2	30	48	**155,47**
S1CM350303654	350	3,6	2,5	30	54	**175,95**
S1CM350303672	350	3,6	2,5	30	72	**190,77**
S1CM350303684	350	3,6	2,5	30	84	**199,56**
S1CM3503036108	350	3,6	2,5	30	108	**226,08**
S1CM400303648	400	3,6	2,5	30	48	**156,52**
S1CM400303664	400	3,6	2,5	30	64	**202,48**
S1CM400303684	400	3,6	2,5	30	84	**226,08**
S1CM400303696	400	3,6	2,5	30	96	**234,59**
S1CM4003036120	400	3,6	2,5	30	120	**249,42**
S1CM45030456	450	4,0	2,8	30	56	**198,22**
S1CM45030472	450	4,0	2,8	30	72	**265,78**
S1CM50030464	500	4,0	2,8	30	64	**234,38**
S1CM50030484	500	4,0	2,8	30	84	**312,47**
S1CM600305290	600	5,2	3,5	30	90	**756,38**
S1CM70030460	700	4,0	3,0	30	60	**526,96**



Ref. **S4CM**

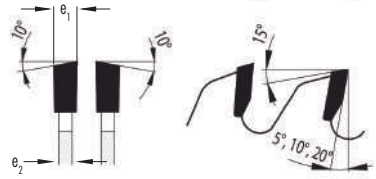
Lama universale per macchina elettroportatile specifica per materiali a base di legno.

MD









S4CM

	D1 mm	e_1 mm	e_2 mm	D2 mm	Z	€
S4CM127202610	127	2,6	1,6	20	10	**39,50**
S4CM127202620	127	2,6	1,6	20	20	**55,29**
S4CM127202636	127	2,6	1,6	20	36	**66,06**
S4CM130202610	130	2,6	1,6	20	10	**42,01**
S4CM130202620	130	2,6	1,6	20	20	**55,29**
S4CM130202636	130	2,6	1,6	20	36	**68,31**
S4CM140202610	140	2,6	1,6	20	10	**42,01**
S4CM140202620	140	2,6	1,6	20	20	**57,79**
S4CM140202642	140	2,6	1,6	20	42	**72,03**
S4CM150202612	150	2,6	1,6	20	12	**47,27**
S4CM150202624	150	2,6	1,6	20	24	**57,79**
S4CM150202640	150	2,6	1,6	20	40	**74,54**
S4CM150202648	150	2,6	1,6	20	48	**83,57**
S4CM160202612	160	2,6	1,6	20	12	**47,27**
S4CM160202624	160	2,6	1,6	20	24	**57,79**
S4CM160202640	160	2,6	1,6	20	40	**78,30**
S4CM160202648	160	2,6	1,6	20	48	**84,26**
S4CM170302612	170	2,6	1,6	30	12	**50,02**
S4CM170302624	170	2,6	1,6	30	24	**60,55**
S4CM170302640	170	2,6	1,6	30	40	**74,79**
S4CM170302654	170	2,6	1,6	30	54	**92,29**
S4CM180302612	180	2,6	1,6	30	12	**50,02**
S4CM180302624	180	2,6	1,6	30	24	**60,55**
S4CM180302640	180	2,6	1,6	30	40	**76,32**
S4CM180302656	180	2,6	1,6	30	56	**95,05**
S4CM184302612	184	2,6	1,6	30	12	**50,02**
S4CM184302624	184	2,6	1,6	30	24	**60,55**
S4CM184302640	184	2,6	1,6	30	40	**78,82**
S4CM184302656	184	2,6	1,6	30	56	**94,80**
S4CM190302614	190	2,6	1,6	30	14	**55,29**
S4CM190302624	190	2,6	1,6	30	24	**63,04**
S4CM190302630	190	2,6	1,6	30	30	**71,06**
S4CM190302640	190	2,6	1,6	30	40	**84,02**
S4CM190302656	190	2,6	1,6	30	56	**95,05**
S4CM200302816	200	2,8	1,8	30	16	**60,55**
S4CM200302830	200	2,8	1,8	30	30	**76,32**
S4CM200302840	200	2,8	1,8	30	40	**89,26**
S4CM200302864	200	2,8	1,8	30	64	**117,80**
S4CM210302818	210	2,8	1,8	30	18	**65,80**
S4CM210302832	210	2,8	1,8	30	32	**78,82**
S4CM210302840	210	2,8	1,8	30	40	**102,55**
S4CM210302864	210	2,8	1,8	30	64	**124,28**
S4CM216302824	216	2,8	1,8	30	24	**78,82**
S4CM216302848	216	2,8	1,8	30	48	**102,55**
S4CM216302864	216	2,8	1,8	30	64	**124,28**
S4CM230302820	230	2,8	1,8	30	20	**68,31**
S4CM230302834	230	2,8	1,8	30	34	**86,76**
S4CM230302848	230	2,8	1,8	30	48	**105,06**
S4CM230302864	230	2,8	1,8	30	64	**124,28**

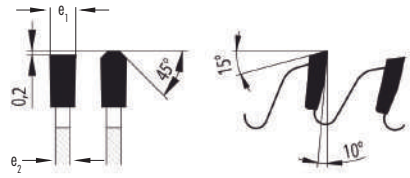
SEGHE CIRCOLARI CON DENTI IN METALLO DURO PER TAGLIO A IMMERSIONE O TRONCATRICE

Ref. S2CM

Lama specifica per melaminici, pannelli fenolici, MDF, HDF, ecc... si può utilizzare anche per metalli non ferrosi (Alluminio, Rame, Bronzo) con buon rendimento. Lavora sempre con incisori.

MD









LAVORA SEMPRE CON INCISORI.

S2CM

	D1 mm	e_1 mm	e_2 mm	D2 mm	Z	€
S2CM200303264	200	3,2	2,2	30	64	**144,35**
S2CM250303260	250	3,2	2,2	30	60	**155,79**
S2CM250303280	250	3,2	2,2	30	80	**184,51**
S2CM300303272	300	3,2	2,2	30	72	**184,51**
S2CM300303272HP*	300	3,2	2,2	30	72*	**184,51**
S2CM300303296	300	3,2	2,2	30	96	**219,24**
S2CM3503036108	350	3,6	2,5	30	108	**248,22**

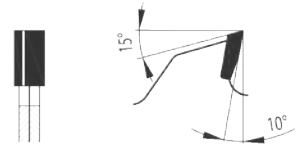
* Alto rendimento

Ref. SINC

Speciale per risolvere il problema dello spargimento del foglio di melanina inferiore, durante il taglio del laminato. Specifico per il taglio di laminato, truciolare e pannello sandwich.

MD





DISCHI INCISORI





DISCO INCISORE

SINC

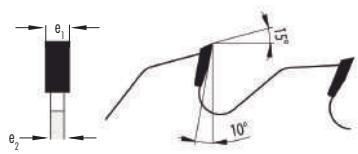
	D1 mm	e_1 mm	e_2 mm	D2 mm	Z	€
SINC80203620	80	3,6	2,8	20	20	**104,11**
SINC100203624	100	3,6	2,8	20	24	**110,14**
SINC120203624	120	3,6	2,8	20	24	**112,21**
SINC125203624	125	3,6	2,8	20	24	**112,21**
SINC140203628	140	3,6	2,8	20	28	**128,27**
SINC160203632	160	3,6	2,8	20	32	**134,73**

Ref. S3CM

Specifico per il taglio di laminato, truciolare, pannello sandwich.
Lame ad uso esclusivo per scanalature.

MD











S3CM

	D1 mm	e_1 mm	e_2 mm	D2 mm	Z	€
S3CM150303512	150	3,5	2,5	30	12	**69,20**
S3CM15030412	150	4	2,5	30	12	**71,65**
S3CM15030512	150	5	3,5	30	12	**74,33**
S3CM15030612	150	6	3,5	30	12	**74,33**
S3CM18030416	180	4	2,5	30	16	**81,83**
S3CM18030516	180	5	3,5	30	16	**84,50**
S3CM18030616	180	6	3,5	30	16	**91,60**
S3CM20030432	200	4	2,5	30	32	**126,07**

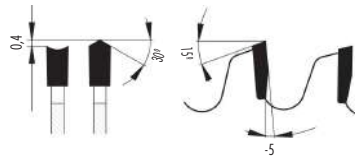
SEGHE CIRCOLARI CON DENTI IN METALLO DURO PER TAGLIO A IMMERSIONE O TRONCATRICE

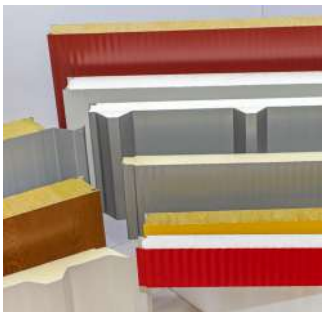
Ref. S6CM

Sega specifica per melaminici, plastiche, pannello fenolico, MDF, HDF, HPL, per tagliare senza incisori.

MD









TAGLIO SENZA INCISORI

DISCO PER MELAMINICO SENZA INCISORI

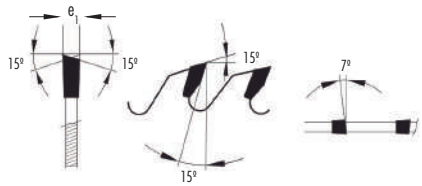
	D1 mm	e mm	D2 mm	Z	S6CM €
S6CM220303242	220	3,2	30	42	**163,01**
S6CM250303248	250	3,2	30	48	**186,33**
S6CM303303260	303	3,2	30	60	**233,37**
S6CM350303672	350	3,6	30	72	**284,18**

Ref. S11CM

Sega per il taglio del legno e suoi derivati nelle Troncatrici.

MD









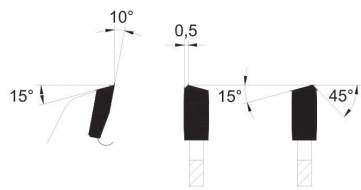
	D1 mm	e1 mm	D2 mm	Z	S11CM €
S11CM260302660	260	2,6	30	60	**146,74**

Ref. S9CM

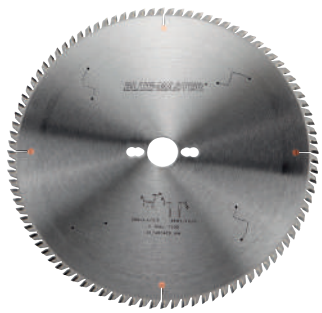
Sega per il taglio di Materie Plastiche in genere: METACRILATO, TERMOPLASTICHE in GENERE, FOGLI DI POLIURETANO,...

MD









	D1 mm	e1 mm	D2 mm	Z	S9CM €
S9CM300303260	300	3,2	30	60	**311,27**
S9CM300303296	300	3,2	30	96	**348,15**
S9CM3503035108	350	3,5	30	108	**422,23**
S9CM350304472	350	4,4	30	72	**516,82**
S9CM350604472	350	4,4	60	72	**516,82**

Ref. S10CM

Sega per il taglio di PANNELLI IN CARTONE GESSO, FIBROCEMENTO, PANNELLI ACRILICI IN GENERE. Realizzato con lastre di diamante policristallino, moltiplica le prestazioni.

PCD







	D1 mm	e1 mm	D2 mm	Z	S10CM €
S10CM160202206	160	2,2/1,6	20	6	**243,33**
S10CM210202206	210	2,2/1,6	20	6	**274,51**
S10CM230202206	230	2,2/1,6	20	6	**305,38**

SEGHE CIRCOLARI IN ACCIAIO AL CARBONIO PER USO CON RADIALE

Ref. DD37 — CV — PVC

Disco in acciaio al carbonio per il taglio del legno.













Taglio intensivo del legno.
Utilizzare in smerigliatrice.





DD37	"	Ø mm	Ø Int. mm	e mm		Z	R.P.M.	€/3U.
DD37-110Z40	4,3	110	22,23	1,2	3	40	13.200	**21,33**
DD37-110Z60	4,3	110	22,23	1,2	3	60	13.200	**22,46**
DD37-110Z80	4,3	110	22,23	1,2	3	80	13.200	**23,03**
DD37-110Z100	4,3	110	22,23	1,2	3	100	13.200	**24,16**
DD37-125Z40	5	125	22,23	1,2	3	40	11.000	**22,40**
DD37-125Z60	5	125	22,23	1,2	3	60	11.000	**23,59**
DD37-125Z80	5	125	22,23	1,2	3	80	11.000	**24,18**
DD37-125Z100	5	125	22,23	1,2	3	100	11.000	**25,37**

SEGHE CIRCOLARI CON DENTI IN METALLO DURO

Ref. DD23 — MD — PVC



Disco per tagliare e scanalare il legno.
Denti in metallo duro, elevata resistenza e durata.
Utilizzare in Smerigliatrice.











Speciale per taglio e scanalatura, generazione di forme, rilievi e figure in legno.



TAGLIO



SCALANATURA



DD23	"	Ø mm	Ø Int. mm	e mm		Z	R.P.M.	€
DD23-115	4,5	115	22,23	3,8	1	3	15.500	**17,21**
DD23-125	5	125	22,23	3,8	1	6	13.300	**19,68**

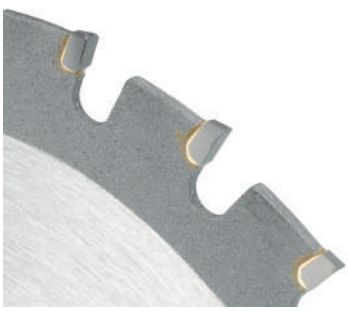
NEW

Ref. DD27 — MD — 65 Mn — Al



Disco con punta in metallo duro per il taglio di alluminio, legno e plastica.
Include anelli riduttori da 22,22x16 mm e 22,22x20 mm.









MULTIFUNCTION

DD27	"	Ø mm	Ø Int. mm	e mm		Z	R.P.M.	€
DD27-125	5	125	22,22	1,2	1	24	11.000	**26,37**

DISCHI PER SGROSSATURA DI LEGNO PER USO CON RADIALE

Ref. DMA115

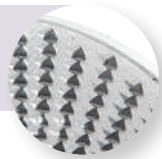
HCS

Disco PIATTO speciale per grande sgrossatura in legno e materiali non metallici.









Facilita un veloce lavoro di pulizia, sgrossatura e finitura su superfici piane.
Valido per modellare e lucidare ad angolo con facile manovrabilità.



	DMA			
	D1 mm	D2 mm	R.P.M.	€
DMA115	115	22,23	12.500	**29,64**

Ref. DMB100

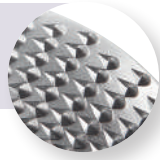
HCS

Disco OBLIQUO TONDO speciale per grande sgrossatura in legno e materiali non metallici.









Facilita un veloce lavoro di pulizia, sgrossatura e finitura su superfici sia curve che piane: travi in legno tarlate e tutti i tipi di strutture in legno.
Valido per modellare e lucidare ad angolo con facile manovrabilità.



	DMB			
	D1 mm	D2 mm	R.P.M.	€
DMB100	100	22,23	12.500	**28,79**

Ref. DMC125

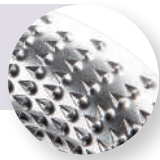
HCS

Disco con BORDO IN RAGGIO speciale per grande sgrossatura in legno e materiali non metallici.









Facilita un veloce lavoro di pulizia, sgrossatura e finitura su superfici sia curve che piane. Funziona sia davanti che sul bordo. Particolarmente indicato per lavori su tutti i tipi di strutture in legno, travi in legno tarlate, ecc....
Si distingue per la sua versatilità nel lavorare su superfici con ogni tipo di curvatura. Valido per modellare e lucidare ad angolo con facile manovrabilità.



	DMC			
	D1 mm	D2 mm	R.P.M.	€
DMC125	125	22,23	12.500	**31,90**

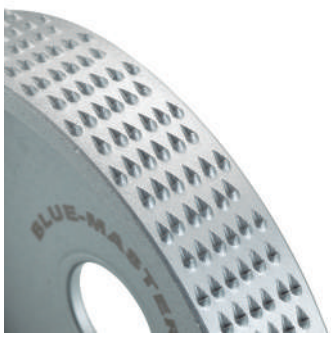
DISCO PER SCANALATURA E SGRASSATURA NEL LEGNO PER USO CON RADIALE

NEW

Ref. DMR

HCS

Disco speciale per sgrossatura di legno e materiali NON METALLICI.









Scanalatura, molatura, pulizia e finitura su tutti i tipi di superfici. Lavora con la parte seghettata del disco e ottieni ottimi risultati. Particolarmente indicato per interventi su tutti i tipi di strutture in legno, pulizia di travi tarlate, ecc.... Valido per scanalare, modellare e lucidare. Utilizzo semplice, facile manovrabilità.



	DMR			
	Ø mm	Ø Int. mm	R.P.M.	€
DMR115	115	22,23	12.500	**28,96**
DMR125	125	22,23	12.500	**29,28**

FRESA PER SCANALATURA NEL LEGNO PER USO CON RADIALE

NEW

Ref. **FRDB**

M14x2



Fresa per scanalare tutti i tipi di legno.

Realizzata in acciaio al carbonio ad alta resistenza. Elevata durezza e lunga durata. Specifica per la lavorazione del legno, legno massello, tavole multistrato, tavole a media densità. Morsetto filettato M14X2 specifico per smerigliatrice.









	FRDB					
	D1 mm	D2 mm	L1 mm	L2 mm	R.P.M.	€
FRDB048X8,5	48	22	85	8,5	12.500	**30,53**

FRESA SFERICA PER LEGNO PER USO CON RADIALE

NEW

Ref. **FEDB**

M14x2



Fresa a sfera per modellare il legno.

Realizzata in acciaio al carbonio ad alta resistenza. Elevata durezza e lunga durata. Specifica per la lavorazione del legno, legno massello, tavole multistrato, tavole a media densità. Morsetto filettato M14X2 specifico per smerigliatrice.











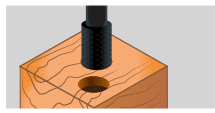
	FEDB					
	D1 mm	D2 mm	L1 mm	L2 mm	R.P.M.	€
FEDB030	30	22	85	26	12.500	**27,41**

FRESA PER SGROSSATURA DI LEGNO PER USO CON RADIALE

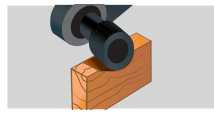
NEW

Ref. FDB

M14x2



FORATURA



SGROSSATURA



MODELLATURA



SMUSSAMENTO







Specifico per Sgrossatura, Foratura, Modellazione, Rifilatura del legno, Legno Massello, Pannelli Multistrato, Pannelli a Media Densità. Morsetto filettato M14x2 specifico per smerigliatrice.



		FBD			
		Ø mm	Ø Int. mm	R.P.M.	€
FDB020	M14x20	20,00	15,00	<20.000	**22,10**
FDB025	M14x25	25,00	20,00	<20.000	**25,33**
FDB030	M14x30	29,50	24,00	<20.000	**26,43**

DISCO PER INTAGLIARE E MODELLARE, GRANDE SGROSSATURA

NEW

Ref. DMD



EXTRA HARD QUALITY GUARANTEED SATISFACTION

Realizzato in acciaio al Manganese, offre una durezza e un'affilatura perfetta per intagliare e sagomare legno duro, legno tenero e tutti i tipi di materiali NON METALLICI. Elevata asportazione di materiale, grande sgrossatura e lunga durata di vita. Eccellente per lavori curvi, decorazione di mobili, intaglio e modellazione in generale.









DMD

	"	Ø mm	Ø Int. mm	R.P.M.	Z	€
DMD115	4,5	115	22,23	12.500	12	**31,41**
DMD125	5	125	22,23	12.500	12	**32,40**

DISCHI PER SGROSSATURA DI LEGNO PER USO CON RADIALE

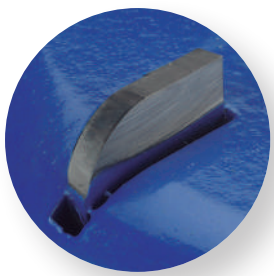
NEW

Ref. DME



EXTRA HARD QUALITY GUARANTEED SATISFACTION

Disco di grande sgrossatura per legno con denti in metallo duro. Elevata durezza e lunga durata. Specifico per modellare e sgrossare tutti i tipi di legno, naturali, duri e teneri.
Indispensabile per l'intaglio nei lavori di falegnameria. Attacco specifico per smerigliatrice.







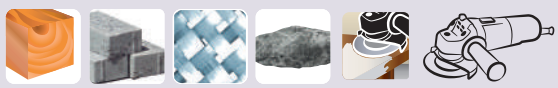


DME

	"	Ø mm	Ø Int. mm	R.P.M.	Z	€
DME102Z6	4	102	22,23	11.000	6	**44,05**

Ref. DD34

MD



Sgrossatura e modellatura del legno. Pulizia di superfici in calcestruzzo, cemento-colla e fibra di vetro. Pulizia delle superfici in genere. Design angolato, migliora l'ergonomia.

EXTRA HARD QUALITY GUARANTEED SATISFACTION





Utilizzare in smerigliatrice.

2 qualità a seconda del lavoro da svolgere:

Grana M - Sgrossatura Media.

Grana G - Sgrossatura Grossa.



Grana M



Grana G

LEGNO

DD34

	"	Ø mm	Ø Int. mm	e mm	R.P.M.	Grana	€
DD34-115G	4,5	115	22,23	3	13.300	G	**41,93**
DD34-115M	4,5	115	22,23	3	13.300	M	**41,93**
DD34-125G	5	125	22,23	3	12.250	G	**45,24**
DD34-125M	5	125	22,23	3	12.250	M	**45,24**

DISCO DA TAGLIO DIAMANTATO PER TUTTI I TIPI DI METALLI PER USO CON RADIALE

Ref. DD7













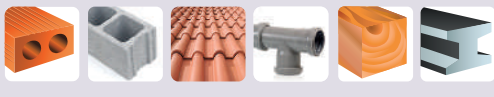
Taglio su tutti i tipi di metalli, profili, lamiere, tubi e travi di acciaio, acciaio inossidabile, acciaio strutturale, ghisa, ecc... Il diamante saldato sotto vuoto offre la massima durata e produttività nelle applicazioni di taglio dei metalli. Corpo speciale antirottura, riduzione di vibrazioni e scintille, maggiore durata rispetto al disco abrasivo. Stessa profondità di taglio per tutta la vita.
DIAMANTE SALDATO AL SOTTOVUOTO, NON SCADE.

TOP METAL

	Ø mm	Ø Int. mm	e mm	R.P.M.	DD7 €
DD7-105	105	20,00	1,20	15.500	**25,63**
DD7-115	115	22,23	1,20	13.300	**27,55**
DD7-125	125	22,23	1,20	12.250	**32,09**
DD7-180	180	22,23	1,80	8.500	**68,38**
DD7-230	230	22,23	2,00	6.500	**80,02**
DD7-300	300	25,40	2,20	5.500	**170,22**
DD7-355	355	25,40	2,50	5.500	**208,12**
DD7-400	400	25,40	2,50	5.000	**319,78**

DISCO DIAMANTATO SALDATO SOTTOVUOTO MULTIFUNZIONE

Ref. SCEP





ø 115
ø 125
ø 230



ø 300
ø 355
ø 400



Ideale per lavori su tutti i tipi di materiali. Mattone a vista, Refrattario. Tegola. Blocco e Tavelloni in calcestruzzo. Tubi in PVC. Legna. Acciaio. Fonderia. Disco da taglio multiuso per smerigliatrice. Realizzato in diamante saldato sotto vuoto. Alte prestazioni per il taglio di tutti i tipi di materiali.

Ø 115 - 125 - 230 mm - Lavori a secco, tuttavia, il raffreddamento con acqua aumenta le sue prestazioni.
Ø 300 - 355 - 400 mm - Lavori a secco o raffreddamento con acqua.







TOP MULTIFUNCTION

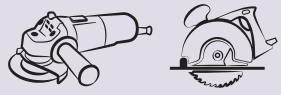
	"	Ø mm	Ø Int. mm	RPM	*H mm	*NºS	e mm	SCEP €
SCEP-115	4,5	115	22,23	13.300	4	8	2,2	**27,55**
SCEP-125	5	125	22,23	12.200	4	9	2,2	**32,09**
SCEP-230	9	230	22,23	6.600	4	18	3,0	**80,02**
SCEP-300	12	300	25,40	5.100	5	22	3,2	**170,22**
SCEP-355	14	355	25,40	4.300	5	26	3,5	**208,12**
SCEP-400	16	400	25,40	3.800	5	30	3,5	**319,78**

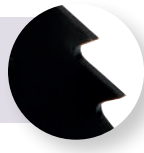
* H: Altezza del dente • * NºS: Numero di denti

DISCO IN HSS PER TAGLIO METALLI NON FERROSI PER UTILIZZO RADIALE

Ref. DD36











Disco HSS per il taglio di lamiere e tubi. Specifico per Metalli Non Ferrosi, Plastica e Legno. Utilizzare con smerigliatrice.

METAL

	"	Ø mm	Ø Int. mm	e mm	Z	R.P.M.	DD36 €
DD36-115Z60	4,5	115	22,23	1	60	10.000	**14,91**
DD36-125Z60	5	125	22,23	1	60	11.000	**16,12**

DISCO DA TAGLIO MULTIUSO IN CARBURO DI TUNGSTENO PER USO CON RADIALE

Ref. SCMD







Disco da taglio multiuso per smerigliatrice.

Lama da taglio in grani di carburo di tungsteno.

Alto rendimento in tutti i tipi di materiali NON FERROSI. Taglio rapido e preciso.

Ideale per la lavorazione di legno, legno con chiodi, plastica e cartongesso o lamine metalliche di spessore inferiore a 1 mm, oppure rame.



SCMD	Ø mm	Ø Int. mm	e mm	R.P.M.	€
SCMD115X1,60	115	22,2	1,6	13.300	**18,52**
SCMD125X1,60	125	22,2	1,6	12.250	**20,83**
SCMD230X1,60	230	22,2	1,6	10.500	**46,59**
SCMD350X3	350	25,4/20	3,0	4.400	**58,78**

DISCO DA TAGLIO MULTIUSO DIAMANTATO

Ref. MDT

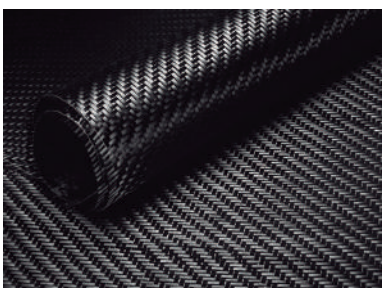


Disco da taglio multiuso per smerigliatrice.

Lama da taglio in grani di diamante.

Alto rendimento in tutti i tipi di materiali NON FERROSI. Taglio rapido e preciso.

Ideale per la lavorazione di porcellanico (sempre con acqua), PVC, plastiche rinforzate come poliestere, fibra di vetro, fibra di carbonio,...



FIBRA DI CARBONIO E MATERIALI COMPOSITI





MDT	Ø mm	Ø Int. mm	e mm	R.P.M.	€
MDT50X0,80	50	6,35	1,6	20.000	**65,78**
MDT10423	115	22,23	1,6	15.000	**68,74**
MDT115X2X22	115	22,23	2,0	15.000	**71,94**
MDT115X3X22	115	22,23	3,0	15.000	**76,43**
MDT115X4X22	115	22,23	4,0	15.000	**78,50**
MDT115X5X22	115	22,23	5,0	15.000	**80,87**

LAME CIRCOLARI PER IL TAGLIO DI TUBI FLESSIBILI IDRAULICI

Ref. FFLATIG
Ref. RFLATIG

HSS

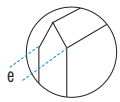


Disco di taglio speciale per tubi idraulici rinforzati a bassa, alta e altissima pressione. Tagliente smussato continuo. Prestazioni elevate in gomma e materie plastiche rinforzate con rete metallica o metallica, appositamente progettate per resistere ad alta pressione o abrasione.













Per tagliare tubi senza rinforzo o con rinforzo in metallo leggero.

FFLATIG

	Ø mm	e mm	Ø Int. mm	€
FFLATIG-200x2x32	200	2,0	32	**336,27**
FFLATIG-250x3x32	250	3,0	32	**450,51**
FFLATIG-300x3x32	300	3,0	32	**620,39**

Per il taglio di tubi con rinforzo in metallo HEAVY DUTY.

RFLATIG

	Ø mm	e mm	Ø Int. mm	Z	€
RFLATIG-200X2x32	200	2,0	32	220	**396,80**
RFLATIG-250X3x32	250	3,0	32	220	**531,60**
RFLATIG-300X3x32	300	3,0	32	220	**732,06**

ACCESSORI PER LAME CIRCOLARI

ANELLI DI RIDUZIONE PER LAME CIRCOLARI

e: Spessore dell'anello
Scegliere sempre un anello con spessore inferiore a quello del corpo della lama.



CRS

	Ø mm	Ø Int. mm	e mm	€
CRS16/12,7X1,6	16,0	12,7	1,6	**8,35**
CRS20/16X1,4	20,0	16,0	1,4	**8,35**
CRS25,4/20X2,0	25,4	20,0	2,0	**8,35**
CRS30/15X1,8	30,0	15,0	1,8	**8,35**
CRS30/16X1,4	30,0	16,0	1,4	**8,35**
CRS30/16X1,8	30,0	16,0	1,8	**8,35**
CRS30/18X1,8	30,0	18,0	1,8	**8,35**
CRS30/20X1,8	30,0	20,0	1,8	**8,35**
CRS30/25X1,8	30,0	25,0	1,8	**8,35**
CRS32/20X1,8	32,0	20,0	1,8	**8,35**
CRS32/20X2,2	32,0	20,0	2,2	**8,35**
CRS32/25X1,8	32,0	25,0	1,8	**8,35**
CRS32/25X2,2	32,0	25,0	2,2	**8,35**
CRS32/25,4X1,8	32,0	25,4	1,8	**8,35**
CRS32/25,4X2	32,0	25,4	2,0	**8,35**
CRS32/30X1,8	32,0	30,0	1,8	**8,35**
CRS32/30X2,2	32,0	30,0	2,2	**8,35**
CRS40/25X2,2	40,0	25,0	2,2	**8,35**
CRS40/25,4X2,2	40,0	25,4	2,2	**8,35**
CRS40/32X2,2	40,0	32,0	2,2	**8,35**

ADATTATORE CAMBIO RAPIDO SMERIGLIATRICE





Dado di blocaggio rapido M14x2.
Adatto a qualsiasi smerigliatrice con filetto M14x2.
Il disco deve essere centrato sull'anello di rinforzo del supporto dell'utensile elettrico, non sul dado.

ADQCA

	Ø Ext.	METRICO	€
ADQCA	46,30	M14X2	**36,77**

DISCHI DIAMANTATI PER EDILIZIA

DISCO DIAMANTATO GENERALE EDILIZIA

Ref. DD1



GENERALE EDILIZIA
Speciale per il taglio di calcestruzzo, mattone, marmo, piastrella e pietra.
Lavoro refrigerato con acqua.



EN13236







DIAMOND GENERAL DE OBRA

Include anello riduttore 25,4/20

	DD1							
	"	Ø mm	Ø Int. mm	RPM	*H mm	*NºS	e mm	€
DD1-115	4,5	115	22,23	13.200	10	9	2,0	**9,93**
DD1-125	5	125	22,23	12.200	10	9	2,0	**12,10**
DD1-180	7	180	22,23	8.400	10	14	2,4	**28,15**
DD1-230	9	230	22,23	6.500	10	18	2,8	**41,70**
DD1-300	12	300	25,4/20	5.100	10	22	3,0	**112,49**
DD1-350	14	350	25,4/20	4.400	10	24	3,2	**130,05**

* H: Altezza del dente • * NºS: Numero di denti

DISCO DIAMANTATO GENERALE EDILIZIA

Ref. DD2



Speciale per il taglio di calcestruzzo, mattone, marmo, piastrella e pietra.
Specifico per lavori a secco, tuttavia, il raffreddamento con acqua aumenta esponenzialmente le sue prestazioni. Alto rendimento.



EN13236







TOP DIAMOND GENERAL DE OBRA

	DD2							
	"	Ø mm	Ø Int. mm	RPM	*H mm	*NºS	e mm	€
DD2-115	4,5	115	22,23	13.200	12	9	1,8	**24,49**
DD2-125	5	125	22,23	12.200	12	9	2,2	**29,92**
DD2-180	7	180	22,23	8.400	12	14	2,2	**54,69**
DD2-230	9	230	22,23	6.500	12	18	2,4	**62,62**

* H: Altezza del dente • * NºS: Numero di denti

DISCO DIAMANTATO AD ALTO RENDIMENTO

Ref. DD3



Speciale per il taglio extrafino di calcestruzzo, mattone, marmo, piastrella e pietra.
Specifico per lavori a secco, tuttavia, il raffreddamento con acqua aumenta esponenzialmente le sue prestazioni.



EN13236







TURBO

	DD3							
	"	Ø mm	Ø Int. mm	RPM	*H mm	e mm	€
DD3-115	4,5	115	22,23	13.200	10	2,0	**12,78**
DD3-125	5	125	22,23	12.200	10	2,2	**15,32**
DD3-180	7	180	22,23	8.400	10	2,8	**32,56**
DD3-230	9	230	22,23	6.500	10	2,8	**48,07**
DD3-250	10	250	22,23	6.100	10	2,8	**79,39**
DD3-300	12	300	25,40	5.100	10	3,2	**129,36**
DD3-350	14	350	25,40	4.400	10	3,2	**149,56**

* H: Altezza del dente

DISCHI DIAMANTATI PER EDILIZIA

DISCO DIAMANTATO AD ALTO RENDIMENTO

Ref. DD4



Speciale per il taglio extrafino di calcestruzzo, mattone, marmo, piastrella e pietra. Specifico per lavori a secco, tuttavia, il raffreddamento con acqua aumenta esponenzialmente le sue prestazioni. Alto rendimento.



EN13236







TOP TURBO

DD4

	"	Ø mm	Ø Int. mm	RPM	*H mm	e mm	€
DD4-115	4,5	115	22,23	13.200	12	1,8	**21,85**
DD4-125	5	125	22,23	12.200	12	2,5	**25,06**
DD4-180	7	180	22,23	8.400	12	2,5	**59,82**
DD4-230	9	230	22,23	6.500	12	2,8	**67,84**

* H: Altezza del dente

DISCO DIAMANTATO TAGLIO E SMUSSATURA A 45º

NEW

Ref. DD29



Lavori di smussatura e levigatura fine su pietra, piastrelle in ceramica di ogni tipo, rivestimenti di vernice o resti di cemento. Lavoro secco. Utilizzare con smerigliatrice.















TWIN TILE

DD29

	"	Ø mm	Ø Int. mm	RPM	*H mm	Grana	e mm	€
DD29-125	5	125	22,23	12.250	20/10 mm	40-45 /50-60	1,6	**51,33**

DISCO DIAMANTATO CONTINUO

Ref. DD6



Speciale per il taglio di grès e porcellanato.
Specifico per lavori a secco, tuttavia, il raffreddamento con acqua aumenta esponenzialmente le sue prestazioni. Alto rendimento.



EN13236







TOP TILE

DD6

	Ø mm	"	Ø Int. mm	RPM	*H mm	e mm	€
DD6-115	115	4,5	22,23	13.200	10	1,5	**43,02**
DD6-125	125	5	22,23	12.200	10	1,5	**46,44**
DD6-180	180	7	22,23	8.400	10	1,8	**89,02**
DD6-230	230	9	22,23	6.500	10	2,0	**125,75**
DD6-250	250	10	22,23	6.100	10	2,8	**132,36**
DD6-300	300	12	25,40	5.100	10	3,2	**165,25**
DD6-350	350	14	25,40	4.400	10	3,2	**175,36**

* H: Altezza del dente

DISCHI DIAMANTATI PER EDILIZIA

DISCO DIAMANTATO CONTINUO TAGLIO PRECISO XTRACLEAN TILE

Ref. **DD8**



Alte prestazioni in gres e porcellana. Taglio fine e preciso.
Specifico per lavori a secco, tuttavia, il raffreddamento con acqua aumenta esponenzialmente le sue prestazioni.

EN13236





XTRACLEAN TILE

	Ø mm	"	Ø Int. mm	RPM	*H mm	e mm	DD8 €
DD8-115	115	4,5	22,23	13.200	10	1,4	**49,48**
DD8-125	125	5	22,23	12.200	10	1,4	**53,39**

* H: Altezza del dente

DISCO DIAMANTATO PER TAGLIO E SGROSSATURA SOTTILE

Ref. **DD35**

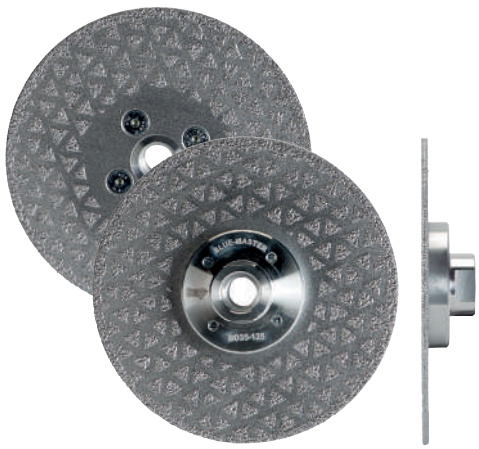
ALTO RENDIMENTO

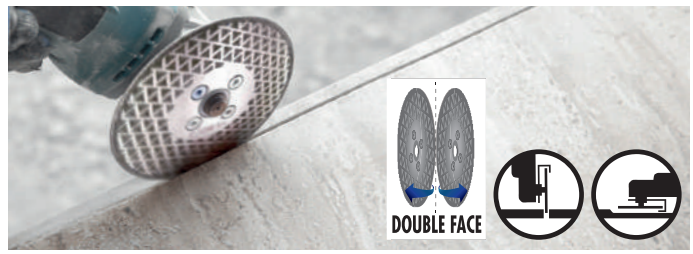


Disco continuo di diamante elettrodepositato. Speciale per lavorare con tutti i tipi di piastrelle in ceramica, pietra naturale, cemento, cemento adesivo e materiali sintetici... Taglio e levigatura fini. 3 zone di lavoro, tagliente e sgrossatura reversibile su entrambi i lati. Ottieni il massimo delle prestazioni lavorando in qualsiasi posizione, taglio perpendicolare, generazione del bisello laterale. Utilizzare in Smerigliatrice. Include adattatore M14x2.









	"	Ø mm	Ø Int. mm	RPM	e mm	DD35 €
DD35-115	4,5	115	22,2/M14x2	13.200	1,5	**74,16**
DD35-125	5	125	22,2/M14x2	12.200	1,5	**85,49**

DISCHI DIAMANTATI PER EDILIZIA

DISCO DIAMANTATO CONTINUO TAGLIO UMIDO DIAMOND H2O

Ref. DD5

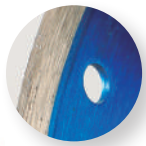


Speciale per il taglio di piastrella, marmo, e pietra.
Lavoro refrigerato con acqua.

EN13236







DIAMOND H_2O

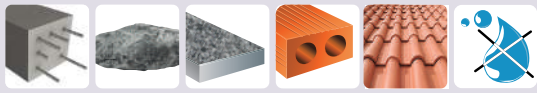
DD5

	"	Ø mm	Ø Int. mm	RPM	*H mm	e mm	€
DD5-115	4,5	115	22,23	13.200	10	2,0	**7,91**
DD5-125	5	125	22,23	12.200	10	2,2	**9,26**
DD5-180	7	180	22,23	8.400	10	2,4	**23,07**
DD5-230	9	230	22,23	6.500	10	2,8	**32,56**

* H: Altezza del dente

DISCO DIAMANTATO SPECIALE PER PIETRA

Ref. DD9



Speciale per il taglio di calcestruzzo armato e lavato, pietra naturale, granito, mattone Klinker e piastrelle. Specifico per lavori a secco, in ogni caso, il raffreddamento con acqua aumenta esponenzialmente le sue prestazioni.

EN13236







CANTERO

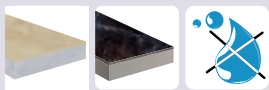
DD9

	"	Ø mm	Ø Int. mm	RPM	*H mm	*NºS	e mm	€
DD9-115	4,5	115	22,23	13.200	10	9	2,0	**38,18**
DD9-125	5	125	22,23	12.200	10	9	2,0	**46,44**
DD9-230	9	230	22,23	6.500	10	18	2,8	**112,49**

* H: Altezza del dente • * NºS: Numero di denti

DISCO DIAMANTATO MARMISTI

Ref. DD12



Speciale per il taglio fine senza rotture di marmo bianco o nero.
Specifico per lavori a secco, tuttavia, il raffreddamento con acqua aumenta esponenzialmente le sue prestazioni.

EN13236







MARMOLISTA

DD12

	"	Ø mm	Ø Int. mm	RPM	*H mm	*NºS	e mm	€
DD12-115	4,5	115	22,23	13.200	10	9	2,0	**18,13**
DD12-125	5	125	22,23	12.200	10	9	2,0	**20,35**
DD12-300	12	300	25,4/20	5.100	10	22	3,0	**180,91**
DD12-350	14	350	25,4/20	4.400	10	24	3,2	**206,72**

Include anello riduttore 25,4/20

* H: Altezza del dente • * NºS: Numero di denti

DISCHI DIAMANTATI PER EDILIZIA

DISCO DIAMANTATO SEGMENTATO PER MATERIALI ABRASIVI

Ref. DD13



Speciale per tagli precisi in materiali morbidi ma abrasivi come mattone, piastrelle, mattone a vista, refrattario, pietra arenaria o pietra arenaria calcarea. Specifico per lavori a secco, tuttavia, il raffreddamento con acqua aumenta esponenzialmente le sue prestazioni.

EN13236







ABRASIVES

DD13

	"	Ø mm	Ø Int. mm	RPM	*H mm	*NºS	e mm	€
DD13-350	14	350	25,4/20	4.400	12x22	21	3,2	**224,31**
DD13-400	16	400	25,4/20	4.100	12x22	24	3,4	**273,54**

Include anello riduttore 25,4/20

* H: Altezza del dente • * NºS: Numero di denti

DISCO DIAMANTATO SEGMENTATO ESPECIALE ASFALTO

Ref. DD14



Speciale per il taglio di asfalto e asfalto su calcestruzzo e pavimentazione.
Specifico per lavori a secco, tuttavia, il raffreddamento con acqua aumenta esponenzialmente le sue prestazioni.

EN13236







ASPHALT

DD14

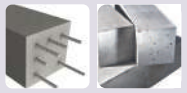
	"	Ø mm	Ø Int. mm	RPM	*H mm	*NºS	e mm	€
DD14-300	12	300	25,4/20	5.100	12x22	18	3,0	**224,78**
DD14-350	14	350	25,4/20	4.400	12x22	21	3,2	**276,16**
DD14-400	16	400	25,4/20	4.100	12x22	24	3,4	**340,38**

Include anello riduttore 25,4/20

* H: Altezza del dente • * NºS: Numero di denti

DISCO DIAMANTATO SEGMENTATO ESPECIALE CALCESTRUZZO

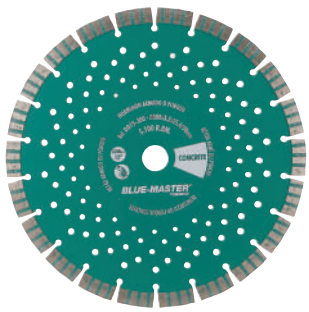
Ref. DD15



Speciale per il taglio di tutti i tipi di calcestruzzo: poroso, indurito, armato, precompresso,...
Eccellente velocità di taglio grazie ai segmenti scanalati con grande potere di evacuazione della polvere e minor attrito laterale.
Specifico per lavori a secco, tuttavia, il raffreddamento con acqua aumenta esponenzialmente le sue prestazioni.

EN13236







CONCRETE

DD15

	"	Ø mm	Ø Int. mm	RPM	*H mm	*NºS	e mm	€
DD15-115	4,5	115	22,23	13.200	15	9	2,5	**26,64**
DD15-125	5	125	22,23	12.200	15	9	2,5	**30,45**
DD15-230	9	230	22,23	6.600	15	18	2,8	**43,30**
DD15-300	12	300	25,4/20	5.100	15	22	3,2	**148,43**
DD15-350	14	350	25,4/20	4.400	15	24	3,4	**186,48**

Include anello riduttore 25,4/20

* H: Altezza del dente • * NºS: Numero di denti

DISCHI DIAMANTATI PER EDILIZIA

DISCO DIAMANTATO SEGMENTATO PER SCANALARE PARETI

Ref. **DR**

Ideale per lavori su Mattone a vista, Refrattario. Blocco e Tavelloni in calcestruzzo. Disco diamantato segmentato, speciale taglio grossolano, spessore 6,4 mm. Disco speciale per eseguire scanalature di passaggio di tubo per cavo. Specifico per Elettricisti, taglio intensivo in muri. Specifico per lavori a secco, tuttavia, il raffreddamento con acqua aumenta esponenzialmente le sue prestazioni.







TOP WALL

DR

	"	Ø mm	Ø Int. mm	RPM	*H mm	*NºS	e mm	€
DR-115	4,5	115	22,2	13.300	10	8	6,4	**76,65**
DR-125	5	125	22,2	12.200	10	9	6,4	**84,16**
DR-150	6	150	22,2	10.000	10	12	6,4	**100,15**

* H: Altezza del dente • * NºS: Numero di denti

DISCO DIAMANTATO PER SGROSSATURA FINA

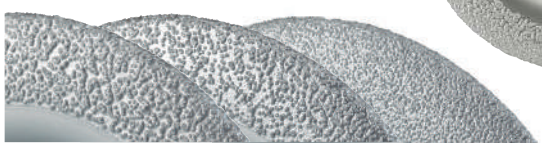
NEW

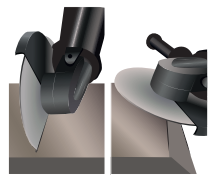
Ref. **DD39**

Lavori di smussatura e levigatura fine su pietra, piastrelle in ceramica di ogni tipo, rivestimenti di vernice o resti di cemento. Lavoro secco. Utilizzare con smerigliatrice.











DD39

	"	Ø mm	Ø Int. mm	Grana	e mm	€
DD39-125X1,4-F	5	125	22,23	50-60	1,4	**48,21**
DD39-125X1,4-M	5	125	22,23	40-50	1,4	**48,21**
DD39-125X1,4-G	5	125	22,23	35-40	1,4	**48,21**

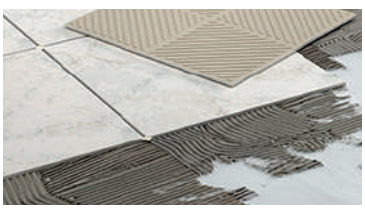
DISCO ABRASIVO DI GRANA IN METALLO DURO

Ref. **DD22**

MD

Sgrossatura e modellatura del legno.
Pulizia di superfici in calcestruzzo, cemento-colla e fibra di vetro.
Pulizia delle superfici in genere.









Grana abrasiva in metallo duro.
Qualità Extra Forte.

EXTRA HARD QUALITY GUARANTEED SATISFACTION



MULTIFUNCTION

DD22

	"	Ø mm	Ø Int. mm	RPM	€
DD22-115	4,5	115	22,23	13.300	**15,96**

DISCHI DIAMANTATI PER EDILIZIA

EN13236

PIATTO DIAMANTATO

Ref. DD10
Ref. DD11

Speciale per il desbaste di pietra naturale, calcestruzzo universale, granito e pavimentazione. Specifico per lavori a secco, tuttavia, il raffreddamento con acqua aumenta esponenzialmente le sue prestazioni.







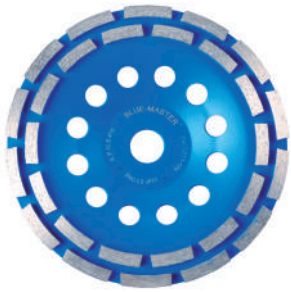
UNIVERSAL STONE

DD10

	"	Ø mm	Ø Int. mm	RPM	*NºS	€
DD10-115	4,5	115	22,23	13.200	16	**49,55**
DD10-125	5	125	22,23	12.250	20	**54,26**
DD10-180	7	180	22,23	8.400	28	**100,27**

* NºS: Numero di denti







TOP STONE ALTO RENDIMENTO

DD11

	"	Ø mm	Ø Int. mm	RPM	*NºS	€
DD11-115	4,5	115	22,23	13.200	16	**69,60**
DD11-125	5	125	22,23	12.250	20	**75,49**
DD11-180	7	180	22,23	8.400	28	**130,94**

* NºS: Numero di denti

Ref. DD20

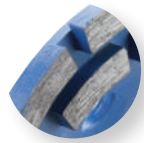
M14x2

Ha una filettatura M14x2 per l'unione con una smerigliatrice.
Speciale per il acabado en di pietra naturale, calcestruzzo universale, granito e pavimentazione. Specifico per lavori a secco, tuttavia, il raffreddamento con acqua aumenta esponenzialmente le sue prestazioni. Alto rendimento.









TOP STONE THREAD

DD20

	"	Ø mm	Ø Int. mm	RPM	*NºS	€
DD20-115	4,5	115	M14x2	5.100	18	**69,60**
DD20-125	5	125	M14x2	4.400	20	**75,49**

* NºS: Numero di denti

NEW

Ref. DD40

Piato diamantato segmentato con geometria Boomerang. Elevata potenza per sgrossatura e finitura di tutti i tipi di materiali da costruzione. Specifico per il lavoro a secco, invece, il raffreddamento ad acqua ne aumenta esponenzialmente le prestazioni.









BOOMERANG

DD40

	"	Ø mm	Ø Int. mm	RPM	e mm	*NºS	€
DD40-115	4,5	115	22,23	13.200	4	6	**69,60**
DD40-125	5	125	22,23	12.200	4	7	**75,49**
DD40-180	7	180	22,23	8.400	4	11	**130,94**
DD40-230	9	230	22,23	6.600	5	14	**148,05**

* NºS: Numero di denti

IDENTIFICAZIONE DEI TIPI DI DISCHI ABRASIVI



AX 60 S BF T41

TIPO DI ABRASIVO

- **A:** Ossido di Alluminio
- **AX:** Ossido di Alluminio ad alta resistenza
- **AC:** Ossido di Alluminio + Carburo di Silicio
- **C:** Carburo di Silicio
- **Z:** Zirconio

FORMA DEL DISCO

- **T41** Piatto per il taglio
- **T42** Centro ribassato per il taglio
- **T27** Centro ribassato per la lucidatura con lamelle.

GRANA

- **30-36:** Medio
- **40-60:** Fino
- **80-120:** Extra fino

DUREZZA

- **Q:** Morbido
- **R:** Mezzo
- **S:** Duro

TIPO DI DISCO (AGGLOMERANTE)

- **BF:** Legame di resina rinforzato con fibre

90° Dischi da **Taglio**

15° Dischi per **Lucidatura e Sgrossatura**

Fe S Cl Senza **Ferro, Zolfo e Cloruro**

A: Ossido di alluminio:

L'ossido di alluminio è forte e durevole, per il taglio e la sgrossatura di materiali ad alta resistenza come acciaio al carbonio, acciaio inossidabile e tutti i tipi di metalli.

AX: Ossido di alluminio ad alta resistenza:

L'ossido di alluminio ad alta resistenza è un abrasivo di altissima qualità, la sua microstruttura della grana gli consente di rompersi durante il taglio e la sgrossatura generando più nuovi taglienti. Viene normalmente utilizzato in lavori ad alta produzione e durezza. È consigliato per acciaio inossidabile, acciaio al carbonio, acciai forgiati.

AC: Ossido di Alluminio + Carburo di Silicio:

C: Carburo di silicio:

Il carburo di silicio è il minerale più duro e tagliente. È ideale per tagliare, levigare e lucidare tutti i tipi di materiali, metalli non ferrosi: alluminio, ottone, bronzo, magnesio, titanio,... gomma, vetro, plastica, legno fibroso, smalto... Il carburo di silicio supera qualsiasi altro abrasivo per la sua capacità di penetrare e tagliare, più velocemente e con meno sforzo.

Z: Zirconio:

Lo zirconio ha la qualità di autoaffilante che gli conferisce una lunga vita utile nei lavori ad alte prestazioni e durezza nell'asportazione di materiale. È ideale per la sgrossatura e lucidatura ad alte prestazioni su acciaio inossidabile, acciaio al carbonio e tutti i tipi di metalli.

DISCHI ABRASIVI DA TAGLIO

DISCO ABRASIVO DA TAGLIO PER METALLO E ACCIAIO INOX

Ref. AB05

INOX

T41

90°

Fe S Cl

T41: Disco abrasivo piano.
Norma EN12413.
Privo di ferro, zolfo e cloruro.
Specifico per impieghi generali nel taglio dei metalli.

10
Unitá

EN12413







INOX METAL

AB05

	"	Ø mm	Ø Int. mm	RPM	e mm		€ / 10U.
AB05-115X1-10	4,5	115	22,23	13.300	1	10	**11,71**
AB05-125X1-10	5	125	22,23	12.250	1	10	**12,26**

Ref. AB11

INOX

T41

90°

Fe S Cl

T41: Disco abrasivo piano.
Certificato OSA, secondo la norma EN12413.
Privo di ferro, zolfo e cloruro.
Alte prestazioni nel taglio di acciaio inossidabile, acciaio e metallo.

OSA

EN12413





AX: Ossido di alluminio ad alta resistenza.
Dischi da taglio abrasivi ad alte prestazioni.
Lunga vita utile.
Massima ergonomia grazie alla riduzione di vibrazioni.

INOX METAL

AB11

	"	Ø mm	Ø Int. mm	RPM	e mm	Grana		€ / 1U.
AB11-115X1	4,5	115	22,23	13.300	1,0	60	25	**1,45**
AB11-125X1	5	125	22,23	12.250	1,0	60	25	**1,61**
AB11-230X1,9	9	230	22,23	6.650	1,9	46	25	**3,73**

Ref. AB11

INOX

T42

90°

Fe S Cl

T42: Disco abrasivo da taglio con centro ribassato.
Certificato OSA, in accordo alla Norma EN12413.
Privo di ferro, zolfo e cloruro.
Alte prestazioni nel taglio di acciaio inossidabile, acciaio e metallo.

OSA

EN12413





AX: Ossido di alluminio ad alta resistenza.
Dischi abrasivi da taglio ad alte prestazioni.
Lunga vita utile.
Massima ergonomia grazie alla riduzione di vibrazioni.

INOX METAL

AB11

	"	Ø mm	Ø Int. mm	RPM	e mm	Grana		€ / 1U.
AB11-115X2,5	4,5	115	22,23	13.300	2,5	36	25	**1,60**
AB11-230X2,5	9	230	22,23	6.650	2,5	30	25	**4,22**

DISCHI ABRASIVI DA TAGLIO

DISCO ABRASIVO PER IL TAGLIO DEI MATERIALI EDILI

Ref. AB17



T42: Disco abrasivo da taglio con centro ribassato.
Certificato OSA, in accordo alla Norma EN12413.
Privo di ferro, zolfo e cloruro.
Elevate prestazioni nel taglio dei materiali edili.





C: Carburo di silicio. Dischi abrasivi da taglio ad alte prestazioni.
Lunga vita utile. Massima ergonomia grazie alla riduzione di vibrazioni.

STONE

	"	Ø mm	Ø Int. mm	RPM	e mm	Grana		AB17 € / 1U.
AB17-115X2,5	4,5	115	22,23	13.300	2,5	36	25	**1,67**
AB17-125X2,5	5	125	22,23	12.250	2,5	36	25	**1,78**
AB17-230X2,5	9	230	22,23	6.650	2,5	30	25	**4,80**

DISCO ABRASIVO PER IL TAGLIO DI TUTTI I TIPI DI MATERIALI

Ref. AB18



T41: Disco abrasivo piano.
Certificato OSA, in accordo alla Norma EN12413.
Privo di ferro, zolfo e cloruro.
Alte prestazioni nel taglio di tutti i tipi di materiali.





AC: Ossido di Alluminio + Carburo di Silicio.
Dischi abrasivi da taglio ad alte prestazioni.
Lunga vita utile. Massima ergonomia grazie alla riduzione di vibrazioni.

MULTIFUNCTION

	"	Ø mm	Ø Int. mm	RPM	e mm	Grana		AB18 € / 1U.
AB18-115X1,6	4,5	115	22,23	13.300	1,6	46	25	**1,60**
AB18-125X1,6	5	125	22,23	12.250	1,6	46	25	**1,77**
AB18-230X2	9	230	22,23	6.650	2,0	36	25	**5,01**

DISCHI ABRASIVI LAMELLARI

DISCHI ABRASIVI LAMELLARI PER LA LUCIDATURA DI METALLO E INOX

Ref. AB15



T27: Disco abrasivo lamellare con centro ribassato per la lucidatura.
Norma EN13743. Privo di ferro, zolfo e cloruro.
Alte prestazioni nella lucidatura di acciaio inossidabile e metallo.

Z: Zirconio. Lunga vita utile. Tasso ottimale di evacuzione del materiale.
Tessuti di fibra di vetro rinforzati per una produttività e sicurezza massima.

XTRA LONG life

EN13743



INOX METAL

	AB15						
	"	Ø mm	Ø Int. mm	RPM	Grana		€ / 1U.
AB15-115XC40	4,5	115	22,23	13.300	40	10	**3,65**
AB15-115XC60	4,5	115	22,23	13.300	60	10	**3,65**
AB15-115XC80	4,5	115	22,23	13.300	80	10	**3,65**
AB15-115XC120	4,5	115	22,23	13.300	120	10	**3,65**
AB15-125XC40	5	125	22,23	12.250	40	10	**3,86**
AB15-125XC60	5	125	22,23	12.250	60	10	**3,86**
AB15-125XC80	5	125	22,23	12.250	80	10	**3,86**
AB15-125XC120	5	125	22,23	12.250	120	10	**3,86**

Ref. AB20



T27: Disco abrasivo lamellare con centro ribassato per la lucidatura.
Norma EN13743. Privo di ferro, zolfo e cloruro.
Alte prestazioni nella sgrossatura e lucidatura di acciaio inossidabile e metallo.

A: Ossido di alluminio. Leggero, flessibile e silenzioso grazie al suo corpo in fibra multistrato.

PROFESSIONAL

EN13743



INOX METAL

	AB20						
	"	Ø mm	Ø Int. mm	RPM	Grana		€ / 1U.
AB20-115XC40	4,5	115	22,23	13.300	40	10	**2,07**
AB20-115XC60	4,5	115	22,23	13.300	60	10	**2,07**
AB20-115XC80	4,5	115	22,23	13.300	80	10	**2,07**
AB20-115XC120	4,5	115	22,23	13.300	120	10	**2,07**
AB20-125XC40	5	125	22,23	12.250	40	10	**2,33**
AB20-125XC60	5	125	22,23	12.250	60	10	**2,33**
AB20-125XC80	5	125	22,23	12.250	80	10	**2,33**
AB20-125XC120	5	125	22,23	12.250	120	10	**2,33**

DISCO ABRASIVO IN POLICARBONATO

Ref. DD21

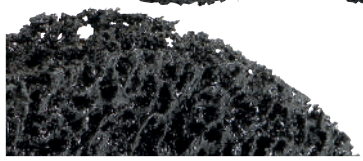


Eliminazione di ruggine e tracce di corrosione, incrostazioni, sporco, vernici fortemente aderenti, vecchie colle e resti di giunti. Pulizia dei cordoni di saldatura, rimozione di leggere striature interne, ossidazioni e decolorazioni, soprattutto in acciaio INOX.









Disco abrasivo per la pulizia risultante da una speciale combinazione di fibre sintetiche e grana abrasiva.
La struttura flessibile si adatta straordinariamente ai contorni della superficie e alla forma del pezzo.
La struttura aperta previene l'intasamento e genera una macinatura fine.
Pulizia ad alta efficienza di tutti i residui corrosivi sulla superficie del pezzo.



INOX METAL

	DD21				
	"	Ø mm	Ø Int. mm	RPM	€
DD21-115	4,5	115	22,23	3.400	**19,68**
DD21-125	5	125	22,23	3.400	**22,95**

DISCO LUCIDANTE ANTIRUGGINE PER LEVIGATRICE

Ref. DD24 **FELTRO**



Disco con base rigida in feltro per lucidatura e finitura di superfici.
Ideale per lucidare e ravvivare tutti i tipi di metalli.









DD24

	"	Ø mm	Ø Int. mm		€
DD24-100	4	100	22,23	1	**7,37**

CORPO LEVIGATRICE

Ref. DD25 **VELCRO**



Corpo con velcro per levigare e lucidare le superfici.
Adatto per lavorare con tutti i tipi di accessori carta vetrata, feltro e lana BLUEMASTER.
Per gli accessori con velcro: **DD26 • DD28 • DD31 • DD32 • DD33.**
Utilizzare in smerigliatrice.









DD25

	"	Ø mm	Ø Int. mm	RPM		€
DD25-100	4	100	M14x2	12.500	1	**13,77**
DD25-115	4,5	115	M14x2	12.500	1	**16,40**
DD25-125	5	125	M14x2	12.500	1	**17,05**

DISCO DIAMANTATO PER LUCIDATURA DI PIETRA PER LEVIGATRICE

Ref. DD26 **VELCRO**

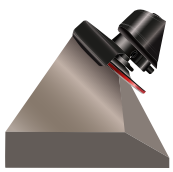




Realizzato con polvere di diamante e resina, per una lucidatura ottimale delle superfici.
Disco diamantato per lucidatura di granito, marmo, pietra, calcestruzzo.
Lavori a secco. Per corpo levigatrice Ref: **DD25**.

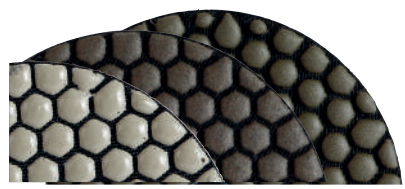








Con diverse qualità di finitura a seconda della grana da scegliere.





DD26

	"	Ø mm	Grana		€
DD26-100-50	4	100	50	1	**15,60**
DD26-100-100	4	100	100	1	**15,60**
DD26-100-150	4	100	150	1	**15,60**
DD26-100-300	4	100	300	1	**15,60**
DD26-100-500	4	100	500	1	**15,60**
DD26-100-800	4	100	800	1	**15,60**
DD26-100-1000	4	100	1000	1	**15,60**
DD26-100-1500	4	100	1500	1	**15,60**
DD26-100-2000	4	100	2000	1	**15,60**
DD26-100-3000	4	100	3000	1	**15,60**

DISCO LEVIGATRICE IN OSSIDO DI ALLUMINIO PER LEVIGATRICE

Ref. DD28

VELCRO

Lavori a secco.
Per corpo levigatrice Ref: **DD25**.
Con diverse qualità di finitura a seconda della grana da scegliere.









DD28

	"	Ø mm	Grana		€/1U.
DD28-100-60	4	100	60	10	**0,22**
DD28-100-80	4	100	80	10	**0,22**
DD28-100-120	4	100	120	10	**0,22**
DD28-100-240	4	100	240	10	**0,22**
DD28-115-60	4,5	115	60	10	**0,29**
DD28-115-80	4,5	115	80	10	**0,29**
DD28-115-120	4,5	115	120	10	**0,29**
DD28-115-240	4,5	115	240	10	**0,29**
DD28-125-60	5	125	60	10	**0,34**
DD28-125-80	5	125	80	10	**0,34**
DD28-125-120	5	125	120	10	**0,34**
DD28-125-240	5	125	240	10	**0,34**

DISCO IN FELTRO PER LEVIGATRICE

Ref. DD33

VELCRO

Lucidatura, finitura e brillantatura su ogni tipo di superficie, vernice, fibra di vetro, plastica, acciaio inox, metalli, ecc...
Utilizzare con corpo levigatrice a velcro Rif. **DD25**.









DD33

	"	Ø mm	e mm		€
DD33-100	4	100	6	1	**9,78**
DD33-115	4,5	115	6	1	**10,15**
DD33-125	5	125	6	1	**10,70**

SPUGNA LUCIDATRICE PER LEVIGATRICE

Ref. DD31

VELCRO

Finitura fine su superfici in metallo e fibra di vetro.
Specifico per applicazioni automotive e nautiche.
Utilizzare con corpo levigatrice a velcro Rif. **DD25**.









DD31

	"	Ø mm	e mm		€
DD31-100	4	100	25	1	**8,30**
DD31-115	4,5	115	25	1	**8,86**
DD31-125	5	125	25	1	**9,59**

DISCO IN LANA LUCIDATURA FINALE PER LEVIGATRICE

Ref. DD32

VELCRO

Disco in lana lucidante per corpo con velcro.
Lucidatura, finitura e brillantatura finale su tutti i tipi di superficie.
Utilizzare con corpo levigatrice a velcro Rif. **DD25**.









DD32

	"	Ø mm	e mm	€
DD32-100	4	100	1	**7,01**
DD32-115	4,5	115	1	**7,94**
DD32-125	5	125	1	**8,86**

SUPPORTO MULTILEVIGATURA CON CAMBIO RAPIDO CDR

NEW

Ref. **RLOC**

CDR



- Cambio disco rapido, semplice e preciso. Nessuno strumento aggiuntivo.
- Perfetta centratura del disco sul supporto
- Eccellente per alte prestazioni e grandi volumi di macinazione.
- Perfetto per levigare, lucidare, sbavare, pulire, lucidare, tutti i tipi di materiali.
- Indicato per l'uso in macchine pneumatiche o elettriche.

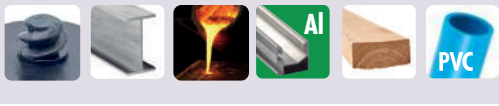




RLOC	Ø mm		€
RLOC25	25	1	**12,74**
RLOC50	50	1	**12,74**
RLOC75	75	1	**15,59**

*Compatibile con i sistemi RolocTM, Lockit, Speed Lock Tr, Power Lock Typ III, FastLock B, Roll-On.

MULTILEVIGATURA ALOX



Indicato per la levigatura e lucidatura in applicazioni generali, Acciaio, Ghisa, Alluminio, Titanio e sue leghe, Legno e Plastica.



RLOC1	Ø mm	Grana		€ /1U.
RLOC1-25P60	25	60	50	**0,71**
RLOC1-25P120	25	120	50	**0,71**
RLOC1-50P40	50	40	50	**1,07**
RLOC1-50P60	50	60	50	**1,07**
RLOC1-50P80	50	80	50	**1,07**
RLOC1-50P120	50	120	50	**1,07**
RLOC1-75P40	75	40	50	**1,24**
RLOC1-75P60	75	60	50	**1,24**
RLOC1-75P120	75	120	50	**1,24**

MULTILEVIGATURA ALOX PLUS

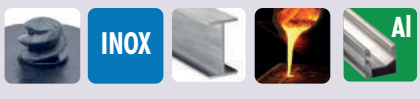


Indicato per levigatura e lucidatura ad alte prestazioni in applicazioni generali, INOX, Acciaio e Fusione.



RLOC2	Ø mm	Grana		€ /1U.
RLOC2-25P60	25	60	50	**0,89**
RLOC2-25P120	25	120	50	**0,89**
RLOC2-50P36	50	36	50	**1,33**
RLOC2-50P60	50	60	50	**1,33**
RLOC2-50P80	50	80	50	**1,33**
RLOC2-50P120	50	120	50	**1,33**
RLOC2-75P36	75	36	50	**1,56**
RLOC2-75P60	75	60	50	**1,56**
RLOC2-75P80	75	80	50	**1,56**
RLOC2-75P120	75	120	50	**1,56**

MULTILEVIGATURA ZIRCONIO



Indicato per levigare e lucidare ACCIAIO INOX, Acciaio, Ghisa e Alluminio. Saldatura e Metalli Temprati.



RLOC3	Ø mm	Grana		€ /1U.
RLOC3-25P60	25	60	50	**0,78**
RLOC3-25P120	25	120	50	**0,78**
RLOC3-50P40	50	40	50	**1,13**
RLOC3-50P60	50	60	50	**1,13**
RLOC3-75P40	75	40	50	**1,42**
RLOC3-75P60	75	60	50	**1,42**
RLOC3-75P120	75	120	50	**1,42**

MULTILEVIGATURA CERAMICA



RLOC4, Uso generale
RLOC5, Alte prestazioni
Levigatura e lucidatura di Acciaio, leghe di Nichel e Titanio, Ottone e Bronzo.



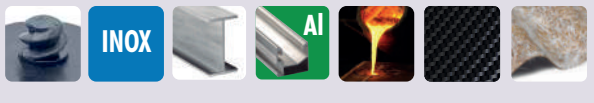
RLOC4

	Ø mm	Grana		€ /1U.
RLOC4-50P40	50	40	50	**1,36**
RLOC4-50P60	50	60	50	**1,36**
RLOC4-50P80	50	80	50	**1,36**
RLOC4-75P40	75	40	50	**1,78**
RLOC4-75P60	75	60	50	**1,78**

RLOC5

	Ø mm	Grana		€ /1U.
RLOC5-75P40	75	40	50	**2,11**
RLOC5-75P60	75	60	50	**2,11**

MULTILEVIGATURA CONDIZIONAMENTO



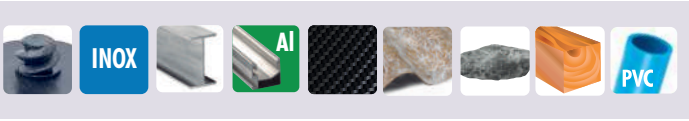
Condizionamento della superficie, prima della verniciatura o del rivestimento. Lucidatura e brillantatura su tutti i tipi di materiali, ACCIAIO INOSSIDABILE, Acciaio, Alluminio, Ghisa, Fibra di Carbonio e materiali compositi (Fibra di vetro, Kevlar...)



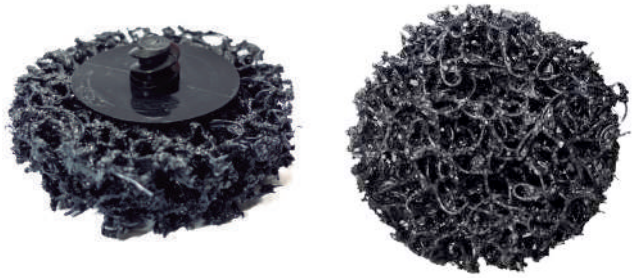
RLOC6

	Ø mm	Grana		€ /1U.
RLOC6-50P1	50	Grossa	25	**1,22**
RLOC6-50P2	50	Media	25	**1,22**
RLOC6-75P1	75	Grossa	25	**1,78**
RLOC6-75P2	75	Media	25	**1,78**

MULTILEVIGATURA C-STRIP



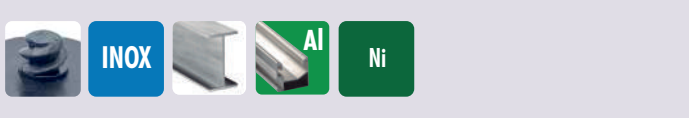
Realizzato in carburo di silicio, pulisce le superfici in tutti i tipi di materiali. Pulizia di vernici, corrosione, adesivi, proiezioni di saldature, bave, ecc.



RLOC7

	Ø mm		€ /1U.
RLOC7-50	50	10	**3,47**
RLOC7-75	75	10	**4,42**

MULTILEVIGATURA UNITIZED



Qualità 2SF.
Lucidatura e lucidatura fine.
Permette una finitura fine su tutti i tipi di materiali senza danneggiare il pezzo.

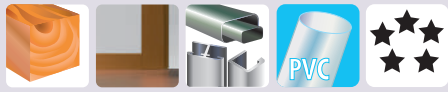


RLOC8

	Ø mm		€ /1U.
RLOC8-50	50	10	**7,22**
RLOC8-75	75	10	**12,92**

NASTRI ABRASIVI

Ref. **AB50**



Elevate prestazioni nella lucidatura e levigatura del materiale su superfici fini.
Nastri abrasivi di alta precisione senza residui di colla per generare superfici di altissima qualità.
Adatto per levigare e lucidare tutti i tipi di legno, legno duro, truciolare, pannello da costruzione, metallo.
Finitura perfetta per la pulizia di superfici con colore, vernici, ruggine e tutti i tipi di impurità.



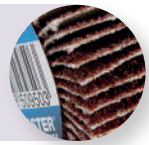


					AB50
	Grana	L2 mm	L1 mm	Unitá	€ / 1U.
AB50100X690Z40	40	100	690	10	**3,12**
AB50100X690Z60	60	100	690	10	**3,01**
AB50100X690Z80	80	100	690	10	**2,95**
AB50100X690Z100	100	100	690	10	**2,95**
AB50100X690Z120	120	100	690	10	**2,95**

LEVIGATRICI A VENTAGLIO

Ref. **FP**

Fogli in corindone, resistenti allo strappo, soprattutto per operazioni di finitura.
Si adattano a tutti i profili del pezzo, ottenendo un'efficace levigatura nei bordi e nelle fessure.
Fornisce una finitura uniforme per tutta la vita dell'abrasivo.
Elevate prestazioni nella lucidatura e pulizia di vernici, ossidi, saldature e stampi.



QUALITÀ

Grana 40 / 60	Finitura Grossa
Grana 80 / 120	Finitura Media







						FP
	Grana	D1 mm	D2 mm	* H mm	R.P.M.	€
FP30X10-60	60	30	6	10	14.000	**2,74**
FP30X15-60	60	30	6	15	14.000	**2,74**
FP30X15-80	80	30	6	15	14.000	**2,74**
FP30X20-40	40	30	6	20	14.000	**2,91**
FP30X20-60	60	30	6	20	14.000	**3,04**
FP30X20-80	80	30	6	20	14.000	**3,04**
FP30X20-120	120	30	6	20	14.000	**3,04**
FP40X15-60	60	40	6	15	13.000	**2,97**
FP40X15-80	80	40	6	15	13.000	**2,97**
FP40X15-120	120	40	6	15	13.000	**2,97**
FP40X20-40	40	40	6	20	13.000	**3,15**
FP40X20-60	60	40	6	20	13.000	**3,15**
FP40X30-40	40	40	6	30	13.000	**3,15**
FP40X30-60	60	40	6	30	13.000	**3,15**
FP50X20-60	60	50	6	20	11.800	**3,58**
FP50X20-80	80	50	6	20	11.800	**3,58**
FP50X20-220	220	50	6	20	11.800	**3,58**
FP50X30-40	40	50	6	30	11.800	**4,25**
FP50X30-60	60	50	6	30	11.800	**4,25**
FP50X30-80	80	50	6	30	11.800	**4,25**
FP50X30-120	120	50	6	30	11.800	**4,45**
FP60X20-40	40	60	6	20	10.000	**4,39**
FP60X20-60	60	60	6	20	10.000	**4,39**
FP60X30-40	40	60	6	30	10.000	**5,09**
FP60X30-60	60	60	6	30	10.000	**5,09**
FP60X30-80	80	60	6	30	10.000	**5,09**
FP60X30-120	120	60	6	30	10.000	**5,34**
FP60X40-60	60	60	6	40	10.000	**5,72**
FP60X40-80	80	60	6	40	10.000	**5,72**
FP80X30-60	60	80	6	30	8.800	**6,74**
FP80X30-80	80	80	6	30	8.800	**6,74**
FP80X50-40	40	80	6	50	8.800	**12,14**
FP80X50-60	60	80	6	50	8.800	**12,14**
FP80X50-80	80	80	6	50	8.800	**12,14**
FP80X50-120	120	80	6	50	8.800	**13,06**

* H: Altezza del dente

BLUE-MASTER® by celesa



FRESE E SEGHE A TAZZA

GUIDA PER LA SCELTA DI FRESE E SEGHE A TAZZA

FRESE E SEGHE A TAZZA PER METALLO

REFERENZA		Tipo e profondità di taglio	Applicazioni, caratteristiche e gamma	Pag.
CB		BI-METAL HSS 35 mm	HSS M3 · 4/6 · Al · Cu-Ni-La · GHISA · PVC Gamma di Ø14/250mm	552
COB		BI-METAL HSSCo 8% 45 mm	HSSCo 8% · 4/6 · INOX · GHISA · Cu-Ni-La Gamma di Ø14/152mm	553
CBX100		BI-METAL HSS 100 mm	HSS M3 · 4/6 · Al · Cu-Ni-La · GHISA · PVC Gamma di Ø25/152mm	556
COBX100		BI-METAL HSSCo 8% 100 mm	HSSCo 8% · 4/6 · Cu-Ni-La · GHISA Gamma di Ø25/51mm	556
CBR		HSS 5 mm	HSS · Al · Cu-Ni-La · GHISA Gamma di Ø8/100mm	560
CBR..T		HSS-TiN 5 mm	HSS · TiN · Al · Cu-Ni-La · GHISA Gamma di Ø8/100mm	561
CBC		HSSCo Inox 10 mm	HSSCo · INOX · Al · Cu-Ni-La · GHISA Gamma di Ø12/100mm	562
CBCTL		HSSCo Inox TiAlN 10 mm	HSSCo · INOX · TiAlN · Al · Cu-Ni-La · GHISA Gamma di Ø12/100mm	563
CCF		HSS 2 mm	HSS · Al · Cu-Ni-La · GHISA Gamma di Ø10/50mm	564
CBMD		35 mm	MD · INOX · Cu-Ni-La Gamma di Ø19/152mm	565
CP		12 mm	MD · Al · Cu-Ni-La · GHISA Gamma di Ø15/35mm	566

FRESE E SEGHE A TAZZA PER METALLO

REFERENZA		Tipo e profondità di taglio	Applicazioni, caratteristiche e gamma	Pag.
CX CXL		MD 12 mm 25 mm	MD · INOX · Al · Cu-Ni-La · GHISA Gamma di Ø18/65mm	567
X		MD 5 mm	MD · INOX · Al · Cu-Ni-La · GHISA Gamma di Ø14/120mm	568
XT		MD 5 mm	MD · INOX · Al · Cu-Ni-La · GHISA Gamma di Ø16/150mm	568
CXX		MD 50 mm	MD · Al · Cu-Ni-La · GHISA Gamma di Ø14/100mm	570
C50X		MD 5 mm	MD · Al · Cu-Ni-La · GHISA Gamma di Ø14/100mm	571
MBM		MD 50 mm	MD · 50 HRc · INOX · Al · GHISA Gamma di Ø35/150mm	572

FRESE A CAROTARE PER MACCHINE A SUPPORTO ELETTROMAGNETICO

REFERENZA		Tipo e profondità di taglio	Applicazioni, caratteristiche e gamma	Pag.
250R 500R		HSS 30 mm 50 mm	HSS · 2 x 90° WELDON · 75 Kg/mm² · INOX · Al Gamma di Ø12/50mm	576
250C 500C 750C 1000C		HSS 30 mm 50 mm 75 mm 100 mm	HSSCo 8% · 2 x 90° WELDON · 110 Kg/mm² · INOX · Al Gamma di Ø12/100mm	577 579
1500C 2000C		HSS 150 mm 200 mm	HSS · 2 x 90° WELDON · 75 Kg/mm² · INOX · Al Gamma di Ø22/50mm - Ø26/50mm	580

GUIDA PER LA SCELTA DI FRESE E SEGHE A TAZZA

FRESE A CAROTARE PER MACCHINE A SUPPORTO ELETTROMAGNETICO

REFERENZA		Tipo e profondità di taglio	Applicazioni, caratteristiche e gamma	Pag.
250T 500T		HSSCo 30 mm 50 mm	HSSCo 8% · 2 x 90° WELDON · 110 Kg/mm² · INOX · Al Gamma di Ø12/60mm	578
350A 500A		MD 35 mm 50 mm	MD · INOX · Al · Cu - Ni - La · GHISA Gamma di Ø14/52mm - Ø14/70mm	581
750A 1000A		MD 75mm 100 mm	MD · INOX · Al · Cu - Ni - La · GHISA Gamma di Ø16/70mm	582
MB250AT MB500AT		HSSCo 25/50 mm	HSSCo 8% · 2 x 90° WELDON · TiAlN Gamma di Ø16/32mm	583
MB350ST		MD 35 m	MD · INOX · Al · Cu - Ni - La · GHISA Gamma di Ø16/32mm	583

FRESE A TAZZA PER EDILIZIA

REFERENZA		Tipo e profondità di taglio	Applicazioni, caratteristiche e gamma	Pag.
600W		MD 80 mm	SDS Plus · MD Gamma di Ø25/100mm	592
CW		MD 95 mm	SDS Plus · SDS Max · MD Gamma di Ø25/200mm	593
HA		MD 54 mm	MD · SDS Plus Gamma di Ø25/112mm	594
MD		MD 60 mm	MD · SDS Plus Gamma di 22/120mm	595

FRESE A TAZZA PER EDILIZIA

REFERENZA		Tipo e profondità di taglio	Applicazioni, caratteristiche e gamma	Pag.
MH		MD 100 mm	MD · SDS Max Gamma di Ø25/150mm	596
NEW CLA PM		MD 70 mm	MD · SDS Max Gamma di Ø30/150m	597
CDE CMAD		PORCELLANICO 40 mm	PVC Gamma di Ø12/120mm - Ø20/50mm	598
NEW CDD		DIAMANTE 60 mm	Gamma di Ø8/102mm	599
NEW CAH		DIAMANTE	Gamma di Ø5/35mm	599
CHH		DIAMANTE 300-450 mm		600
CSE		PORCELLANICO 35 mm	PVC · M14x2 Gamma di Ø5/83mm	601
MG		CARBURO 30 mm	Tungsteno · GHISA Gamma di Ø16/114mm	603
CM		LEGNO 60 mm Ø22/125	MD · PVC Gamma di Ø22/125mm	604
TB CL			SEGA REGOLABILE A COMPASSO Ø200/220/285/410 mm CARTON GESSO	605
CDH		150 mm		608

SEGA A TAZZA BIMETALLICA ACCIAIO RAPIDO HSS 4/6 DENTATURA VARIABILE

Ref. CB



35 mm CAPACITÀ DI TAGLIO







Dimensioni blister:165 x 105 mm

SEGA A TAZZA Ref. CB PRESENTATA IN SCATOLA E BLISTER

Ø mm	Ø Pollici	CB Scatola Ref.	CB Scatola €	CB Blister Ref.	CB Blister €
14	9/16	CB14	6,48	CB14B	6,48
16	5/8	CB16	6,48	CB16B	6,48
17	11/16	CB17	6,55	CB17B	6,55
19	3/4	CB19	7,20	CB19B	7,20
20	-	CB20	7,20	CB20B	7,20
21	13/16	CB21	7,20	CB21B	7,20
22	7/8	CB22	7,57	CB22B	7,57
24	15/16	CB24	8,18	CB24B	8,18
25	1"	CB25	8,53	CB25B	8,53
27	1.1/16	CB27	8,91	CB27B	8,91
29	1.1/8	CB29	9,41	CB29B	9,41
30	1.3/16	CB30	9,95	CB30B	9,95
32	1.1/4	CB32	10,21	CB32B	10,21
33	1.5/16	CB33	10,94	CB33B	10,94
35	1.3/8	CB35	11,03	CB35B	11,03
37	1.7/16	CB37	11,67	CB37B	11,67
38	1.1/2	CB38	11,84	CB38B	11,84
40	1.9/16	CB40	12,01	CB40B	12,01
41	1.5/8	CB41	12,01	CB41B	12,01
43	1.11/16	CB43	12,21	CB43B	12,21
44	1.3/4	CB44	12,66	CB44B	12,66
45	-	CB45	13,05	CB45B	13,05
46	1.13/16	CB46	13,32	CB46B	13,32
48	1.7/8	CB48	13,67	CB48B	13,67
50	-	CB50	13,88	CB50B	13,88
51	2"	CB51	13,88	CB51B	13,88
52	2.1/16	CB52	14,28	CB52B	14,28
54	2.1/8	CB54	14,76	CB54B	14,76
55	-	CB55	15,18	CB55B	15,18
57	2.1/4	CB57	15,31	CB57B	15,31
59	2.5/16	CB59	15,72	CB59B	15,72
60	2.3/8	CB60	16,19	CB60B	16,19
64	2.1/2	CB64	16,45	CB64B	16,45
65	2.9/16	CB65	17,10	CB65B	17,10
67	2.5/8	CB67	17,16	CB67B	17,16
68	-	CB68	17,16	CB68B	17,16
70	2.3/4	CB70	17,45	CB70B	17,45
73	2.7/8	CB73	17,49	CB73B	17,49
75	-	CB75	18,52	CB75B	18,52
76	3"	CB76	18,52	CB76B	18,52
79	3.1/8	CB79	18,62	CB79B	18,62
83	3.1/4	CB83	18,62	CB83B	18,62
86	3.3/8	CB86	18,70		
89	3.1/2	CB89	18,76		
92	3.5/8	CB92	20,70		
95	3.3/4	CB95	24,91		
98	3.7/8	CB98	25,79		
100	-	CB100	26,78		
102	4"	CB102	26,78		
104	4.1/8	CB104	29,62		
108	4.1/4	CB108	31,35		
111	4.3/8	CB111	31,94		
114	4.1/2	CB114	32,54		
121	4.3/4	CB121	33,03		
127	5"	CB127	39,36		
140	5.1/2	CB140	41,17		
146	5.3/4	CB146	43,03		
152	6"	CB152	53,19		
160	-	CB160	83,48		
168	-	CB168	91,73		
177	-	CB177	93,42		
210	-	CB210	98,52		
225	-	CB225	130,37		
250	-	CB250	159,08		

Le seghe a tazza da Ø14 a Ø30 non includono fori per l'attacco degli alberi con spine.

Consultare le condizioni di taglio alla pagina 556.

SEGA A TAZZA BIMETALLICA ACCIAIO RAPIDO HSSCo 8% 4/6 DENTATURA VARIABILE

Ref. COB

HSSCo 8% | 4/6 | INOX | GHISA | Cu-Ni-La

- Maggiore duratura dell'affilatura e del taglio.
- Tagli più veloci e precisi.
- Minore vibrazione e usura.
- M42. Maggiore durezza e rendimento.

45 mm CAPACITÀ DI TAGLIO







Dimensioni blister:165 x 105 mm

SEGA A TAZZA Ref. COB PRESENTATA IN SCATOLA E BLISTER

Ø mm	Ø Pollici	COB Scatola Ref.	COB Scatola €	COB Blister Ref.	COB Blister €
14	9/16	COB14	11,25	COB14B	11,25
16	5/8	COB16	11,63	COB16B	11,63
17	11/16	COB17	11,66	COB17B	11,66
19	3/4	COB19	11,66	COB19B	11,66
20	-	COB20	11,66	COB20B	11,66
21	13/16	COB21	11,66	COB21B	11,66
22	7/8	COB22	11,89	COB22B	11,89
24	15/16	COB24	11,91	COB24B	11,91
25	1"	COB25	12,65	COB25B	12,65
27	1.1/16	COB27	13,34	COB27B	13,34
29	1.1/8	COB29	13,43	COB29B	13,43
30	1.3/16	COB30	13,43	COB30B	13,43
32	1.1/4	COB32	13,43	COB32B	13,43
33	1.5/16	COB33	13,43	COB33B	13,43
35	1.3/8	COB35	14,57	COB35B	14,57
37	1.7/16	COB37	14,57	COB37B	14,57
38	1.1/2	COB38	14,64	COB38B	14,64
40	1.9/16	COB40	14,68	COB40B	14,68
41	1.5/8	COB41	14,68	COB41B	14,68
43	1.11/16	COB43	14,68	COB43B	14,68
44	1.3/4	COB44	16,88	COB44B	16,88
45	-	COB45	17,30	COB45B	17,30
46	1.13/16	COB46	17,40	COB46B	17,40
48	1.7/8	COB48	17,43	COB48B	17,43
50	-	COB50	17,48	COB50B	17,48
51	2"	COB51	17,60	COB51B	17,60
52	2.1/16	COB52	19,55	COB52B	19,55
54	2.1/8	COB54	20,08	COB54B	20,08
55	-	COB55	20,15	COB55B	20,15
57	2.1/4	COB57	20,30	COB57B	20,30
59	2.5/16	COB59	20,32	COB59B	20,32
60	2.3/8	COB60	20,32	COB60B	20,32
64	2.1/2	COB64	21,88	COB64B	21,88
65	2.9/16	COB65	22,09	COB65B	22,09
67	2.5/8	COB67	22,09	COB67B	22,09
68	-	COB68	22,09	COB68B	22,09
70	2.3/4	COB70	22,09	COB70B	22,09
73	2.7/8	COB73	22,09	COB73B	22,09
75	-	COB75	22,43	COB75B	22,43
76	3"	COB76	23,64	COB76B	23,64
79	3.1/8	COB79	23,70	COB79B	23,70
83	3.1/4	COB83	23,70	COB83B	23,70
86	3.3/8	COB86	23,70		
89	3.1/2	COB89	23,79		
92	3.5/8	COB92	26,59		
95	3.3/4	COB95	31,69		
98	3.7/8	COB98	32,80		
100	-	COB100	35,34		
102	4"	COB102	36,12		
104	4.1/8	COB104	39,06		
108	4.1/4	COB108	39,18		
111	4.3/8	COB111	39,98		
114	4.1/2	COB114	40,81		
121	4.3/4	COB121	43,34		
127	5"	COB127	45,08		
140	5.1/2	COB140	50,22		
146	5.3/4	COB146	52,63		
152	6"	COB152	63,91		

Le seghe a tazza da Ø14 a Ø30 non includono fori per l'attacco degli alberi con spine.

Consultare le condizioni di taglio alla pagina 556.

R.P.M. RACCOMANDATE	
INTERVALLO Ø mm	R.P.M
14-25	600
27-45	350
46-60	250
64-83	150
86-102	120
104-121	90
127-152	60

ALBERI E ACCESSORI PER SEGHE A TAZZA BIMETALLICHE

ALBERI CON O SENZA MOLLA DI ESPULSIONE IN SCATOLA E IN BLISTER



Ref. **B5514**



Ref. **B5518**



→ Ref. **B5519**
Il più abituale



Ref. **B5520**



Ref. **B5545**



→ Ref. **B5546**
Il più abituale



Ref. **B5547***



Ref. **B5556SDS**



Ref. **B5547M**





Tipo di codolo	Capacità Ø mm	SENZA MOLLA DI ESPULSIONE				CON MOLLA DI ESPULSIONE			
		Scatola		Blister		Scatola		Blister	
		Ref.	€	Ref.	€	Ref.	€	Ref.	€
Ø 6,35 mm	14 - 30	B5514	**9,60**	B5514S	**10,26**	B5514M	**10,62**	5514-BME	**10,65**
⬡ 11,0 mm	14 - 30	B5518	**12,64**	B5518S	**13,49**	B5518M	**13,63**	5518-BME	**13,63**
⬡ 9,5 mm	14 - 30	B5519	**12,94**	B5519S	**14,07**	B5519M	**13,92**	5519-BME	**15,12**
⬡ 11,0 mm	32 - 38	B5520	**15,17**	B5520S	**15,17**	B5520M	**16,16**		
⬡ 11,0 mm	32 - 250	B5545	**20,50**	B5545S	**20,50**	B5545M	**21,49**		
⬡ 9,5 mm	32 - 250	B5546	**20,50**	B5546S	**21,88**	B5546M	**21,49**	5546-BME	**22,93**
⬡ 11,0 mm	32 - 250	B5547*	**21,42**	B5547S	**23,40**	B5547M	**22,43**	5547-BME	**24,53**
⬡ 16,0 mm	32 - 250	B5573	**22,35**			B5573M	**23,34**		
SDS-PLUS	14 - 30	B5529SDS	**17,19**			B5529SDSM	**17,72**		
SDS-PLUS	32 - 250	B5556SDS	**31,82**			B5556SDSM	**32,51**		

* Albero rigido ad alto rendimento

MOLLA DI ESPULSIONE



B8530
0,91 €

PUNTE PILOTA

HSS



Ref. **B8534** (La più abituale)



Ref. **B8535**



Ref. **B8536**



Ref. **B8537**



Ref. **B8538**





Ø mm	Lt mm	CHIAVETTE	UNITÀ IMBALLAGGIO	ALBERI CORRISPONDENTI	Scatola		Blister	
					Ref.	€	Ref.	€
6,35	83	2	10	5514-5518-5519-5520-5545-5546 5573-5529SDS -5556SDS -5547	B8534	**3,06**	B8534S	**4,04**
6,35	107	3	10	5514-5518-5519-5520-5545-5546 5573-5529SDS -5556SDS -5547	B8535	**3,06**	B8535S	**4,04**
6,35	87	1	10	5514-5518-5520-5573-5545	B8536	**3,06**	B8536S	**4,04**
6,35	82	1	10	Seghe a tazza Mastergrit	B8537	**2,72**	B8537S	**5,01**
6,35	97	1	10	Seghe a tazza Mastergrit	B8538	**2,72**	B8538S	**5,01**

ACCESSORI PER SEGHE A TAZZA BIMETALLICHE

PROLUNGA PER ALBERI DI 300 mm



Valido per alberi:
Ref. 5519-5546
Manico esagonale da 9,5 mm

B5500
24,61 €

ADATTATORE PER ALBERI



Questo adattatore filettato permette agli alberi 5514, 5518 e 5519 di utilizzare seghe a tazza superiori a 30 mm in condizioni di taglio favorevoli.

B5511
8,56 €

VITI DI RICAMBIO (FISSAGGIO DELLA PUNTA ALL'GAMBO)



Vite per alberi:
Ref. 5514 - 5518 - 5519 - 5520

BSS1
2,24 €



Vite per alberi:
Ref. 5545 - 5546 - 5573

BSS2
2,24 €

INSIEME DI SEGA A TAZZA E RONDELLA SVASATORE PER PLADUR







Insieme 1 Ø67

Ref. CPL67

Contenuto:
1 Sega a tazza bimetallica CB67 : Ø 67 mm
1 Albero Ref. B5547
1 Rondella svasatore Ref. CPL

83,16 €



Insieme 2 Ø68

Ref. CPL68

Contenuto:
1 Sega a tazza bimetallica CB68 : Ø 68 mm
1 Albero Ref. B5547
1 Rondella svasatore Ref. CPL

83,16 €

COMPONENTI

	DESCRIZIONE	€
CPL	Rondella svasatore per cartongesso	**61,58**
B5547	Albero rigido per seghe a tazza Ø 32-250 mm	**21,42**
CB67	Sega a tazza bimetallica Ø 67 mm	**17,16**
CB68	Sega a tazza bimetallica Ø 68 mm	**17,16**

SEGA A TAZZA BIMETALLICA EXTRA LUNGA ACCIAIO RAPIDO HSS PER SERRATURIERI

Ref. CBX100

HSS M3 | 4/6 | Al | Cu-Ni-La | GHISA | PVC | 100 mm CAPACITÀ DI TAGLIO



	Ø mm	CBX100 €
CB25X100	25	43,47
CB27X100	27	48,51
CB29X100	29	51,19
CB30X100	30	53,90
CB32X100	32	55,22
CB33X100	33	58,83
CB35X100	35	55,46
CB38X100	38	63,41
CB40X100	40	60,29

	Ø mm	CBX100 €
CB41X100	41	64,51
CB43X100	43	64,87
CB44X100	44	65,29
CB45X100	45	67,03
CB46X100	46	68,29
CB48X100	48	68,29
CB50X100	50	69,84
CB51X100	51	69,84
CB52X100	52	74,94
CB54X100	54	77,18
CB55X100	55	79,11
CB57X100	57	80,20
CB59X100	59	82,39
CB60X100	60	84,71
CB64X100	64	86,02
CB65X100	65	90,23
CB67X100	67	93,27
CB68X100	68	93,27
CB70X100	70	96,51

	Ø mm	CBX100 €
CB73X100	73	96,98
CB75X100	75	97,50
CB79X100	79	98,35
CB83X100	83	98,35
CB86X100	86	98,69
CB89X100	89	99,07
CB92X100	92	109,26
CB95X100	95	129,29
CB98X100	98	133,88
CB100X100	100	139,31
CB102X100	102	139,31
CB104X100	104	153,99
CB108X100	108	163,95
CB111X100	111	168,66
CB114X100	114	174,49
CB127X100	127	211,66
CB140X100	140	226,00
CB146X100	146	237,02
CB152X100	152	285,98

Le seghe a tazza da Ø14 a Ø30 non includono fori per l'attacco degli alberi con spine.

SEGA A TAZZA BIMETALLICA ACCIAIO RAPIDO HSSCo 4/6 DENTATURA VARIABILE

Ref. COBX100

HSSCo 8% | 4/6 | GHISA | Cu-Ni-La

- Maggiore duratura dell'affilatura e del taglio.
- Tagli più veloci e precisi.
- Minore vibrazione e usura.
- M42. Maggiore durezza e rendimento.

100 mm CAPACITÀ DI TAGLIO

	Ø mm	COBX100 €
COB25X100	25	72,54
COB35X100	35	83,57
COB40X100	40	84,42
COB45X100	45	97,02
COB50X100	50	97,61
COB51X100	51	99,59



ALBERI PER SEGHE A TAZZA SERIE LUNGA



	DESCRIZIONE	INTERVALLO mm	€
B5516	Albero per seghe a tazza Serie Lunga	14 - 30	24,33
B5548	Albero per seghe a tazza Serie Lunga	32-250	36,94

PUNTA PILOTA



	Ø mm	Lt mm	ALBERI CORRISPONDENTI	€
B8532	6,35	155	B5516 / B5548	14,64

ESPOSITORI DI SEGHE A TAZZA BIMETALLICHE







Ref. CB

HSS M3 | 4/6 | Al | Cu-Ni-La | GHISA | PVC

ALBERI — ESPPOSITORE DI SEGHE A TAZZA BLUE-MASTER

B5519	**CB16**	**CB19**	**CB20**	**CB22**	**CB25**	**CB27**	**CB30**
Ø 14-30	Ø 16	Ø 19	Ø 20	Ø 22	Ø 25	Ø 27	Ø 30
5	3	3	3	3	3	3	3
B5546	**CB32**	**CB35**	**CB40**	**CB48**	**CB50**	**CB60**	**CB68**
Ø32-250	Ø 32	Ø 35	Ø 40	Ø 48	Ø 50	Ø 60	Ø 68
4	3	3	2	2	2	2	2

Ref. CBEXP1

523,76 €

530 mm
885 mm







HSSCo 8% | 4/6 | INOX | Cu-Ni-La | GHISA

ALBERI — ESPPOSITORE DI SEGHE A TAZZA HSS-Co 8% BLUEMASTER

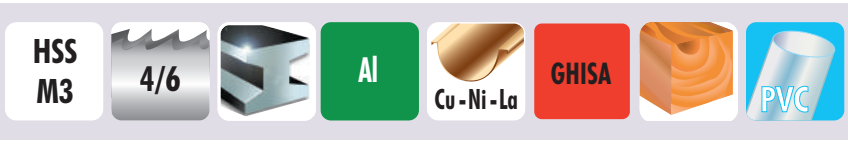
B5519	**COB16**	**COB19**	**COB20**	**COB22**	**COB25**	**COB27**	**COB30**
Ø 14-30	Ø 16	Ø 19	Ø 20	Ø 22	Ø 25	Ø 27	Ø 30
5	3	3	3	3	3	3	3
B5546	**COB32**	**COB35**	**COB40**	**COB48**	**COB51**	**COB60**	**COB68**
Ø32-250	Ø 32	Ø 35	Ø 40	Ø 48	Ø 51	Ø 60	Ø 68
4	3	3	2	2	2	2	2

Ref. COBEXP1

673,72 €

530 mm
885 mm

VALIGETTE DI SEGHE A TAZZA BIMETALLICHE HSS





Ref. CB



Ref. CB9576



VALIGETTA SEGHE A TAZZA PER ELETTRICISTI — 10 Pezzi

CB9570	7 Seghe a tazza CB: **Ø 16-20-25-32-40-50-68 mm**
CB9576	7 Seghe a tazza CB: **Ø 20-25-32-40-44-60-68 mm**

Contenuto
1 Albero Ref. 5519 ⎔ 9,5 Capacità 14-30
1 Albero Ref. 5546 ⎔ 9,5 Capacità 32-250
1 Adattatore per gambo Ref. 5511

CB9576	**96,84 €**
CB9570	**98,19 €**



VALIGETTA SEGHE A TAZZA PER FABBRI — 9 Pezzi

CB9571	6 Seghe a tazza CB: **Ø 22-35-51-60-68-73 mm**
CB9574	6 Seghe a tazza CB: **Ø 22-35-50-60-68-73 mm**

Contenuto
1 Albero Ref. 5519 ⎔ 9,5 Capacità 14-30
1 Albero Ref. 5546 ⎔ 9,5 Capacità 32-250
1 Adattatore per gambo Ref. 5511

102,21 €

VALIGETTA SEGHE A TAZZA PER IDRAULICI — 10 Pezzi

CB9573	7 Seghe a tazza CB: **Ø 20-25-30-40-44-60-68 mm**
CB9575	7 Seghe a tazza CB: **Ø 19-25-32-40-44-60-68 mm**

Contenuto
1 Albero Ref. 5519 ⎔ 9,5 Capacità 14-30
1 Albero Ref. 5546 ⎔ 9,5 Capacità 32-250
1 Adattatore per gambo Ref. 5511

98,19 €



VALIGETTA PER MANUTENZIONE INDUSTRIALE — 13 Pezzi

CB9572	10 Seghe a tazza CB: **20-22-25-32-35-40-44-60-68-76 mm**

Contenuto
1 Albero Ref. 5519 ⎔ 9,5 Capacità 14-30
1 Albero Ref. 5546 ⎔ 9,5 Capacità 32-250
1 Adattatore per gambo Ref. 5511

132,00 €

VALIGETTE DI SEGHE A TAZZA BIMETALLICHE HSSCO 8%



Ref. COB

HSSCo 8% | 4/6 | INOX | GHISA | Cu-Ni-La

- Maggiore duratura dell'affilatura e del taglio.
- Tagli più veloci e precisi.
- Minore vibrazione e usura.
- M42. Maggiore durezza e rendimento.

45 mm CAPACITÀ DI TAGLIO



Ref. COB9576



VALIGETTA SEGHE A TAZZA PER ELETTRICISTI

10 Pezzi



COB9576	7 Seghe a tazza COB:	**Ø 16-20-25-32-40-50-68 mm**
COB9570	7 Seghe a tazza COB:	**Ø 20-25-32-40-44-60-68 mm**

Contenuto
1 Albero Ref. 5519 ⎔ 9,5 Capacità 14-30
1 Albero Ref. 5546 ⎔ 9,5 Capacità 32-250
1 Adattatore per gambo Ref. 5511

COB9576 **105,21 €**
COB9570 **108,00 €**

VALIGETTA SEGHE A TAZZA PER IDRAULICI

10 Pezzi

COB9573	7 Seghe a tazza COB:	**Ø 20-25-30-40-44-60-68 mm**
COB9575	7 Seghe a tazza COB:	**Ø 19-25-32-40-44-60-68 mm**

Contenuto
1 Albero Ref. 5519 ⎔ 9,5 Capacità 14-30
1 Albero Ref. 5546 ⎔ 9,5 Capacità 32-250
1 Adattatore per gambo Ref. 5511

112,43 €

VALIGETTA SEGHE A TAZZA PER FABBRI

9 Pezzi

COB9571	6 Seghe a tazza COB:	**Ø 22-35-51-60-68-73 mm**
COB9574	6 Seghe a tazza COB:	**Ø 22-35-50-60-68-73 mm**

Contenuto
1 Albero Ref. 5519 ⎔ 9,5 Capacità 14-30
1 Albero Ref. 5546 ⎔ 9,5 Capacità 32-250
1 Adattatore per gambo Ref. 5511

108,00 €



VALIGETTA PER MANUTENZIONE INDUSTRIALE

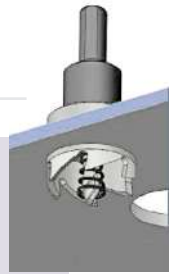
13 Pezzi

COB9572	10 Seghe a tazza COB:	**20-22-25-32-35-40-44-60-68-76 mm**

Contenuto
1 Albero Ref. 5519 ⎔ 9,5 Capacità 14-30
1 Albero Ref. 5546 ⎔ 9,5 Capacità 32-250
1 Adattatore per gambo Ref. 5511

145,19 €

FRESA A TAZZA RIAFFILABILE HSS PER METALLI



HSS Ref. CBR



Al



Cu - Ni - La

GHISA

5 mm CAPACITÀ DI TAGLIO





Serrare le ganasce del mandrino sulle tre sfaccettature dell'gambo per evitare che questo scivoli durante il lavoro.

	CBR Ø mm	CBR €
CBR010	10	15,98
CBR011	11	16,22
CBR012	12	16,22
CBR013	13	17,57
CBR014	14	17,57
CBR015	15	17,90
CBR016	16	17,90
CBR017	17	19,97
CBR018	18	20,64
CBR019	19	21,60
CBR020	20	22,10
CBR021	21	22,75
CBR022	22	24,07
CBR023	23	25,22
CBR024	24	26,20
CBR025	25	26,82
CBR026	26	27,93
CBR027	27	28,92
CBR028	28	30,36
CBR029	29	31,72
CBR030	30	32,44
CBR031	31	35,09
CBR032	32	36,58
CBR033	33	37,82
CBR034	34	38,99
CBR035	35	39,57
CBR036	36	41,12
CBR037	37	42,32
CBR038	38	43,55
CBR039	39	44,44

	CBR Ø mm	CBR €
CBR040	40	45,66
CBR041	41	47,16
CBR042	42	48,07
CBR043	43	49,00
CBR044	44	50,18
CBR045	45	51,40
CBR046	46	52,32
CBR047	47	53,52
CBR048	48	55,04
CBR049	49	55,93
CBR050	50	57,14
CBR051	51	71,06
CBR052	52	71,06
CBR053	53	71,06
CBR054	54	71,06
CBR055	55	71,06
CBR056	56	84,66
CBR057	57	84,66
CBR058	58	84,66
CBR059	59	84,66
CBR060	60	84,66
CBR061	61	98,86
CBR062	62	98,86
CBR063	63	98,86
CBR064	64	98,86
CBR065	65	98,86
CBR066	66	124,52
CBR067	67	124,52
CBR068	68	124,52
CBR069	69	124,52

	CBR Ø mm	CBR €
CBR070	70	124,52
CBR071	71	130,92
CBR072	72	130,92
CBR073	73	130,92
CBR074	74	130,92
CBR075	75	130,92
CBR076	76	148,86
CBR077	77	148,86
CBR078	78	148,86
CBR079	79	148,86
CBR080	80	148,86
CBR081	81	169,68
CBR082	82	169,70
CBR083	83	171,77
CBR084	84	169,68
CBR085	85	169,68
CBR086	86	177,99
CBR087	87	180,04
CBR088	88	178,32
CBR089	89	178,32
CBR090	90	178,32
CBR091	91	195,88
CBR092	92	198,02
CBR093	93	195,27
CBR094	94	194,54
CBR095	95	196,60
CBR096	96	206,62
CBR097	97	208,78
CBR098	98	206,88
CBR099	99	208,99
CBR100	100	206,95

Queste frese a tazza si somministrano sempre, senza eccezioni, con gambo a codolo cilindrico e punta pilota.



Ref. AT12



Ref. CM12

GAMBI PER FRESE A TAZZA RIAFFILABILI CON O SENZA TiN

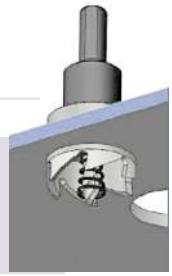
	DESCRIZIONE	INTERVALLO Ø mm	€
AT09	Codolo Ø7mm Filettatura triangolare M9x1,25+punta Ø5mm	10 - 13	15,32
AT10	Codolo Ø8mm Filettatura triangolare M10x1,25+punta Ø5mm	14 - 22	15,32
AT12	Codolo Ø9mm Filettatura triangolare M12x1,25+punta Ø6mm	23 - 40	17,15
AT16	Codolo Ø10mm Filettatura triangolare M16x1,25+punta Ø6mm	41 - 60	21,80
AT20	Codolo Ø12mm Filettatura triangolare M20x1,25+punta Ø8mm	61 - 90	24,95
AT28	Codolo Ø13mm Filettatura triangolare M28x2,00+punta Ø 8 mm	91 - 100	33,66
CM09	Cono Morse 2 - filettatura M09x1,25 + punta Ø5mm	10 - 13	39,39
CM10	Cono Morse 2 - filettatura M10x1,25 + punta Ø5mm	14 - 22	39,39
CM12	Cono Morse 2 - filettatura M12x1,25 + punta Ø6mm	23 - 40	40,26
CM16	Cono Morse 2 - filettatura M16x1,25 + punta Ø6mm	41 - 60	40,26
CM20	Cono Morse 3 - filettatura M20x1,25 + punta Ø8mm	61 - 90	58,43
CM28	Cono Morse 4 - filettatura M28x2,00 + punta Ø8mm	91 - 100	96,89

PUNTE PILOTA

	DESCRIZIONE	INTERVALLO Ø mm	€
B5	HSS Ø 5 mm	10 - 22	6,00
B6	HSS Ø 6 mm	23 - 60	6,92
B8	HSS Ø 8 mm	61 - 100	7,65
B6TIN	HSS + TiN Ø 6 mm	23 - 60	10,05
B8TIN	HSS + TiN Ø 8 mm	61 - 100	11,11



FRESA A TAZZA RIAFFILABILE HSS + TIN PER METALLI



HSS | TiN | Ref. CBR..T | Al | Cu-Ni-La | GHISA | 5 mm CAPACITÀ DI TAGLIO



	CBR..T	
	Ø mm	€
CBR010T	10	27,87
CBR011T	11	28,45
CBR012T	12	27,72
CBR013T	13	30,44
CBR014T	14	30,44
CBR015T	15	30,78
CBR016T	16	32,85
CBR017T	17	36,95
CBR018T	18	37,96
CBR019T	19	41,64
CBR020T	20	42,78
CBR021T	21	44,08
CBR022T	22	46,41
CBR023T	23	48,56
CBR024T	24	50,55
CBR025T	25	51,82
CBR026T	26	58,77
CBR027T	27	60,08
CBR028T	28	61,80
CBR029T	29	63,13
CBR030T	30	63,81
CBR031T	31	67,14
CBR032T	32	68,92
CBR033T	33	70,81
CBR034T	34	73,00
CBR035T	35	75,26
CBR036T	36	77,47
CBR037T	37	79,67
CBR038T	38	81,52

	CBR..T	
	Ø mm	€
CBR039T	39	84,13
CBR040T	40	86,37
CBR041T	41	88,16
CBR042T	42	90,44
CBR043T	43	92,34
CBR044T	44	94,88
CBR045T	45	97,09
CBR046T	46	99,03
CBR047T	47	101,24
CBR048T	48	105,44
CBR049T	49	105,64
CBR050T	50	107,49
CBR051T	51	129,01
CBR052T	52	131,89
CBR053T	53	134,52
CBR054T	54	137,27
CBR055T	55	140,31
CBR056T	56	140,49
CBR057T	57	143,24
CBR058T	58	146,45
CBR059T	59	148,88
CBR060T	60	151,75
CBR061T	61	178,92
CBR062T	62	182,31
CBR063T	63	185,43
CBR064T	64	188,53
CBR065T	65	192,10
CBR066T	66	198,63
CBR067T	67	201,76
CBR068T	68	205,12
CBR069T	69	208,24

	CBR..T	
	Ø mm	€
CBR070T	70	214,41
CBR071T	71	214,41
CBR072T	72	217,82
CBR073T	73	221,14
CBR074T	74	224,38
CBR075T	75	227,63
CBR076T	76	229,13
CBR077T	77	232,38
CBR078T	78	235,63
CBR079T	79	239,13
CBR080T	80	241,57
CBR081T	81	243,32
CBR082T	82	246,66
CBR083T	83	249,84
CBR084T	84	253,29
CBR085T	85	256,68
CBR086T	86	259,12
CBR087T	87	262,15
CBR088T	88	265,57
CBR089T	89	268,93
CBR090T	90	273,45
CBR091T	91	280,96
CBR092T	92	284,18
CBR093T	93	287,94
CBR094T	94	291,35
CBR095T	95	294,58
CBR096T	96	296,92
CBR097T	97	300,01
CBR098T	98	303,55
CBR099T	99	306,90
CBR100T	100	312,44

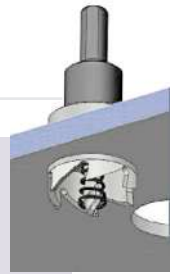
Queste frese a tazza si somministrano sempre, senza eccezioni, con gambo a codolo cilindrico e punta pilota.

ESPOSITORE FRESE A TAZZA RIAFFILABILI

	E41P
Contenuto: 41 Frese a tazza Ref. CBR Ø 10 - Ø 50 mm	
	1.405,00 €



FRESA A TAZZA RIAFFILABILE HSSCo PER METALLI (SPECIALE INOX)



HSSCo | INOX

Ref. CBC



Al | Cu-Ni-La | GHISA

10 mm CAPACITÀ DI TAGLIO





Affilatura speciale con rompitruciolo

	CBC Ø mm	CBC €
CBC012	12	27,13
CBC013	13	27,13
CBC014	14	27,13
CBC015	15	27,88
CBC016	16	28,48
CBC017	17	28,93
CBC018	18	29,69
CBC019	19	31,07
CBC020	20	32,44
CBC021	21	34,08
CBC022	22	36,05
CBC023	23	37,27
CBC024	24	38,49
CBC025	25	40,01
CBC026	26	41,52
CBC027	27	43,33
CBC028	28	44,70
CBC029	29	46,21
CBC030	30	47,72
CBC031	31	48,93
CBC032	32	50,60
CBC033	33	52,11
CBC034	34	53,77
CBC035	35	55,61
CBC036	36	56,81
CBC037	37	58,48
CBC038	38	60,46
CBC039	39	64,22
CBC040	40	65,14
CBC041	41	65,88

	CBC Ø mm	CBC €
CBC042	42	66,48
CBC043	43	67,95
CBC044	44	69,15
CBC045	45	71,09
CBC046	46	72,26
CBC047	47	74,07
CBC048	48	75,40
CBC049	49	76,87
CBC050	50	78,20
CBC051	51	110,08
CBC052	52	112,67
CBC053	53	114,26
CBC054	54	116,41
CBC055	55	119,30
CBC056	56	121,30
CBC057	57	123,31
CBC058	58	125,33
CBC059	59	127,62
CBC060	60	129,49
CBC061	61	155,22
CBC062	62	157,81
CBC063	63	159,68
CBC064	64	162,70
CBC065	65	165,16
CBC066	66	173,91
CBC067	67	175,99
CBC068	68	178,53
CBC069	69	180,29
CBC070	70	182,97
CBC071	71	184,43

	CBC Ø mm	CBC €
CBC072	72	187,12
CBC073	73	189,64
CBC074	74	192,17
CBC075	75	194,82
CBC076	76	197,80
CBC077	77	199,89
CBC078	78	202,41
CBC079	79	205,08
CBC080	80	208,04
CBC081	81	210,12
CBC082	82	212,80
CBC083	83	215,31
CBC084	84	217,83
CBC085	85	220,51
CBC086	86	223,04
CBC087	87	225,55
CBC088	88	228,23
CBC089	89	230,59
CBC090	90	233,26
CBC091	91	235,94
CBC092	92	238,31
CBC093	93	240,98
CBC094	94	243,66
CBC095	95	246,02
CBC096	96	248,56
CBC097	97	251,22
CBC098	98	253,60
CBC099	99	256,28
CBC100	100	263,98

Queste frese a tazza si somministrano sempre, senza eccezioni, con gambo a codolo cilindrico e punta pilota.

Ref. HCBC1



GAMBI PER FRESE A TAZZA RIAFFILABILI CON E SENZA TiAlN

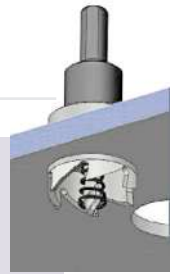
	DESCRIZIONE	INTERVALLO Ø mm	€
HCBC0	Codolo 7mm Triangular Filettatura M09x1,25+Punta Ø 5 mm	10 - 13	10,09
HCBC1	Codolo 8mm Triangular Filettatura M10x1,25+Punta Ø 5 mm	14 - 22	10,09
HCBC2	Codolo 9mm Triangular Filettatura M12x1,25+Punta Ø 6 mm	23 - 35	10,09
HCBC3	Codolo 10mm Triangular Filettatura M16x1,25+Punta Ø 6 mm	36 - 49	11,29
HCBC4	Codolo 12mm Triangular Filettatura M20x1,50+Punta Ø 8 mm	50 - 90	14,34
HCBC5	Codolo 13mm Triangular Filettatura M28x2,00+Punta Ø 8 mm	91 -100	16,43
HCBC0-CM2	Cono Morse 2 Filettatura M09x1,25 +Punta Ø 5 mm	10 - 13	25,93
HCBC1-CM2	Cono Morse 2 Filettatura M10x1,25 +Punta Ø 5 mm	14 - 22	25,93
HCBC2-CM2	Cono Morse 2 Filettatura M12x1,25 +Punta Ø 6 mm	23 - 35	26,51
HCBC2-CM3	Cono Morse 3 Filettatura M12x1,25 +Punta Ø 6 mm	23 - 35	37,98
HCBC3-CM2	Cono Morse 2 Filettatura M16x1,25 +Punta Ø 6 mm	36 - 49	37,98
HCBC3-CM3	Cono Morse 3 Filettatura M16x1,25 +Punta Ø 6 mm	36 - 49	37,98
HCBC4-CM3	Cono Morse 3 Filettatura M20x1,50 +Punta Ø 8 mm	50 - 90	38,46
HCBC4-CM4	Cono Morse 4 Filettatura M20x1,50 +Punta Ø 8 mm	50 - 90	63,80
HCBC5-CM3	Cono Morse 3 Filettatura M28x2,00 +Punta Ø 8 mm	91 -100	63,80
HCBC5-CM4	Cono Morse 4 Filettatura M28x2,00 +Punta Ø 8 mm	91 -100	63,80



PUNTE PILOTA

	DESCRIZIONE	INTERVALLO Ø mm	€
PCBC1	Guía HSSCo Ø 5 mm	10 - 22	3,95
PCBC2	Guía HSSCo Ø 6 mm	23 - 49	4,56
PCBC3	Guía HSSCo Ø 8 mm	50 -100	5,05
PCBC1TL	Guía HSSCo+TiALN Ø5 mm	10 - 22	5,53
PCBC2TL	Guía HSSCo+TiALN Ø6 mm	23 - 49	6,38
PCBC3TL	Guía HSSCo+TiALN Ø8 mm	50 -100	7,06

FRESA A TAZZA RIAFFILABILE HSSCO + TIALN PER METALLI (SPECIALE INOX)



HSSCo | INOX | TiAlN

Ref. CBCTL



Al | Cu-Ni-La | GHISA

10 mm CAPACITÀ DI TAGLIO



	CBCTL	
	Ø mm	€
CBC012TL	12	38,91
CBC013TL	13	38,91
CBC014TL	14	38,91
CBC015TL	15	40,00
CBC016TL	16	43,29
CBC017TL	17	45,14
CBC018TL	18	45,86
CBC019TL	19	49,82
CBC020TL	20	51,54
CBC021TL	21	53,69
CBC022TL	22	57,01
CBC023TL	23	58,83
CBC024TL	24	60,40
CBC025TL	25	62,62
CBC026TL	26	70,07
CBC027TL	27	72,48
CBC028TL	28	73,77
CBC029TL	29	75,00
CBC030TL	30	76,17
CBC031TL	31	77,67
CBC032TL	32	79,77
CBC033TL	33	81,70
CBC034TL	34	84,29
CBC035TL	35	88,07
CBC036TL	36	89,57
CBC037TL	37	92,08
CBC038TL	38	94,75
CBC039TL	39	101,71
CBC040TL	40	103,07
CBC041TL	41	104,47

	CBCTL	
	Ø mm	€
CBC042TL	42	104,64
CBC043TL	43	107,16
CBC044TL	44	109,36
CBC045TL	45	112,30
CBC046TL	46	114,40
CBC047TL	47	117,14
CBC048TL	48	120,69
CBC049TL	49	121,42
CBC050TL	50	123,10
CBC051TL	51	167,79
CBC052TL	52	175,21
CBC053TL	53	180,89
CBC054TL	54	187,75
CBC055TL	55	196,31
CBC056TL	56	204,94
CBC057TL	57	212,00
CBC058TL	58	219,81
CBC059TL	59	227,21
CBC060TL	60	234,61
CBC061TL	61	235,87
CBC062TL	62	243,95
CBC063TL	63	250,67
CBC064TL	64	259,34
CBC065TL	65	267,81
CBC066TL	66	276,09
CBC067TL	67	283,47
CBC068TL	68	292,04
CBC069TL	69	299,16
CBC070TL	70	301,00
CBC071TL	71	303,62

	CBCTL	
	Ø mm	€
CBC072TL	72	309,00
CBC073TL	73	317,67
CBC074TL	74	326,29
CBC075TL	75	335,33
CBC076TL	76	339,47
CBC077TL	77	340,26
CBC078TL	78	341,51
CBC079TL	79	354,68
CBC080TL	80	359,87
CBC081TL	81	362,49
CBC082TL	82	364,43
CBC083TL	83	368,96
CBC084TL	84	374,82
CBC085TL	85	376,26
CBC086TL	86	378,69
CBC087TL	87	379,14
CBC088TL	88	391,82
CBC089TL	89	396,49
CBC090TL	90	403,16
CBC091TL	91	407,13
CBC092TL	92	411,41
CBC093TL	93	418,26
CBC094TL	94	420,49
CBC095TL	95	424,77
CBC096TL	96	425,42
CBC097TL	97	425,72
CBC098TL	98	438,14
CBC099TL	99	443,09
CBC100TL	100	458,98

Queste frese a tazza si somministrano sempre, senza eccezioni, con gambi a codolo cilindrico e punta pilota.

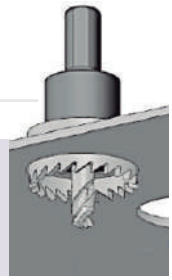
ESPOSITORE FRESE A TAZZA RIAFFILABILI

CBC41P
Contenuto: 39 Frese a tazza Ref. CBC Ø 12 - Ø 50 mm
1.952,74 €



* Set ed espositori su richiesta.

FRESA A TAZZA RIAFFILABILE HSS PER METALLI SOTTILI



HSS Ref. **CCF**



Al



Cu - Ni - La

GHISA

2 mm CAPACITÀ DI TAGLIO





	Ø mm	CCF €
CCF12	12	**20,68**
CCF13	13	**22,42**
CCF14	14	**22,42**
CCF15	15	**22,84**
CCF16	16	**22,84**
CCF17	17	**25,47**
CCF18	18	**26,33**
CCF19	19	**27,56**
CCF20	20	**28,19**
CCF21	21	**29,00**
CCF22	22	**30,71**
CCF23	23	**32,18**
CCF24	24	**33,42**
CCF25	25	**34,20**
CCF26	26	**35,62**
CCF27	27	**36,90**
CCF28	28	**38,72**
CCF29	29	**40,45**
CCF30	30	**41,38**

	Ø mm	CCF €
CCF31	31	**44,76**
CCF32	32	**46,66**
CCF33	33	**48,24**
CCF34	34	**49,75**
CCF35	35	**50,48**
CCF36	36	**52,45**
CCF37	37	**53,99**
CCF38	38	**55,55**
CCF39	39	**56,68**
CCF40	40	**58,25**
CCF41	41	**60,15**
CCF42	42	**61,32**
CCF43	43	**62,49**
CCF44	44	**63,99**
CCF45	45	**65,57**
CCF46	46	**66,72**
CCF47	47	**68,27**
CCF48	48	**70,19**
CCF49	49	**71,34**

Queste frese a tazza si somministrano sempre, senza eccezioni, con gambo a codolo cilindrico e punta pilota.



Ref. **AT12**



Ref. **CM12**

GAMBI PER FRESE A TAZZA RIAFFILABILI

	DESCRIZIONE	INTERVALLO Ø mm	€
AT09	Codolo Ø7mm Triangular filettatura M9x1,25+punta Ø5mm	10 - 13	**15,32**
AT10	Codolo Ø8mm Triangular filettatura M10x1,25+punta Ø5mm	14 - 22	**15,32**
AT12	Codolo Ø9mm Triangular filettatura M12x1,25+punta Ø6mm	23 - 40	**17,15**
AT16	Codolo Ø10mm Triangular filettatura M16x1,25+punta Ø6mm	41 - 60	**21,80**
CM09	Cono Morse 2 - filettatura M09x1,25 + punta Ø5mm	10 - 13	**39,39**
CM10	Cono Morse 2 - filettatura M10x1,25 + punta Ø5mm	14 - 22	**39,39**
CM12	Cono Morse 2 - filettatura M12x1,25 + punta Ø6mm	23 - 40	**40,26**
CM16	Cono Morse 2 - filettatura M16x1,25 + punta Ø6mm	41 - 60	**40,26**

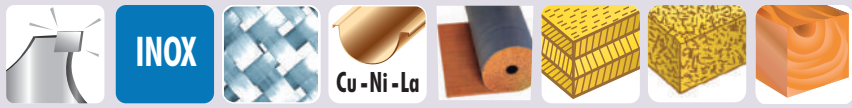
PUNTE PILOTA

	DESCRIZIONE	INTERVALLO Ø mm	€
B5	HSS Ø 5 mm	10 - 22	**6,00**
B6	HSS Ø 6 mm	23 - 60	**6,92**
B6TIN	HSS + TiN Ø 6 mm	23 - 60	**10,05**

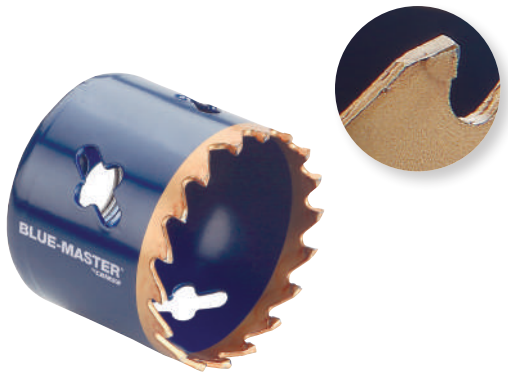


SEGA A TAZZA CON DENTI IN METALLO DURO RAZORBACK

Ref. CBMD



35 mm CAPACITÀ DI TAGLIO



- Denti in metallo duro.
- Speciale per lavori intensivi in acciaio inossidabile.
- Resistono all'abrasione meglio delle seghe a tazza bimetalliche.
- Trapana dove non vanno quelli seghe a tazza bimetallici.
- Aumenta e migliora la produttività nel trapanato.
- Si consiglia di non trapanare materiali metallici superiori a 3 mm.

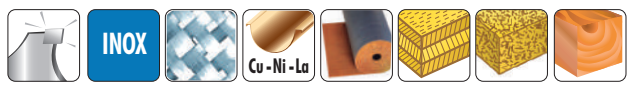
ø mm			Blister	
	Ref.	€	Ref.	€
19	CBMD19	17,70	CBMD19B	17,70
22	CBMD22	20,51	CBMD22B	20,51
25	CBMD25	23,29	CBMD25B	23,29
30	CBMD30	27,95	CBMD30B	27,95
32	CBMD32	29,72	CBMD32B	29,72
35	CBMD35	32,62	CBMD35B	32,62
37	CBMD37	34,49	CBMD37B	34,49
38	CBMD38	35,43	CBMD38B	35,43
44	CBMD44	40,99	CBMD44B	40,99
48	CBMD48	44,75	CBMD48B	44,75
51	CBMD51	47,53	CBMD51B	47,53
54	CBMD54	50,33	CBMD54B	50,33
57	CBMD57	53,04	CBMD57B	53,04
60	CBMD60	55,91	CBMD60B	55,91
64	CBMD64	59,64	CBMD64B	59,64
67	CBMD67	62,43	CBMD67B	62,43
70	CBMD70	65,24	CBMD70B	65,24
76	CBMD76	70,82	CBMD76B	70,82
83	CBMD83	77,36	CBMD83B	77,36
86	CBMD86	80,17		
89	CBMD89	82,95		
95	CBMD95	88,56		
102	CBMD102	95,07		
108	CBMD108	100,66		
111	CBMD111	103,46		
114	CBMD114	106,26		
121	CBMD121	112,78		
127	CBMD127	118,37		
140	CBMD140	130,49		
146	CBMD146	136,08		
152	CBMD152	141,67		

- Gli alberi per la CBMD sono gli stessi di quelli per le seghe a tazza CB e COB.





Ref. CBMD



ALBERI

ESPPOSITORE DI SEGHE A TAZZA HSS-Co 8% BLUEMASTER

B5519	CBMD19	CBMD22	CBMD25	CBMD30	CBMD32	CBMD35	CBMD38
Ø 14-30	Ø 19	Ø 22	Ø 25	Ø 30	Ø 32	Ø 35	Ø 38
4	2	2	2	2	2	2	2
B5546	**CBMD44**	**CBMD48**	**CBMD51**	**CBMD54**	**CBMD60**	**CBMD67**	**CBMD70**
Ø32-250	Ø 44	Ø 48	Ø 51	Ø 54	Ø 60	Ø 67	Ø 70
4	2	2	2	2	2	2	2

Ref. CBMDEXP1

1.255,50 €

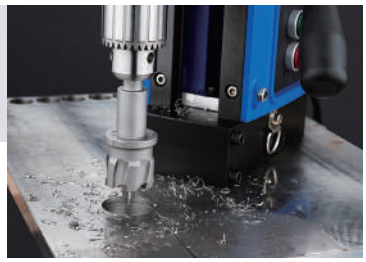
530 mm

885 mm

FRESA A TAZZA IN METALLO DURO CON PUNZONE RETRATTILE PER LAVORO SERIALE

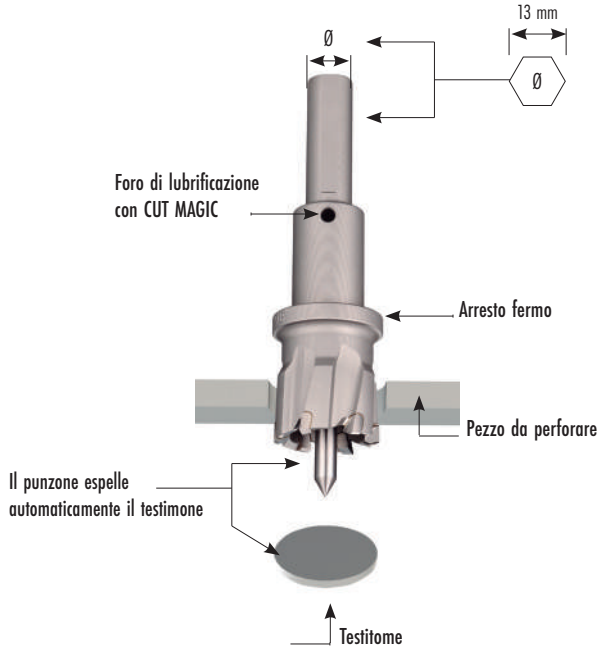
Ref. CP

MD | Al | Cu-Ni-La | GHISA | 12 mm CAPACITÀ DI TAGLIO



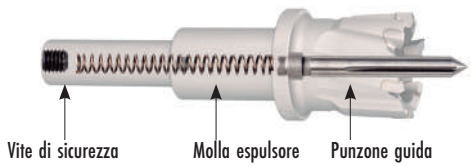


	CP	
	Ø mm	€
CP1500	15	105,75
CP1600	16	105,75
CP1700	17	105,75
CP1800	18	105,75
CP1900	19	105,75
CP2000	20	105,75
CP2100	21	105,75
CP2200	22	117,14
CP2300	23	117,14
CP2400	24	117,14
CP2500	25	125,45
CP2600	26	125,45
CP2700	27	125,45
CP2800	28	125,45
CP2900	29	125,45
CP3000	30	125,45
CP3100	31	148,25
CP3200	32	148,25
CP3300	33	148,25
CP3400	34	148,25
CP3500	35	148,25

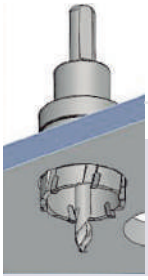


PUNZONE DI RICAMBIO





	PCP01	
	Ø mm	€
PCP01	Ø 6 x 53 mm	17,79



SUPER FRESE A TAZZA IN METALLO DURO PER TUTTI I TIPI DI MATERIALI (SPECIALE INOX)

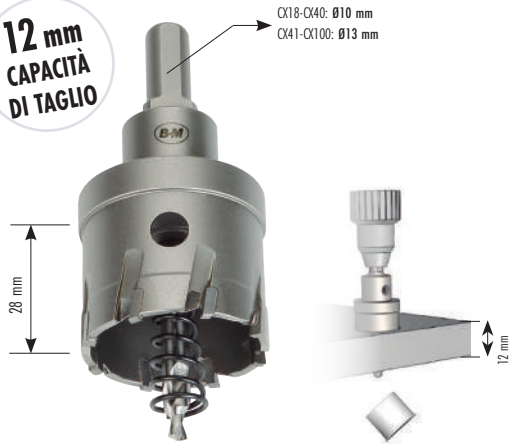


MD |  | INOX | Al |  Cu-Ni-La | GHISA

* Corpo monoblocco



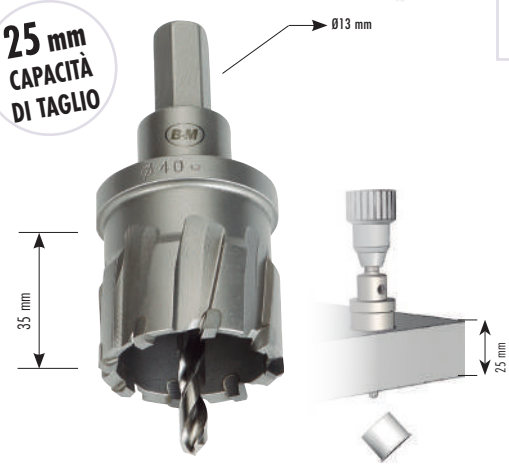
12 mm CAPACITÀ DI TAGLIO



GEOMETRIA SPECIFICA INOX



25 mm CAPACITÀ DI TAGLIO



Ref. **CX**

	Ø mm	Z	CX €
CX18	18	4	63,65
CX19	19	4	63,65
CX20	20	6	63,65
CX21	21	6	63,65
CX22	22	6	63,65
CX23	23	6	63,65
CX24	24	6	63,65
CX25	25	6	63,65
CX26	26	6	73,76
CX27	27	6	73,76
CX28	28	6	73,76
CX29	29	6	73,76
CX30	30	6	73,76
CX31	31	6	85,39
CX32	32	6	85,39
CX33	33	6	85,39
CX34	34	8	85,39
CX35	35	8	85,39
CX36	36	8	93,17
CX38	38	8	93,17
CX39	39	8	93,17
CX40	40	8	93,17
CX41	41	8	107,73
CX42	42	8	107,73
CX43	43	8	107,73
CX44	44	10	107,73
CX45	45	10	107,73
CX46	46	10	123,74

	Ø mm	Z	CX €
CX48	48	10	123,74
CX49	49	10	123,74
CX50	50	10	123,74
CX51	51	10	171,98
CX52	52	10	171,98
CX53	53	10	171,98
CX55	55	10	171,98
CX56	56	12	199,26
CX57	57	12	199,26
CX58	58	12	199,26
CX59	59	12	199,26
CX60	60	12	199,26
CX61	61	12	233,85
CX62	62	12	233,85
CX63	63	12	233,85
CX64	64	12	233,85
CX65	65	12	233,85
CX66	66	12	266,08
CX67	67	12	266,08
CX68	68	12	266,08
CX69	69	12	266,08
CX70	70	12	266,08
CX75	75	14	300,79
CX80	80	14	313,06
CX85	85	14	341,26
CX90	90	16	349,72
CX95	95	16	367,28
CX100	100	16	380,36

Ref. **CXL**

	Ø mm	Z	CXL €
CXL18	18	6	85,94
CXL19	19	6	85,94
CXL20	20	6	85,94
CXL21	21	6	85,94
CXL22	22	6	85,94
CXL23	23	6	85,94
CXL24	24	6	85,94
CXL25	25	6	85,94
CXL26	26	6	99,58
CXL27	27	6	99,58
CXL28	28	6	99,58
CXL29	29	6	99,58
CXL30	30	6	99,58
CXL31	31	6	115,28
CXL32	32	6	115,28
CXL33	33	6	115,28
CXL34	34	6	115,28
CXL35	35	6	115,28
CXL36	36	6	125,79
CXL38	38	6	125,79
CXL39	39	6	125,79
CXL40	40	8	125,79
CXL41	41	8	145,44
CXL42	42	8	145,44
CXL43	43	8	145,44
CXL44	44	8	145,44
CXL45	45	8	145,44
CXL46	46	8	167,06

	Ø mm	Z	CXL €
CXL48	48	8	167,06
CXL49	49	8	167,06
CXL50	50	8	167,06
CXL51	51	8	232,18
CXL52	52	8	232,18
CXL53	53	8	232,18
CXL55	55	8	232,18
CXL56	56	8	269,01
CXL57	57	8	269,01
CXL58	58	8	269,01
CXL59	59	8	269,01
CXL60	60	8	269,01
CXL61	61	10	315,70
CXL62	62	10	315,70
CXL63	63	10	315,70
CXL64	64	10	315,70
CXL65	65	10	315,70

PUNTA PILOTA CX



	Ø mm	CX €
BRCX06X70	Ø 6 x 70 mm	13,89

PUNTA PILOTA CXL



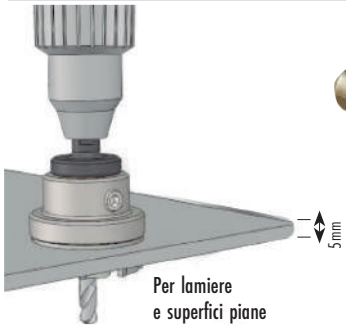
	Ø mm	CXL €
BRCXL06X75	Ø 6 x 75 mm	16,16

SUPER FRESE A TAZZA IN METALLO DURO PER TUBI E LAMIERE (SPECIALE INOX)

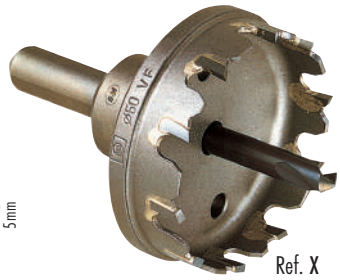
Ref. X
Ref. XT

MD | INOX | Al | Cu-Ni-La | GHISA

5 mm CAPACITÀ DI TAGLIO

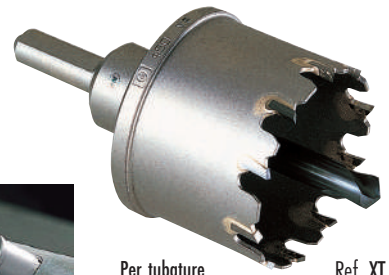


Per lamiere e superfici piane



Ref. X





Per tubature e superfici curve

Ref. XT

	Ø mm	Z	X €
X14	14,0	3	79,85
X14,5	14,5	3	79,85
X15	15,0	3	79,85
X16	16,0	3	79,85
X17	17,0	4	79,85
X18	18,0	4	79,85
X19	19,0	4	79,85
X20	20,0	4	79,85
X21	21,0	4	79,85
X22	22,0	4	79,85
X23	23,0	4	79,85
X24	24,0	4	79,85
X25	25,0	4	79,85
X26	26,0	4	92,52
X27	27,0	4	92,52
X28	28,0	6	92,52
X29	29,0	6	92,52
X30	30,0	6	92,52
X31	31,0	6	107,12
X32	32,0	6	107,12
X33	33,0	6	107,12
X34	34,0	6	107,12
X35	35,0	8	107,12
X36	36,0	8	124,66
X37	37,0	8	124,66
X38	38,0	8	124,66
X39	39,0	8	124,66
X40	40,0	8	124,66
X41	41,0	8	144,15
X42	42,0	10	144,15
X43	43,0	10	144,15
X44	44,0	10	144,15
X45	45,0	10	144,15
X46	46,0	10	165,56
X47	47,0	10	165,56
X48	48,0	10	165,56
X49	49,0	10	165,56
X50	50,0	10	165,56
X51	51,0	10	184,09
X52	52,0	10	184,09
X53	53,0	10	184,09
X54	54,0	10	184,09

	Ø mm	Z	X €
X55	55,0	12	184,09
X56	56,0	12	213,28
X57	57,0	12	213,28
X58	58,0	12	213,28
X59	59,0	12	213,28
X60	60,0	12	213,28
X61	61,0	12	250,31
X62	62,0	12	250,31
X63	63,0	12	250,31
X64	64,0	12	250,31
X65	65,0	12	250,31
X66	66,0	12	271,23
X67	67,0	12	271,23
X68	68,0	12	271,23
X69	69,0	12	271,23
X70	70,0	12	271,23
X71	71,0	14	293,13
X72	72,0	14	293,13
X73	73,0	14	293,13
X74	74,0	14	293,13
X75	75,0	14	293,13
X76	76,0	14	315,08
X77	77,0	14	315,08
X78	78,0	14	315,08
X79	79,0	14	315,08
X80	80,0	14	315,08
X81	81,0	14	348,66
X82	82,0	16	348,66
X83	83,0	16	348,66
X84	84,0	16	348,66
X85	85,0	16	348,66
X89	89,0	16	382,75
X90	90,0	16	382,75
X91	91,0	16	398,34
X92	92,0	16	398,34
X95	95,0	16	398,34
X100	100,0	18	424,62
X102	102,0	18	468,45
X105	105,0	18	468,45
X110	110,0	20	516,18
X115	115,0	20	567,81
X120	120,0	20	625,74

	Ø mm	Z	XT €
XT16	16,0	3	119,88
XT17	17,0	4	119,88
XT18	18,0	4	119,88
XT19	19,0	4	119,88
XT20	20,0	4	119,88
XT21	21,0	4	119,88
XT22	22,0	4	119,88
XT23	23,0	4	119,88
XT24	24,0	4	119,88
XT25	25,0	4	119,88
XT26	26,0	4	138,93
XT27	27,0	4	138,93
XT28	28,0	6	138,93
XT29	29,0	6	138,93
XT30	30,0	6	138,93
XT31	31,0	6	160,78
XT32	32,0	6	160,78
XT33	33,0	6	160,78
XT34	34,0	6	160,78
XT35	35,0	8	160,78
XT36	36,0	8	187,00
XT37	37,0	8	187,00
XT38	38,0	8	187,00
XT39	39,0	8	187,00
XT40	40,0	8	187,00
XT41	41,0	8	216,22
XT42	42,0	10	216,22
XT43	43,0	10	216,22
XT44	44,0	10	216,22
XT45	45,0	10	216,22
XT46	46,0	10	245,44
XT47	47,0	10	245,44
XT48	48,0	10	245,44
XT49	49,0	10	245,44
XT50	50,0	10	245,44
XT51	51,0	10	276,34
XT52	52,0	10	276,34
XT53	53,0	10	276,34
XT54	54,0	10	276,34
XT55	55,0	12	276,34
XT60	60,0	12	409,05
XT61	61,0	12	409,05

	Ø mm	Z	XT €
XT62	62,0	12	409,05
XT65	65,0	12	409,05
XT70	70,0	12	428,52
XT75	75,0	14	463,58
XT80	80,0	14	498,66
XT85	85,0	16	551,22
XT90	90,0	16	603,82
XT95	95,0	16	633,05
XT100	100,0	18	672,01
XT105	105,0	18	740,18
XT110	110,0	20	818,08
XT115	115,0	20	899,92
XT120	120,0	20	993,41
XT130	130,0	20	1.561,94
XT140	140,0	25	1.835,16
XT150	150,0	28	2.226,97

PUNTE PILOTA HSS-Co PER METALLO



	INTERVALLO Ø mm	€
X6	14 - 59	13,67
X8	60 - 120	16,11
XT6	6 - 22	18,66

	INTERVALLO Ø mm	€
XT8	23 - 59	24,94
XT8L	60 - 100	32,16
XT8XL	105 - 120	36,32

TABELLA DI SELEZIONE PER SUPER FRESE A TAZZA MULTIFUNZIONE IN METALLO DURO





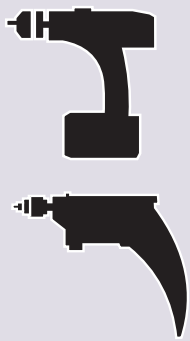
5 mm CAPACITÀ DI TAGLIO

Ref. **C50X**



50 mm CAPACITÀ DI TAGLIO

Ref. **CXX**



9 mm — Ø14-60 — Ref. **BCX1**

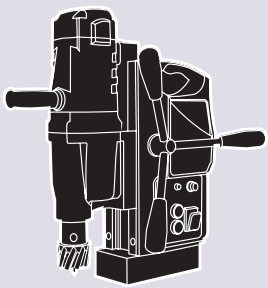
11 mm — Ø14-100 — Ref. **BCX2**

9 mm — Ø14-60 — Ref. **BCX1**

11 mm — Ø14-100 — Ref. **BCX2**

\+  Ref. **C50X** + Ref. **CXX2** = 

\+  Ref. **CXX** +  Ref. **CXX1** = 



FEIN 18-00 mm



Ref. **CXX18W**

DOBLE WELDON 19-05 mm



Ref. **CXXW**

\+   Ref. **C50X** Ref. **CXX** + Ref. **P750CA** =  





Ø14-100
Ref. **CXXCM2**



Ø14-150
Ref. **CXXCM3**

\+  Ref. **C50X**  Ref. **CXX** + Ref. **CXX2** Ref. **CXX1** =  

SUPER FRESA A TAZZA MULTIFUNZIONE IN METALLO DURO PER PIENI

MD

Ref. CXX



Al



Cu - Ni - La

GHISA

50 mm CAPACITÀ DI TAGLIO







	CXX	
	Ø mm	€
CXX14	14	133,05
CXX15	15	133,05
CXX16	16	133,05
CXX17	17	133,05
CXX18	18	133,05
CXX19	19	133,05
CXX20	20	133,05
CXX21	21	133,05
CXX22	22	133,05
CXX23	23	133,05
CXX24	24	133,05
CXX25	25	133,05
CXX26	26	154,19
CXX27	27	154,19
CXX28	28	154,19
CXX29	29	154,19
CXX30	30	154,19
CXX31	31	178,50
CXX32	32	178,50
CXX33	33	178,50
CXX34	34	178,50
CXX35	35	178,50
CXX36	36	194,76
CXX37	37	194,77
CXX38	38	194,76
CXX39	39	194,76
CXX40	40	194,76
CXX41	41	225,20
CXX42	42	225,20
CXX43	43	225,20
CXX44	44	225,20

	CXX	
	Ø mm	€
CXX45	45	225,20
CXX46	46	258,64
CXX47	47	258,64
CXX48	48	258,64
CXX49	49	258,64
CXX50	50	258,64
CXX51	51	287,58
CXX52	52	287,58
CXX53	53	287,58
CXX54	54	287,58
CXX55	55	287,58
CXX56	56	333,20
CXX57	57	333,20
CXX58	58	333,20
CXX59	59	333,20
CXX60	60	333,20
CXX61	61	391,04
CXX62	62	391,04
CXX63	63	391,04
CXX64	64	391,04
CXX65	65	391,04
CXX66	66	459,41
CXX67	67	459,41
CXX68	68	459,41
CXX69	69	459,41
CXX70	70	459,41
CXX75	75	476,69
CXX80	80	515,68
CXX85	85	552,41
CXX90	90	594,04
CXX100	100	638,11

GAMBI PER FRESE A TAZZA MULTIFUNZIONE CODOLO ESAGONALE





	DESCRIZIONE	INTERVALLO Ø mm	€
BCX1	Codolo esagonale 9 mm	14 - 60	21,12
BCX2	Codolo esagonale 11 mm	14 - 100	21,12

GAMBI PER FRESE A TAZZA MULTIFUNZIONE CODOLO CONICO



	DESCRIZIONE	INTERVALLO Ø mm	€
CXXCM2	Codolo Cono Morse 2	14 - 100	38,26
CXXCM3	Codolo Cono Morse 3	14 - 150	40,71

PUNTE PILOTA



		CXX
	DESCRIZIONE	€
CXX1	Ø 6 x 90L mm	8,15

ADATTATORI SUPPORTO ELETTROMAGNETICO



Tipo Fein



Tipo Weldon

		CXX
		€
CXX18W	Codolo Fein 18,00 mm	38,26
CXXW	Codolo Weldon 19,05 mm	38,26

PUNZONE



		P
		€
P750CA	Ø 6.35 mm x 100 mm	17,39

SUPER FRESA A TAZZA MULTIFUNZIONE IN METALLO DURO PER TUBI E LAMIERE

MD

Ref. C50X



Al



Cu-Ni-La

GHISA





5 mm CAPACITÀ DI TAGLIO







GAMBI PER FRESE A TAZZA MULTIFUNZIONE CODOLO ESAGONALE





	DESCRIZIONE	INTERVALLO Ø mm	€
BCX1	Codolo esagonale 9 mm	14 - 60	21,12
BCX2	Codolo esagonale 11 mm	14 - 100	21,12

GAMBI PER FRESE A TAZZA MULTIFUNZIONE CODOLO CONICO



	DESCRIZIONE	INTERVALLO Ø mm	€
CXXCM2	Codolo Cono Morse 2	14 - 100	38,26
CXXCM3	Codolo Cono Morse 3	14 - 150	40,71

PUNTE PILOTA



	DESCRIZIONE	CXX €
CXX2	Ø 6 x 75L mm	7,65

	C50X Ø mm	C50X €
C50X14	14	63,37
C50X15	15	63,37
C50X16	16	63,37
C50X17	17	63,37
C50X18	18	63,37
C50X19	19	71,53
C50X20	20	71,53
C50X21	21	71,53
C50X22	22	71,53
C50X23	23	71,53
C50X24	24	71,53
C50X25	25	71,53
C50X26	26	77,81
C50X27	27	77,81
C50X28	28	77,81
C50X29	29	77,81
C50X30	30	77,81
C50X31	31	95,96
C50X32	32	95,96
C50X33	33	95,96
C50X34	34	95,96
C50X35	35	95,96
C50X36	36	115,48
C50X37	37	115,48
C50X38	38	115,48
C50X39	39	115,48
C50X40	40	115,48
C50X41	41	139,29
C50X42	42	139,29
C50X43	43	139,29
C50X44	44	139,29

	C50X Ø mm	C50X €
C50X45	45	139,29
C50X46	46	163,40
C50X47	47	163,40
C50X48	48	163,40
C50X49	49	163,40
C50X50	50	163,40
C50X51	51	186,74
C50X52	52	186,74
C50X53	53	186,74
C50X54	54	186,74
C50X55	55	186,74
C50X56	56	217,43
C50X57	57	217,43
C50X58	58	217,43
C50X59	59	217,43
C50X60	60	217,43
C50X61	61	263,83
C50X62	62	263,83
C50X63	63	263,83
C50X64	64	263,83
C50X65	65	263,83
C50X66	66	287,66
C50X67	67	287,66
C50X68	68	287,66
C50X69	69	287,66
C50X70	70	287,66
C50X75	75	385,66
C50X80	80	409,74
C50X85	85	433,87
C50X90	90	467,44
C50X100	100	633,77

ADATTATORI SUPPORTO ELETTROMAGNETICO



Tipo Fein



Tipo Weldon

		CXX €
CXX18W	Codolo Fein 18,00mm	38,26
CXXW	Codolo Weldon 19,05mm	38,26

PUNZONE



	DESCRIZIONE	P €
P750CA	Ø 6.35mm x 100mm	17,39

FRESA A TAZZA PER LAVORI PESANTI CON DENTI IN METALLO DURO E CAMBIO POLY-CLICK COMPATIBILE CON CONO MORSE Nº4 E Nº5, CON REFRIGERAZIONE INTERNA

Ref. MBM

MD | 55 HRc | INOX | Al | GHISA

50 mm CAPACITÀ DI TAGLIO



- Utilizzare in ogni caso la refrigerazione interna.
- Non consumare la vita dei denti del tutto, per permettere successive riaffilature.
- L'accostamento della fresa al materiale deve essere progressivo e delicato in modo da evitare la rottura dei denti per urto.



	Ø mm	Z	MBM €
MBM35	35,0	4	64,93*
MBM36	36,0	4	64,93*
MBM38	38,0	4	64,93*
MBM40	40,0	6	76,52*
MBM42	42,0	6	76,52*
MBM43	43,0	6	76,52*
MBM44	44,0	6	76,52*
MBM45	45,0	6	84,39*
MBM48	48,0	6	84,39*
MBM49	49,0	6	84,39*
MBM50	50,0	6	94,60*
MBM51	51,0	6	94,60*
MBM52	52,0	6	94,60*
MBM53	53,0	6	94,60*
MBM54	54,0	6	94,60*
MBM56	56,0	6	104,80*
MBM58	58,0	6	104,80*
MBM60	60,0	6	122,42*
MBM61	61,0	6	122,42*
MBM62	62,0	6	122,42*

	Ø mm	Z	MBM €
MBM65	65,0	6	122,42*
MBM66	66,0	6	132,62*
MBM68	68,0	6	132,62*
MBM70	70,0	6	132,62*
MBM75	75,0	6	142,83*
MBM77	77,0	6	153,03*
MBM78	78,0	6	153,03*
MBM80	80,0	6	153,03*
MBM82	82,0	6	240,47*
MBM85	85,0	6	240,47*
MBM90	90,0	6	262,33*
MBM95	95,0	6	282,21*
MBM110	110,0	6	244,85*
MBM115	115,0	6	268,03*
MBM125	125,0	6	340,84*
MBM130	130,0	6	384,89*
MBM140	140,0	6	459,08*

*Fino ad esaurimento scorte.



GAMBI CODOLO CONICO CON PUNZONE

	DESCRIZIONE	€
500MT4	Alberi Cono Morse 4	192,91*
500MT5	Alberi Cono Morse 5	199,40*

PUNZONE PER LAMIERE SOTTILI FINO A 4 mm

Ref. **PC**

FINO A 4 mm LAMIERE SOTTILI





Modalità d'uso:

- Realizzare un preforo con la nostra punta a svasare Ref. AV30.
- Introdurre la vite Ref. PCM nel foro realizzato.
- Dal lato opposto avvitare la lama di taglio Ref. PCC sulla vite.
- Stringere finchè la lama di taglio Ref. PCC seziona la lamiera contro il cuscinetto Ref. PBC.
- Utilizzare CUT MAGIC per lavorare con la perforatrice Ref. PC.

CUT MAGIC

METRICA VITE	SPESSORE MASSIMO LAMIERA DA PERFORARE			
	ACCIAIO NORMALE	INOX	NON FERROSI	PLASTICHE
M10x1.0	2.00 mm	1.00 mm	4.00 mm	4.00 mm
M12x1.5	3.00 mm	1.50 mm	4.00 mm	4.00 mm
M16x1.5	3.00 mm	1.50 mm	4.00 mm	4.00 mm

	Ø	PC €
PC1270	12,70 PG7	**35,98**
PC1400	14,00	**36,54**
PC1520	15,20 PG9	**36,89**
PC1600	16,00	**36,89**
PC1650	16,50	**37,71**
PC1700	17,00	**38,24**
PC1800	18,00	**38,24**
PC1860	18,60 PG11	**40,34**
PC1900	19,00	**40,34**
PC2000	20,00	**41,28**
PC2040	20,40 PG13,5	**41,28**
PC2100	21,00	**42,38**
PC2200	22,00	**44,07**
PC2250	22,50 PG16	**44,07**
PC2300	23,00	**45,63**
PC2400	24,00	**45,63**
PC2500	25,00	**48,46**
PC2540	25,40	**48,46**

	Ø	PC €
PC2600	26,00	**50,05**
PC2700	27,00	**50,05**
PC2830	28,30 PG21	**50,05**
PC2900	29,00	**53,75**
PC3000	30,00	**53,75**
PC3100	31,00	**53,75**
PC3200	32,00	**54,48**
PC3250	32,50	**61,83**
PC3300	33,00	**61,83**
PC3400	34,00	**61,83**
PC3500	35,00	**61,83**
PC3600	36,00	**66,74**
PC3700	37,00 PG29	**66,74**
PC3800	38,00	**66,74**
PC3900	39,00	**84,70**
PC4000	40,00	**84,70**
PC4050	40,50	**85,15**
PC4100	41,00	**85,15**

	Ø	PC €
PC4200	42,00	**92,55**
PC4300	43,00	**92,55**
PC4400	44,00	**95,34**
PC4500	45,00	**100,65**
PC4600	46,00	**100,65**
PC4700	47,00 PG36	**102,30**
PC4800	48,00	**110,39**
PC4900	49,00	**110,39**
PC5000	50,00	**113,79**
PC5050	50,50	**121,05**
PC5100	51,00	**121,05**
PC5200	52,00	**124,58**
PC5300	53,00	**124,58**
PC5400	54,00 PG42	**131,07**
PC5500	55,00	**131,07**
PC6000	60,00 PG48	**162,12**
PC6350	63,50	**186,34**

VITE DI TRAZIONE E RONDELLA



	DESCRIZIONE	PCM €
PCM10	(Filettatura M10 x 1,00) Punzoni da Ø 12,70 - 25,40 mm	**5,11**
PCM12	(Filettatura M12 x 1,50) Punzoni da Ø 26 - 41 mm	**5,11**
PCM16	(Filettatura M16 x 1,50) Punzoni da Ø 42 - 63,50 mm	**5,82**

CUSCINETTO A SFERA



PBC

Consulti il prezzo per ogni diametro

LAMA DI TAGLIO



PCC

Consulti il prezzo per ogni diametro

CONDIZIONI DI TAGLIO PER FRESE E SEGHE A TAZZA IN HSS E HHSCo

TABELLA DI AVANZAMENTO

mm/GIRO		50 HRc	INOX	GHISA	Al
CB - COB - CBR	0,053	-	0,05	0,075	0,12
CBC- CCF	0,063	-	0,055	0,085	0,15

SCELTA DELLE R.P.M. PER FRESE E SEGHE A TAZZA CB - COB - CBR - CBC - CCF

Vc (m/min)	10	15	20	25	30	35	40	50	60	70	80	90	100
100	3183	2122	1952	1273	1061	909	796	637	531	455	398	354	318
95	3024	2016	1512	1512	1008	864	756	605	504	432	378	336	302
90	2865	1910	1432	1432	955	819	716	573	477	409	358	318	286
85	2706	1804	1353	1353	902	773	676	541	451	387	338	301	271
80	2547	1698	1273	1276	849	728	637	509	424	364	318	283	255
75	2387	1592	1194	1194	796	682	597	477	398	341	298	265	239
70	2228	1485	1114	1114	743	637	557	446	371	318	279	248	223
65	2069	1379	1035	1035	690	591	517	414	345	296	259	230	207
60	1910	1273	955	922	637	546	477	382	318	273	239	212	191
55	1751	1167	875	875	584	500	438	350	292	250	219	195	175
50	1592	1061	796	796	531	455	398	318	265	227	199	177	159
45	1432	955	716	716	477	409	658	286	239	205	179	159	143
40	1273	849	637	637	424	364	618	255	212	192	159	141	127
35	1114	743	557	557	371	318	279	223	186	159	139	124	111
30	955	637	477	477	318	273	239	191	159	136	119	106	95
25	796	531	398	398	265	227	199	159	133	114	99	88	80
20	637	424	318	318	212	182	159	127	106	91	80	71	64
15	477	318	239	239	159	136	119	95	80	68	60	53	48
10	318	212	159	159	106	91	80	64	53	45	40	35	32

SCELTA DIAMETRO (Ø mm)

CONDIZIONI DI TAGLIO PER FRESE A TAZZA CON DENTI IN METALLO DURO

TABELLA DI AVANZAMENTO

mm/GIRO		50 HRc	INOX	GHISA	Al	Ni
LEGGERE: CX - CXL - X - XT	0,035	0,025	0,02	0,040	0,075	0,020
C50X - CXX - MBM - CBMD - CP	0,10	0,075	0,095	0,15	0,22	0,07

SCELTA DELLE R.P.M. PER FRESE A TAZZA CX - CXL - X - XT - C50X - CXX - MBM - CBMD - CP

Vc (m/min)	10	15	20	25	30	35	40	50	60	70	80	90	100
100	3183	2122	1952	1273	1061	909	796	637	531	455	398	354	318
95	3024	2016	1512	1512	1008	864	756	605	504	432	378	336	302
90	2865	1910	1432	1432	955	819	716	573	477	409	358	318	286
85	2706	1804	1353	1353	902	773	676	541	451	387	338	301	271
80	2547	1698	1273	1276	849	728	637	509	424	364	318	283	255
75	2387	1592	1194	1194	796	682	597	477	398	341	298	265	239
70	2228	1485	1114	1114	743	637	557	446	371	318	279	248	223
65	2069	1379	1035	1035	690	591	517	414	345	296	259	230	207
60	1910	1273	955	922	637	546	477	382	318	273	239	212	191
55	1751	1167	875	875	584	500	438	350	292	250	219	195	175
50	1592	1061	796	796	531	455	398	318	265	227	199	177	159
45	1432	955	716	716	477	409	658	286	239	205	179	159	143
40	1273	849	637	637	424	364	618	255	212	192	159	141	127
35	1114	743	557	557	371	318	279	223	186	159	139	124	111
30	955	637	477	477	318	273	239	191	159	136	119	106	95
25	796	531	398	398	265	227	199	159	133	114	99	88	80
20	637	424	318	318	212	182	159	127	106	91	80	71	64
15	477	318	239	239	159	136	119	95	80	68	60	53	48
10	318	212	159	159	106	91	80	64	53	45	40	35	32

SCELTA DIAMETRO (Ø mm)

BLUE-MASTER® by celesa

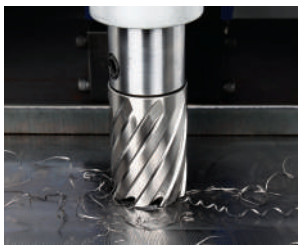


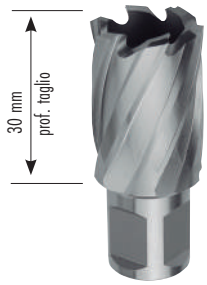
FRESE A CAROTARE

FRESE A CAROTARE PER MACCHINE A SUPPORTO MAGNETICO SERIE CORTA

HSS — 75 Kg/mm² — Ref. 250R — **30 mm CAPACITÀ DI TAGLIO**

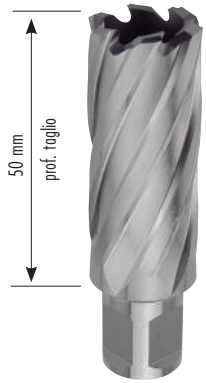
VALIDE PER MACCHINE TIPO:
Rota Broach - Alfra Rota Best - Magnetor - Slugger - Dr. Bemder - Bux - Hougen

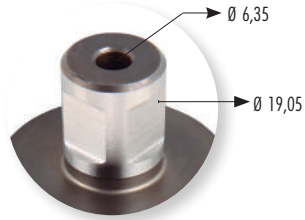




	250R Ø mm	250R €
250R12	12	25,63
250R13	13	25,99
250R14	14	26,21
250R15	15	26,14
250R16	16	26,40
250R17	17	28,05
250R18	18	28,13
250R19	19	28,18
250R20	20	29,40
250R21	21	31,37
250R22	22	32,53
250R23	23	33,32
250R24	24	34,63
250R25	25	35,76
250R26	26	37,04
250R27	27	39,75
250R28	28	40,92
250R29	29	43,57
250R30	30	43,43
250R31	31	47,29
250R32	32	47,51
250R33	33	54,96
250R34	34	58,38
250R35	35	58,75
250R36	36	62,35
250R37	37	63,48
250R38	38	64,11
250R39	39	64,69
250R40	40	68,73
250R41	41	69,97
250R42	42	74,62
250R43	43	80,61
250R44	44	83,17
250R45	45	84,12
250R46	46	86,05
250R47	47	87,65
250R48	48	91,17
250R49	49	91,82
250R50	50	97,25

HSS — 75 Kg/mm² — Ref. 500R — **50 mm CAPACITÀ DI TAGLIO**





	500R Ø mm	500R €
500R12	12	38,07
500R13	13	38,07
500R14	14	34,22
500R15	15	36,67
500R16	16	38,59
500R17	17	38,82
500R18	18	39,19
500R19	19	40,00
500R20	20	41,77
500R21	21	42,79
500R22	22	44,00
500R23	23	47,06
500R24	24	48,45
500R25	25	61,20
500R26	26	63,90
500R27	27	67,82
500R28	28	70,96
500R29	29	75,52
500R30	30	76,80
500R31	31	82,72
500R32	32	84,21
500R33	33	90,31
500R34	34	94,31
500R35	35	95,91
500R36	36	101,09
500R37	37	103,62
500R38	38	105,26
500R39	39	113,05
500R40	40	115,92
500R41	41	123,88
500R42	42	126,99
500R43	43	128,67
500R44	44	130,26
500R45	45	135,89
500R46	46	135,86
500R47	47	148,70
500R48	48	152,42
500R49	49	151,44
500R50	50	154,73

PUNZONI Ø 6,35 mm PER FRESE A CAROTARE

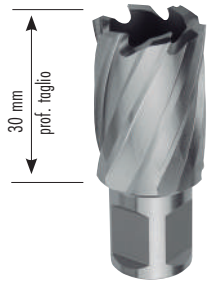


	DESCRIZIONE	L mm	€
P250CA	Punzone normale per frese Serie250R/C/T	71	12,38
P250CAA	Utilizzare con adattatore per FEIN o NITTO 250R/C/T	101	15,75
P500CA	Punzone normale per frese Serie500R/C/T	92	14,25

FRESE A CAROTARE PER MACCHINE A SUPPORTO MAGNETICO SERIE CORTA

HSSCo 8% — 110 Kg/mm² — Ref. 250C — **30 mm CAPACITÀ DI TAGLIO**

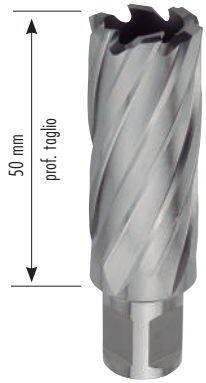
VALIDE PER MACCHINE TIPO:
Rota Broach - Alfra Rota Best - Magnetor - Slugger - Dr. Bemder - Bux - Hougen

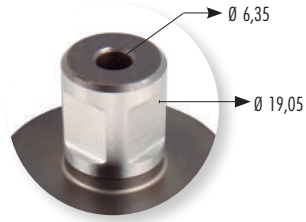


	Ø mm	250C €
250C12	12	44,50
250C13	13	44,50
250C14	14	44,50
250C15	15	47,84
250C16	16	51,26
250C17	17	51,29
250C18	18	53,65
250C19	19	59,83
250C20	20	63,68
250C21	21	69,69
250C22	22	71,69
250C23	23	75,38
250C24	24	78,07
250C25	25	81,41
250C26	26	83,75
250C27	27	86,43
250C28	28	89,46
250C29	29	91,22
250C30	30	91,63
250C31	31	99,77
250C32	32	101,29
250C33	33	103,31
250C34	34	105,72
250C35	35	112,84
250C36	36	113,34
250C37	37	114,42
250C38	38	120,47
250C39	39	120,64
250C40	40	125,79
250C41	41	175,33
250C42	42	180,09
250C43	43	187,85
250C44	44	193,81
250C45	45	200,95
250C46	46	207,53
250C47	47	213,49
250C48	48	218,27
250C49	49	247,58
250C50	50	225,43
250C51	51	235,19
250C52	52	242,10
250C53	53	250,75
250C54	54	273,23
250C55	55	295,71
250C56	56	296,10

	Ø mm	250C €
250C57	57	297,88
250C58	58	302,09
250C59	59	311,38
250C60	60	313,76
250C61	61	336,49
250C62	62	340,14
250C63	63	343,75
250C64	64	361,97
250C65	65	373,60
250C66	66	544,99
250C67	67	552,27
250C68	68	563,36
250C69	69	576,46
250C70	70	591,51
250C71	71	618,11
250C72	72	622,77
250C73	73	628,45
250C74	74	639,87
250C75	75	629,34
250C76	76	665,38
250C77	77	667,94
250C78	78	670,68
250C79	79	679,54
250C80	80	681,46
250C81	81	695,73
250C82	82	707,80
250C83	83	722,14
250C84	84	737,51
250C85	85	739,88
250C86	86	744,63
250C87	87	749,03
250C88	88	758,26
250C89	89	764,37
250C90	90	775,63
250C91	91	784,12
250C92	92	791,34
250C93	93	799,30
250C94	94	810,17
250C95	95	817,85
250C96	96	825,53
250C97	97	832,93
250C98	98	844,18
250C99	99	855,52
250C100	100	870,23

HSSCo 8% — 110 Kg/mm² — Ref. 500C — **50 mm CAPACITÀ DI TAGLIO**





	Ø mm	500C €
500C12	12	61,27
500C13	13	57,80
500C14	14	57,80
500C15	15	63,23
500C16	16	72,36
500C17	17	72,91
500C18	18	80,19
500C19	19	88,79
500C20	20	94,24
500C21	21	104,18
500C22	22	106,53
500C23	23	110,21
500C24	24	112,57
500C25	25	117,25
500C26	26	122,10
500C27	27	126,96
500C28	28	123,44
500C29	29	128,12
500C30	30	131,88
500C31	31	138,83
500C32	32	139,39
500C33	33	141,72
500C34	34	143,31
500C35	35	146,10
500C36	36	147,55
500C37	37	152,78
500C38	38	153,88
500C39	39	156,51
500C40	40	161,54
500C41	41	193,19
500C42	42	199,77
500C43	43	206,93
500C44	44	214,08
500C45	45	219,45
500C46	46	227,20
500C47	47	232,57
500C48	48	239,73
500C49	49	304,20
500C50	50	304,90
500C51	51	314,73
500C52	52	319,92
500C53	53	323,57
500C54	54	328,78
500C55	55	330,41
500C56	56	339,33

	Ø mm	500C €
500C57	57	362,64
500C58	58	400,09
500C59	59	412,43
500C60	60	422,91
500C61	61	432,76
500C62	62	438,80
500C63	63	455,59
500C64	64	463,10
500C65	65	475,36
500C66	66	584,60
500C67	67	602,55
500C68	68	611,22
500C69	69	619,96
500C70	70	629,06
500C71	71	660,28
500C72	72	664,03
500C73	73	668,33
500C74	74	679,20
500C75	75	668,21
500C76	76	709,66
500C77	77	715,47
500C78	78	723,24
500C79	79	729,61
500C80	80	731,45
500C81	81	741,69
500C82	82	749,01
500C83	83	760,34
500C84	84	769,05
500C85	85	771,09
500C86	86	795,48
500C87	87	807,19
500C88	88	811,04
500C89	89	814,97
500C90	90	822,74
500C91	91	830,81
500C92	92	842,24
500C93	93	849,26
500C94	94	859,75
500C95	95	871,74
500C96	96	878,97
500C97	97	887,96
500C98	98	898,07
500C99	99	919,15
500C100	100	928,80

PUNZONI Ø 6,35 mm PER FRESE A CAROTARE



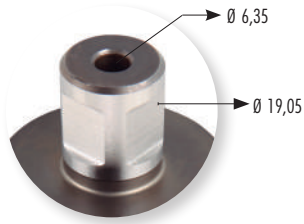
	DESCRIZIONE	L mm	€
P250CA	Punzone normale per frese Serie250R/C/T	71	12,38
P250CAA	Utilizzare con adattatore per FEIN o NITTO 250R/C/T	101	15,75
P500CA	Punzone normale per frese Serie500R/C/T	92	14,25

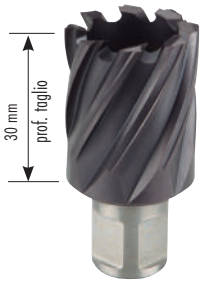
FRESE A CAROTARE PER MACCHINE A SUPPORTO MAGNETICO RIVESTITE SERIE CORTA

HSSCo 8% | 110 Kg/mm² | TiAlN | Ref. 250T | 30 mm CAPACITÀ DI TAGLIO

HSSCo 8% | 110 Kg/mm² | TiAlN | Ref. 500T | 50 mm CAPACITÀ DI TAGLIO

VALIDE PER MACCHINE TIPO:
Rota Broach - Alfra Rota Best - Magnetor - Slugger - Dr. Bemder - Bux - Hougen







	250T			250T	
	Ø mm	€		Ø mm	€
250T12	12	**57,62**	250T36	36	**153,43**
250T13	13	**57,62**	250T37	37	**156,04**
250T14	14	**57,62**	250T38	38	**163,25**
250T15	15	**62,96**	250T39	39	**163,72**
250T16	16	**66,68**	250T40	40	**165,72**
250T17	17	**69,46**	250T41	41	**227,07**
250T18	18	**72,86**	250T42	42	**237,75**
250T19	19	**80,24**	250T43	43	**246,66**
250T20	20	**84,29**	250T44	44	**253,52**
250T21	21	**94,09**	250T45	45	**261,75**
250T22	22	**98,16**	250T46	46	**269,31**
250T23	23	**101,69**	250T47	47	**276,15**
250T24	24	**105,39**	250T48	48	**281,65**
250T25	25	**109,46**	250T49	49	**288,99**
250T26	26	**113,55**	250T50	50	**289,88**
250T27	27	**117,44**	250T51	51	**301,11**
250T28	28	**121,14**	250T52	52	**309,06**
250T29	29	**123,79**	250T53	53	**319,01**
250T30	30	**124,70**	250T54	54	**344,86**
250T31	31	**136,20**	250T55	55	**375,52**
250T32	32	**138,38**	250T56	56	**403,35**
250T33	33	**142,43**	250T57	57	**429,20**
250T34	34	**152,87**	250T58	58	**469,70**
250T35	35	**153,02**	250T59	59	**483,05**
			250T60	60	**486,48**

	500T			500T	
	Ø mm	€		Ø mm	€
500T12	12	**76,95**	500T36	36	**198,08**
500T13	13	**76,95**	500T37	37	**199,39**
500T14	14	**76,95**	500T38	38	**199,74**
500T15	15	**87,70**	500T39	39	**202,07**
500T16	16	**99,36**	500T40	40	**202,53**
500T17	17	**99,59**	500T41	41	**290,04**
500T18	18	**108,23**	500T42	42	**297,59**
500T19	19	**119,83**	500T43	43	**308,23**
500T20	20	**127,31**	500T44	44	**317,56**
500T21	21	**142,44**	500T45	45	**326,15**
500T22	22	**147,06**	500T46	46	**336,53**
500T23	23	**152,07**	500T47	47	**345,09**
500T24	24	**156,89**	500T48	48	**353,36**
500T25	25	**161,90**	500T49	49	**430,32**
500T26	26	**166,50**	500T50	50	**365,10**
500T27	27	**174,11**	500T51	51	**444,85**
500T28	28	**181,69**	500T52	52	**450,50**
500T29	29	**188,87**	500T53	53	**459,68**
500T30	30	**192,24**	500T54	54	**471,01**
500T31	31	**193,70**	500T55	55	**480,23**
500T32	32	**194,27**	500T56	56	**507,38**
500T33	33	**194,87**	500T57	57	**552,45**
500T34	34	**195,74**	500T58	58	**601,61**
500T35	35	**196,79**	500T59	59	**618,70**
			500T60	60	**633,38**

PUNZONI Ø 6,35 mm PER FRESE A CAROTARE



	DESCRIZIONE	L mm	€
P250CA	Punzone normale per frese Serie250R/C/T	71	**12,38**
P250CAA	Utilizzare con adattatore per FEIN o NITTO 250R/C/T	101	**15,75**
P500CA	Punzone normale per frese Serie500R/C/T	92	**14,25**

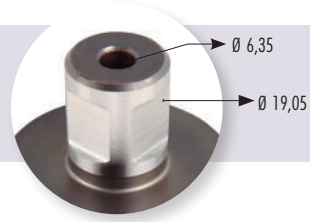
FRESE A CAROTARE PER MACCHINE A SUPPORTO MAGNETICO SERIE LUNGA

HSSCo 8%

110 Kg/mm²

Ref. 750C — 75 mm CAPACITÀ DI TAGLIO

Ref. 1000C — 100 mm CAPACITÀ DI TAGLIO



VALIDE PER MACCHINE TIPO:
Rota Broach - Alfra Rota Best - Magnetor - Slugger - Dr. Bemder - Bux - Hougen



	750C Ø mm	750C €
750C18	18	114,56
750C19	19	119,32
750C20	20	125,29
750C21	21	129,98
750C22	22	137,92
750C23	23	143,43
750C24	24	148,56
750C25	25	151,62
750C26	26	156,05
750C27	27	160,46
750C28	28	167,22
750C29	29	174,44
750C30	30	183,20
750C31	31	186,17
750C32	32	192,39
750C33	33	205,56
750C34	34	209,62
750C35	35	213,41
750C36	36	219,09
750C37	37	225,50
750C38	38	232,28
750C39	39	247,78
750C40	40	258,78
750C41	41	261,21
750C42	42	281,14
750C43	43	295,94
750C44	44	311,10
750C45	45	326,44
750C46	46	351,59
750C47	47	365,58
750C48	48	381,36
750C49	49	397,96

	750C Ø mm	750C €
750C50	50	413,39
750C51	51	431,24
750C52	52	435,22
750C53	53	439,10
750C54	54	444,41
750C55	55	451,47
750C56	56	460,01
750C57	57	464,44
750C58	58	475,00
750C59	59	486,36
750C60	60	510,89
750C61	61	531,09
750C62	62	546,34
750C63	63	556,71
750C64	64	570,96
750C65	65	585,22
750C66	66	731,15
750C67	67	748,20
750C68	68	764,09
750C69	69	776,43
750C70	70	786,53
750C71	71	797,71
750C72	72	810,77
750C73	73	823,12
750C74	74	834,03
750C75	75	843,37
750C76	76	853,23
750C77	77	860,87
750C78	78	869,52
750C79	79	887,37
750C80	80	911,37
750C81	81	938,54
750C82	82	947,92
750C83	83	975,86
750C84	84	996,86
750C85	85	1.021,52
750C86	86	1.052,10
750C87	87	1.082,55
750C88	88	1.100,50
750C89	89	1.126,63
750C90	90	1.151,23
750C91	91	1.189,71
750C92	92	1.224,40
750C93	93	1.250,45
750C94	94	1.289,37
750C95	95	1.326,05
750C96	96	1.346,96
750C97	97	1.374,98
750C98	98	1.402,19
750C99	99	1.425,08
750C100	100	1.449,87



	1000C Ø mm	1000C €
1000C18	18	167,53
1000C19	19	176,09
1000C20	20	184,67
1000C21	21	195,16
1000C22	22	203,55
1000C23	23	209,21
1000C24	24	219,27
1000C25	25	220,94
1000C26	26	222,51
1000C27	27	225,00
1000C28	28	235,41
1000C29	29	244,98
1000C30	30	256,87
1000C31	31	261,20
1000C32	32	267,95
1000C33	33	286,40
1000C34	34	290,48
1000C35	35	295,21
1000C36	36	303,44
1000C37	37	313,68
1000C38	38	321,26
1000C39	39	329,08
1000C40	40	339,31
1000C41	41	351,71
1000C42	42	378,65
1000C43	43	398,20
1000C44	44	418,08
1000C45	45	435,39
1000C46	46	453,93
1000C47	47	477,56
1000C48	48	501,01
1000C49	49	518,82

	1000C Ø mm	1000C €
1000C50	50	526,38
1000C51	51	532,79
1000C52	52	535,54
1000C53	53	537,70
1000C54	54	540,95
1000C55	55	546,75
1000C56	56	552,83
1000C57	57	556,84
1000C58	58	570,55
1000C59	59	583,12
1000C60	60	607,41
1000C61	61	618,14
1000C62	62	634,86
1000C63	63	645,17
1000C64	64	662,22
1000C65	65	672,37
1000C66	66	779,01
1000C67	67	795,57
1000C68	68	810,38
1000C69	69	827,68
1000C70	70	834,16
1000C71	71	850,30
1000C72	72	862,45
1000C73	73	873,77
1000C74	74	883,58
1000C75	75	894,14
1000C76	76	905,72
1000C77	77	910,28
1000C78	78	914,94
1000C79	79	934,66
1000C80	80	1.052,46
1000C81	81	1.076,89
1000C82	82	1.095,74
1000C83	83	1.117,52
1000C84	84	1.143,78
1000C85	85	1.170,14
1000C86	86	1.215,34
1000C87	87	1.242,13
1000C88	88	1.268,85
1000C89	89	1.292,83
1000C90	90	1.327,44
1000C91	91	1.368,06
1000C92	92	1.404,92
1000C93	93	1.437,22
1000C94	94	1.485,81
1000C95	95	1.521,50
1000C96	96	1.547,02
1000C97	97	1.577,67
1000C98	98	1.605,31
1000C99	99	1.630,94
1000C100	100	1.670,55

PUNZONI Ø 6,35 mm PER FRESE A CAROTARE



	DESCRIZIONE	L mm	€
P750CA	Punzone normale per frese Serie750C	123	17,39
P1000CA	Punzone normale per frese Serie1000C	147	20,51
P1000CAA	Utilizzare con adattatore per FEIN o Nitto 1000C	177	17,18

FRESE A CAROTARE PER MACCHINE A SUPPORTO MAGNETICO SERIE EXTRA LUNGA

HSS 75 Kg/mm² Ref. 1500C — 150 mm CAPACITÀ DI TAGLIO



	1500C	
	Ø mm	€
1500C22	22	516,10
1500C24	24	555,97
1500C26	26	564,19
1500C28	28	596,88
1500C30	30	651,28
1500C32	32	741,25
1500C34	34	803,62
1500C36	36	839,51
1500C38	38	888,78
1500C40	40	938,71
1500C42	42	1.047,56
1500C44	44	1.156,66
1500C46	46	1.255,83
1500C48	48	1.386,08
1500C50	50	1.456,27
1500C52	52	1.714,42
1500C54	54	1.835,94
1500C55	55	2.017,10

HSS 75 Kg/mm² Ref. 2000C — 200 mm CAPACITÀ DI TAGLIO



	2000C	
	Ø mm	€
2000C26	26	784,22
2000C28	28	829,67
2000C30	30	905,29
2000C32	32	1.030,34
2000C34	34	1.117,02
2000C36	36	1.247,27
2000C38	38	1.320,44
2000C40	40	1.394,63
2000C42	42	1.556,34
2000C44	44	1.718,41
2000C46	46	1.865,76
2000C48	48	2.111,55
2000C50	50	2.218,48
2000C52	52	2.413,02
2000C54	54	2.487,25

PUNZONI Ø 8 mm PER FRESE A CAROTARE



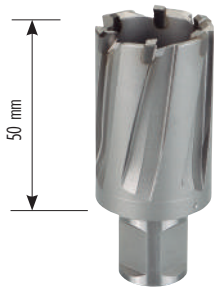
	DESCRIZIONE	L mm	€
P1500CA	Punzone normale per frese Serie 1500C	220	34,73
P2000CA	Punzone normale per frese Serie 2000C	248	43,99
P2500CA	Punzone EXTRA lungo per l'uso di frese con estensioni	310	76,35

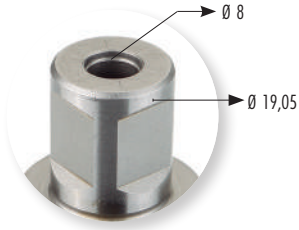
FRESE A CAROTARE PER MACCHINE A SUPPORTO MAGNETICO CON DENTI IN METALLO DURO

35 mm CAPACITÀ DI TAGLIO

50 mm CAPACITÀ DI TAGLIO

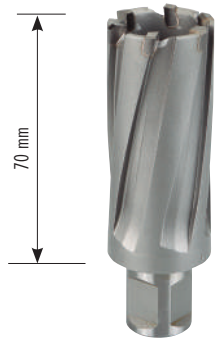
MD | INOX | Al | Cu - Ni - La | GHISA

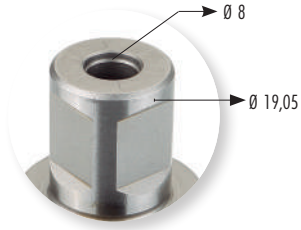




ATTACCO DOPPIO WELDON

Ref. 350A





ATTACCO DOPPIO WELDON

Ref. 500A

35 mm PROFONDITÀ DI TAGLIO

	350A	
	Ø mm	€
350A12	12,0	**96,78**
350A13	13,0	**96,78**
350A14	14,0	**96,78**
350A15	15,0	**96,78**
350A16	16,0	**96,78**
350A17	17,0	**96,78**
350A17,5*	17,5	**62,73**
350A18	18,0	**96,78**
350A19	19,0	**96,78**
350A20	20,0	**96,78**
350A21	21,0	**96,78**
350A21,5*	21,5	**67,31**
350A22	22,0	**103,85**
350A22,5*	22,5	**67,31**
350A23	23,0	**103,85**
350A23,5*	23,5	**67,31**
350A24	24,0	**103,85**
350A24,5*	24,5	**67,31**
350A25	25,0	**103,85**

	350A	
	Ø mm	€
350A26	26,0	**103,85**
350A26,5 *	26,5	**67,31**
350A27	27,0	**103,85**
350A28	28,0	**103,85**
350A29	29,0	**103,85**
350A30	30,0	**103,85**
350A31	31,0	**115,66**
350A32	32,0	**115,66**
350A33	33,0	**115,66**
350A34	34,0	**115,66**
350A35	35,0	**115,66**
350A36	36,0	**115,66**
350A37	37,0	**115,66**
350A38	38,0	**115,66**
350A39	39,0	**140,45**
350A40	40,0	**140,45**
350A41	41,0	**140,45**
350A42	42,0	**140,45**
350A43	43,0	**140,45**
350A44	44,0	**140,45**
350A45	45,0	**140,45**
350A46	46,0	**165,81**
350A47	47,0	**165,81**
350A48	48,0	**165,81**
350A49	49,0	**165,81**
350A50	50,0	**165,81**
350A51	51,0	**185,32**
350A52	52,0	**185,32**



- L'accostamento della fresa al materiale deve essere delicato, senza urti o impatti bruschi.
- Lubrificare con CUT-MAGIC.

50 mm PROFONDITÀ DI TAGLIO

	500A	
	Ø mm	€
500A14	14,0	**113,27**
500A15	15,0	**113,27**
500A16	16,0	**113,27**
500A17	17,0	**113,27**
500A17,5*	17,5	**73,42**
500A18	18,0	**113,27**
500A19	19,0	**113,27**
500A20	20,0	**113,27**
500A21	21,0	**113,27**
500A21,5*	21,5	**78,55**
500A22	22,0	**121,19**
500A22,5*	22,5	**78,55**
500A23	23,0	**121,19**
500A23,5*	23,5	**78,55**
500A24	24,0	**121,19**
500A24,5*	24,5	**78,55**
500A25	25,0	**121,19**
500A26	26,0	**121,19**
500A26,5*	26,5	**78,55**
500A27	27,0	**121,19**
500A28	28,0	**121,19**
500A29	29,0	**121,19**
500A30	30,0	**121,19**
500A31	31,0	**134,36**
500A32	32,0	**134,36**
500A33	33,0	**134,36**
500A34	34,0	**134,36**
500A35	35,0	**134,36**
500A36	36,0	**154,10**
500A37	37,0	**154,10**
500A38	38,0	**154,10**
500A39	39,0	**154,10**

	500A	
	Ø mm	€
500A40	40,0	**154,10**
500A41	41,0	**180,45**
500A42	42,0	**180,45**
500A43	43,0	**180,45**
500A44	44,0	**180,45**
500A45	45,0	**180,45**
500A46	46,0	**200,21**
500A47	47,0	**200,21**
500A48	48,0	**200,21**
500A49	49,0	**200,21**
500A50	50,0	**200,21**
500A51	51,0	**221,27**
500A52	52,0	**221,27**
500A53	53,0	**221,27**
500A54	54,0	**221,27**
500A55	55,0	**221,27**
500A56	56,0	**283,63**
500A57	57,0	**283,63**
500A58	58,0	**283,63**
500A59	59,0	**283,63**
500A60	60,0	**283,63**
500A61	61,0	**328,41**
500A62	62,0	**328,41**
500A63	63,0	**328,41**
500A64	64,0	**328,41**
500A65	65,0	**328,41**
Codolo 32 mm 500A66	66,0	**348,30**
500A67	67,0	**348,30**
500A68	68,0	**348,30**
500A69	69,0	**348,30**
500A70	70,0	**348,30**

*Fino ad esaurimento scorte

PUNZONI PER FRESE A CAROTARE DENTI IN METALLO DURO



Ref. P350AA



Ref. P350AA-1

	DESCRIZIONE	Ø x L mm	€
P350AA	Frese a carotare 350A Ø 12 - 15 mm	Ø 5 x 91	**19,80**
P350AA-1	Frese a carotare 350A Ø 16 - 52 mm	Ø 8 x 91	**20,26**
P500A	Frese a carotare 500A Ø 14 - 16 mm	Ø 5 x 112	**21,61**
P500AA	Frese a carotare 500A Ø 17 - 70 mm	Ø 8 x 112	**22,73**

FRESE A CAROTARE PER MACCHINE A SUPPORTO MAGNETICO CON DENTI IN METALLO DURO

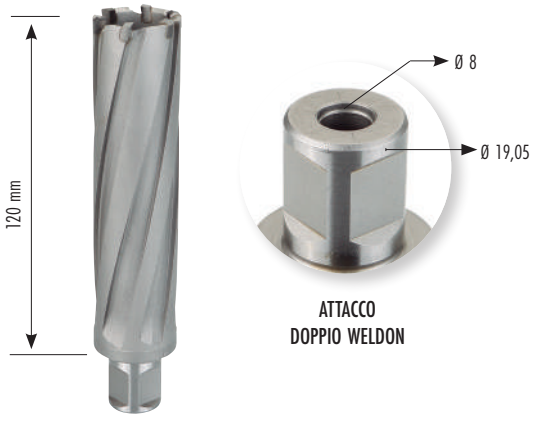
75 mm CAPACITÀ DI TAGLIO

100 mm CAPACITÀ DI TAGLIO

MD | INOX | Al | Cu - Ni - La | GHISA



Ref. 750A



Ref. 1000A

75 mm PROFONDITÀ DI TAGLIO

	750A			750A	
	Ø mm	€		Ø mm	€
750A17	17	173,69	750A52	52	384,52
750A18	18	173,69	750A53	53	384,52
750A19	19	173,69	750A54	54	384,52
750A20	20	173,69	750A55	55	384,52
750A21	21	173,69	750A56	56	434,89
750A22	22	185,81	750A57	57	434,89
750A23	23	185,81	750A58	58	434,89
750A24	24	185,81	750A59	59	434,89
750A25	25	185,81	750A60	60	434,89
750A26	26	185,81	750A61	61	503,55
750A27	27	185,81	750A62	62	503,55
750A28	28	185,81	750A63	63	503,55
750A29	29	185,81	750A64	64	503,55
750A30	30	185,81	750A65	65	503,55
750A31	31	206,02	750A66	66	503,55
750A32	32	206,02	750A67	67	503,55
750A33	33	206,02	750A68	68	503,55
750A34	34	206,02	750A69	69	503,55
750A35	35	206,02	750A70	70	503,55
750A36	36	236,29	750A75	75	623,21
750A37	37	236,29	750A80	80	658,52
750A38	38	236,29	750A85	85	714,41
750A39	39	236,29	750A90	90	784,59
750A40	40	236,29	750A95	95	819,47
750A41	41	276,70	750A100	100	896,37
750A42	42	276,70	750A105	105	1.232,56
750A43	43	276,70	750A110	110	1.576,36
750A44	44	276,70	750A115	115	1.589,76
750A45	45	276,70	750A120	120	1.589,76
750A46	46	319,26	750A125	125	2.045,30
750A47	47	319,26	750A130	130	2.119,79
750A48	48	319,26	750A135	135	2.231,11
750A49	49	319,26	750A140	140	2.231,11
750A50	50	347,91	750A145	145	2.824,38
750A51	51	384,52	750A150	150	2.824,38

Codolo 32 mm

100 mm PROFONDITÀ DI TAGLIO

	1000A			1000A	
	Ø mm	€		Ø mm	€
1000A18	18	195,94	1000A51	51	486,43
1000A19	19	195,94	1000A52	52	486,43
1000A20	20	195,94	1000A53	53	486,43
1000A21	21	195,94	1000A54	54	486,43
1000A22	22	201,41	1000A55	55	486,43
1000A23	23	201,41	1000A56	56	550,12
1000A24	24	201,41	1000A57	57	550,12
1000A25	25	213,68	1000A58	58	550,12
1000A26	26	213,68	1000A59	59	550,12
1000A27	27	213,68	1000A60	60	550,12
1000A28	28	213,68	1000A61	61	636,99
1000A29	29	213,68	1000A62	62	636,99
1000A30	30	213,68	1000A63	63	636,99
1000A31	31	236,92	1000A64	64	636,99
1000A32	32	236,92	1000A65	65	636,99
1000A33	33	236,92	1000A66	66	636,99
1000A34	34	236,92	1000A67	67	777,54
1000A35	35	236,92	1000A68	68	777,54
1000A36	36	271,73	1000A69	69	777,54
1000A37	37	271,73	1000A70	70	777,54
1000A38	38	271,73	1000A75	75	777,54
1000A39	39	271,73	1000A80	80	797,22
1000A40	40	271,73	1000A85	85	902,16
1000A41	41	318,20	1000A90	90	945,54
1000A42	42	318,20	1000A95	95	988,92
1000A43	43	350,03	1000A100	100	1.044,54
1000A44	44	350,03	1000A105	105	1.470,96
1000A45	45	350,03	1000A110	110	1.470,96
1000A46	46	388,34	1000A115	115	1.965,24
1000A47	47	388,34	1000A120	120	1.965,24
1000A48	48	388,34	1000A125	125	2.519,59
1000A49	49	388,34	1000A130	130	2.519,59
1000A50	50	460,12	1000A135	135	3.151,80
			1000A140	140	3.151,80
			1000A145	145	4.233,43
			1000A150	150	4.233,43

Codolo 32 mm

PUNZONI PER FRESE A CAROTARE DENTI IN METALLO DURO



	DESCRIZIONE	Ø x L mm	€
P750AA	Frese a carotare 750A Ø 17 - 70 mm	Ø8x140	33,00
P750AA-1	Frese a carotare 750A Ø 75 - 150 mm	Ø8x160	37,95
P1000AA	Frese a carotare 1000A Ø 25 - 70 mm	Ø8x160	44,73
P1000AA-1	Frese a carotare 1000A Ø 75 - 150 mm	Ø8x190	51,42

FRESE A CAROTARE SPECIALE PER MACCHINE A SUPPORTO MAGNETICO Ø CODOLO DI 19,05 mm SPECIALE PER ROTAIE DELLE FERROVIE, HARDOX...



- Denti in metallo duro.
- Per materiali estremamente duri.
- Possibilità di lavorare su trapani, fresatrici e torni.
- Possibilità di lavorare con Cono Morse ad attacco rapido.





Ref. MB250AT
Ref. MB500AT

HSSCo 8% | TiAlN | HARDOX 450 | HARDOX 500

Ref. MB350ST
Ref. MB500ST

MD | HARDOX 450 | HARDOX 500 | HARDOX 600

25 mm CAPACITÀ DI TAGLIO



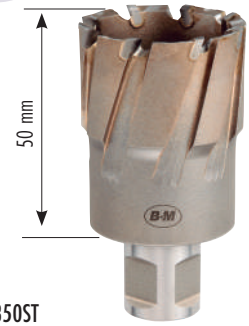
Ref. MB250AT

50 mm CAPACITÀ DI TAGLIO



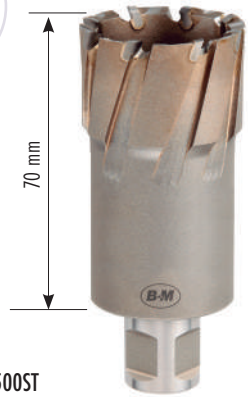
Ref. MB500AT

35 mm CAPACITÀ DI TAGLIO



Ref. MB350ST

50 mm CAPACITÀ DI TAGLIO



Ref. MB500ST

25 mm PROF. DI TAGLIO

MB250AT

	Ø mm	€
MB250AT16	16	143,95
MB250AT18	18	148,09
MB250AT20	20	152,23
MB250AT22	22	159,02
MB250AT24	24	164,71
MB250AT26	26	170,00
MB250AT28	28	175,47
MB250AT30	30	181,01
MB250AT32	32	212,53

50 mm PROF. DI TAGLIO

MB500AT

	Ø mm	€
MB500AT16	16	179,60
MB500AT18	18	189,21
MB500AT20	20	198,80
MB500AT22	22	207,07
MB500AT24	24	213,85
MB500AT26	26	220,71
MB500AT28	28	231,72
MB500AT30	30	245,39
MB500AT32	32	270,73

35 mm PROF. DI TAGLIO

MB350ST

	Ø mm	€
MB350ST18	18	154,94
MB350ST19	19	154,94
MB350ST20	20	154,94
MB350ST21	21	154,94
MB350ST22	22	166,26
MB350ST23	23	166,26
MB350ST24	24	166,26
MB350ST25	25	166,26
MB350ST26	26	166,26
MB350ST27	27	166,26
MB350ST28	28	166,26
MB350ST29	29	166,26
MB350ST30	30	166,26
MB350ST31	31	185,17
MB350ST32	32	185,17
MB350ST33	33	185,17
MB350ST34	34	185,17
MB350ST35	35	185,17
MB350ST36	36	185,17

50 mm PROF. DI TAGLIO

MB500ST

	Ø mm	€
MB500ST37	37	217,32
MB500ST38	38	217,32
MB500ST39	39	217,32
MB500ST40	40	217,32
MB500ST41	41	233,85
MB500ST42	42	233,85
MB500ST43	43	233,85
MB500ST44	44	233,85
MB500ST45	45	233,85
MB500ST46	46	272,94
MB500ST47	47	272,94
MB500ST48	48	272,94
MB500ST49	49	272,94
MB500ST50	50	272,94

PUNZONI Ø 6,35 mm FRESE A CAROTARE Ref. MB250AT e MB500AT



	DESCRIZIONE	L mm	€
P250CA	Frese a carotare MB250AT Ø16-32 mm	71	12,38
P500CA	Frese a carotare MB500AT Ø16-32 mm	92	14,25

PUNZONI FRESE A CAROTARE Ref. MB350ST e MB500ST



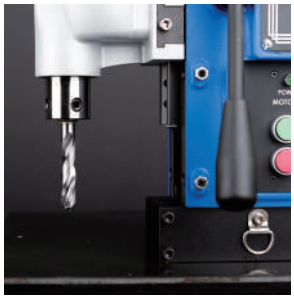
	DESCRIZIONE	Ø x L mm	€
P350AA-1	Frese a carotare MB350ST Ø18-36 mm	Ø8x91	20,26
P500AA	Frese a carotare MB500ST Ø37-50 mm	Ø8x112	22,73

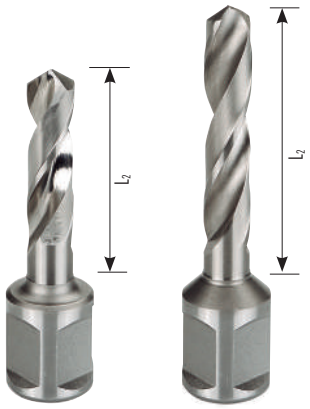
PUNTE, PUNTA-MASCHIO E SVASATORE PER MACCHINE A SUPPORTO MAGNETICO

HSS PUNTA

Ref. **BMG**





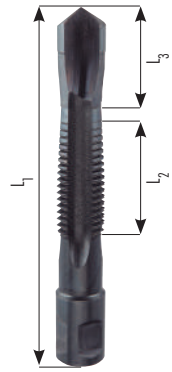


			BMG		BMGL
	Ø mm	L_2 mm	€	L_2 mm	€
BMG0600	6,00	25	**35,88**	50	**52,64**
BMG0675	6,75	25	**42,22**	50	
BMG0700	7,00	25	**42,22**	50	**52,75**
BMG0800	8,00	25	**42,22**	50	**52,75**
BMG0850	8,50	25	**42,22**	50	
BMG0900	9,00	25	**42,22**	50	**52,75**
BMG1000	10,00	25	**44,48**	50	**55,59**
BMG1020	10,20	25	**44,48**	50	
BMG1100	11,00	25	**44,48**	50	**55,59**
BMG1200	12,00	25	**44,48**	50	**55,59**
BMG1300	13,00	25	**47,62**	50	**63,33**
BMG1400	14,00	25	**48,52**	50	**64,52**
BMG1500	15,00	25	**48,98**	50	**66,11**
BMG1600	16,00	25	**60,43**	50	**75,54**

HSS PUNTA-MASCHIO

Ref. **MBE**





				MBE
	Ø	L_1 x L_2 x L_3 mm	FILETTATURA	€
MBE8M08X1,25	6,75	110x12,5x15	M8 x 1,25	**83,06**
MBE8M10X1,50	8,50	113x15,0x15	M10 x 1,50	**83,06**
MBE8M12X1,75	10,20	117x18,0x16	M12 x 1,75	**83,06**
MBE8M14X2,00	12,00	117x20,0x16	M14 x 2,00	**83,06**
MBE8M16X2,00	14,00	117x20,0x16	M16 x 2,00	**83,06**
MBE8M18X2,50	15,50	130x25,0x16	M18 x 2,50	**83,06**
MBE8M20X2,50	17,50	135x25,0x16	M20 x 2,50	**92,37**
MBE8M22X2,50	19,50	135x25,0x17	M22 x 2,50	**98,74**
MBE8M24X3,00	21,00	148x30,0x17	M24 x 3,00	**131,86**
MBE8M27X3,00	24,00	155x30,0x18	M27 x 3,00	**168,46**
MBE8M30X3,50	26,50	169x63,0x19	M30 x 3,50	**191,69**

HSS SVASATORE

Ref. **ABE**

90°



	ABE	
	Ø mm	€
ABE25	25	**92,10**
ABE30	30	**102,96**
ABE40	40	**120,57**
ABE50	50	**168,05**
ABE55	55	**184,23**
ABE63	63	**248,46**

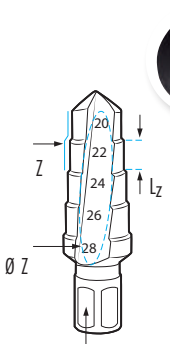


PUNTA SVASATORE E ADATTATORE PER MACCHINE A SUPPORTO MAGNETICO

HSS

PUNTA SVASATORE

Ref. **MBE**



WELDON
Ø19,05mm



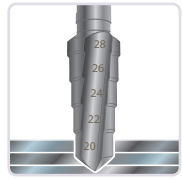
Ref. **MBE20-28**

Tipo A

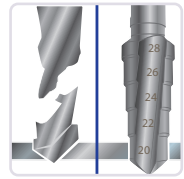


Ref. **MBE22-26**

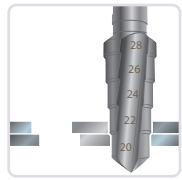
Tipo B



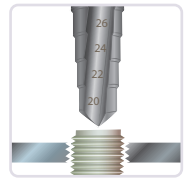
Misure multiple di fori in un solo utensili.



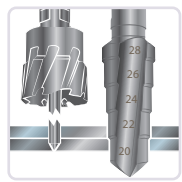
Design più compatto che allunga la vita dell'utensile ed evita rotture scomode.



È possibile trapanare due pezzi separate e allineare 2 fori non coassiali.



Allarga facilmente i fori.



Trapani su set di fogli, senza pericolo di rottura, come accade con le frese a tazza.



Non sono necessari accessori come il punzone guida.

MBE

	Ø Z mm minore-maggiore	Geometria	Z	Lz mm	€
MBE08-16	8 - 10 - 12 - 14 - 16	Tipo A	5	12	**43,93**
MBE10-18	10 - 12 - 14 - 16 - 18	Tipo A	5	12	**48,64**
MBE20-28	20 - 22 - 24 - 26 - 28	Tipo A	5	12	**69,30**
MBE30-38	30 - 32 - 34 - 36 - 38	Tipo B	5	12	**107,89**
MBE40-48	40 - 42 - 44 - 46 - 48	Tipo B	5	12	**154,55**
MBE10-14	10 - 12 - 14	Tipo A	3	25	**37,35**
MBE16-20	16 - 18 - 20	Tipo A	3	25	**53,29**
MBE22-26	22 - 24 - 26	Tipo B	3	25	**63,97**
MBE28-32	28 - 30 - 32	Tipo B	3	25	**86,61**
MBE34-38	34 - 36 - 38	Tipo B	3	25	**107,92**
MBE40-44	40 - 42 - 44	Tipo B	3	25	**133,22**
MBE46-50	46 - 48 - 50	Tipo B	3	25	**159,88**

Geometria di tipo A: Con punta e taglio al centro.
Geometria di tipo B: Senza punta e senza taglio al centro. Ingrandisce solo i fori precedentemente realizzati.

HSS

ADATTATORE DOPPIO WELDON 19.05 A 1/4" ESAGONALE

Ref. **MBEHEX1/4**



Ref. **MBEHEX1/4**

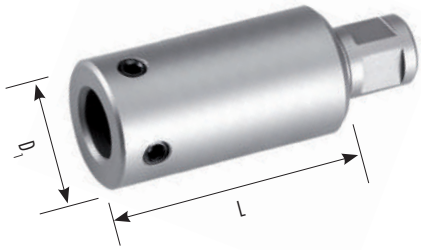
MBEHEX1/4

	DESCRIZIONE	€
MBEHEX1/4	DOPPIO WELDON 19,05 a 1/4" HEX	**16,38**

ESTENSIONI PER FRESE A CAROTARE SU TRAPANI CON BASE MAGNETICA



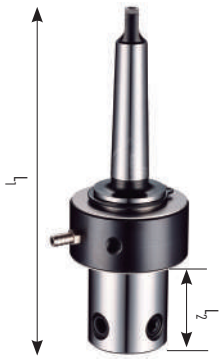
ATTACCO: 19,05 mm DOBLE WELDON **USCITA: 19,05 mm WELDON**



	ACRWX		
	L mm	D1 mm	€
ACRWX75	75	35	**40,99**
ACRWX100	100	35	**91,00**
ACRWX150	150	35	**120,12**
ACRWX200	200	35	**162,59**
ACRWX250	250	35	**202,64**

Questo adattatore alloggia al suo interno un punzone di prolunga che permette di utilizzare frese HSS/HSSCo con il punzone originale, senza la necessità di cambiarlo con uno extra lungo. Nel caso di utilizzo di frese dentate in metallo duro, il cui punzone è di 8 mm, occorre sostituire il punzone con uno più lungo, come P1500CA, P2000CA o P2500CA.

MANDRINI PER TRAPANI CON BASE MAGNETICA E TRAPANI A COLONNA



Ref.**CMNº2**


Ref.**CMNº2SR**


Ref.**CMNº2CR**


Ref.**CMNº3**


Ref.**CMNº3SR**


Ref.**CMNº3x32**


Ref.**CMNº4x32**



	L2 mm	L1 mm	CM	Uscita	Refrigerazione	€
CMNº2	43	158	2	19,05	Con	**177,07**
CMNº2SR	43	158	2	19,05	Senza	**141,66**
CMNº2CR	43	158	2	19,05 Quick- IN	Con	**289,54**
CMNº3	43	177	3	19,05	Con	**189,71**
CMNº3SR	43	177	3	19,05	Senza	**151,77**
CMNº3CR	43	177	3	19,05 Quick- IN	Con	**289,54**
CMNº4	80	250	4	19,05	Con	**240,12**
CMNº5	80	270	5	19,05	Con	**251,66**
CMNº3x32	116	229	3	32,00	Con	**242,13**
CMNº4x32	116	250	4	32,00	Con	**314,44**

ADATTATORI PER ALTRI TIPI DI ATTACHI





ACR18W

ATTACCO: 18 mm FEIN
USCITA: 19,05 mm DOPPIO WELDON



ACR18W
40,99 €

ATTACCO: 19,05 mm DOPPIO WELDON
USCITA: FILETTATURA M18 X 6 P1,5



ACRWM18X6P1,5
40,99 €

ATTACCO: NITTO
USCITA: FILETTATURA M18 X 6 P1,5



ACRNM18X6P1,5
40,99 €

ATTACCO: 19,05 mm DOPPIO WELDON
USCITA: 1/2 X 20 UNF



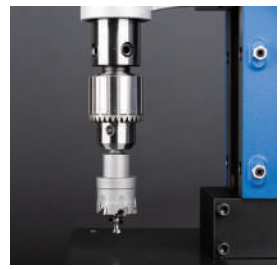
ACRW1/2X20
40,99 €

ATTACCO: NITTO / 19,05 mm DOPPIO WELDON
USCITA: 1/2 X 20 UNF



ACRN1/2X20
40,99 €





ACRWB16

ATTACCO: NITTO
USCITA: 19,05 mm DOPPIO WELDON



ACRNITTO
40,99 €

ATTACCO: 19,05 mm DOPPIO WELDON
USCITA: B16



ACRWB16
40,99 €

ATTACCO: 18 mm FEIN
USCITA: B16



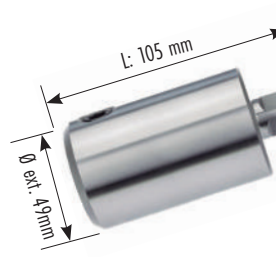
ACR18B16
40,99 €

ATTACCO: NITTO / 19,05 mm DOPPIO WELDON
USCITA: B16



ACRNB16
40,99 €

ATTACCO: 19,05 mm DOPPIO WELDON
USCITA: 32 mm DOPPIO WELDON



ACRWX32
40,99 €

KIT ED ESPOSITORI IN METACRILATO CON FRESE A CAROTARE PER MACCHINE A SUPPORTO MAGNETICO





NEW

	Contenuto:		€
EFB250R1	6 Frese a carotare Ref. 250R: Ø12-14-16-18-20-22 mm 2 Punzoni Ref. P250CA	HSS	196,06
EFB250C1	6 Frese a carotare Ref. 250C: Ø12-14-16-18-20-22 mm 2 Punzoni Ref. P250CA	HSSCo	357,03
EFB500R1	6 Frese a carotare Ref. 500R: Ø12-14-16-18-20-22 mm 2 Punzoni Ref. P500CA	HSS	267,33
EFB500C1	6 Frese a carotare Ref. 500C: Ø12-14-16-18-20-22 mm 2 Punzoni Ref. P500CA	HSSCo	503,88
EFB500R5	6 Frese a carotare Ref. 500R: Ø 14 - 16 - 18 - 20 - 22 -24 mm 2 Punzoni Ref. P500CA	HSS	277,71
EFB500C5	6 Frese a carotare Ref. 500C: Ø 14 - 16 - 18 - 20 - 22 -24 mm 2 Punzoni Ref. P500CA	HSSCo	555,18

NEW

	Contenuto:		€
EFBBMG1	6 Frese a carotare Ref. BMG: Ø 6 - 8 - 10 - 12 - 14 - 16 mm	HSS	279,00
EFBBMG2	3 Frese Ref. BMG: Ø 6 - 8 - 10 mm 3 Frese Ref. 250R: Ø 12 - 14 - 16 mm 2 Punzoni Ref. P250CA	HSS	228,57
EFBBMG3	3 Fresas Ref. BMG: Ø 6 - 8 - 10 mm 3 Fresas Ref. 250C: Ø 12 - 14 - 16 mm 2 Punzoni Ref. P250CA	HSSCo	290,59





Dimensiones: 210 x 210 x 210 mm

Contenuto: 20 Frese a carotare — **CFBE01**

HSS — Ref. 250R: Ø 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30 - 32 mm
Ref. 500R: Ø 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30 - 32 mm

888,29 €

Contenuto: 20 Frese a carotare — **CFBE02**

HSSCo — Ref. 250C: Ø 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30 - 32 mm
Ref. 500C: Ø 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30 - 32 mm

1.769,48 €

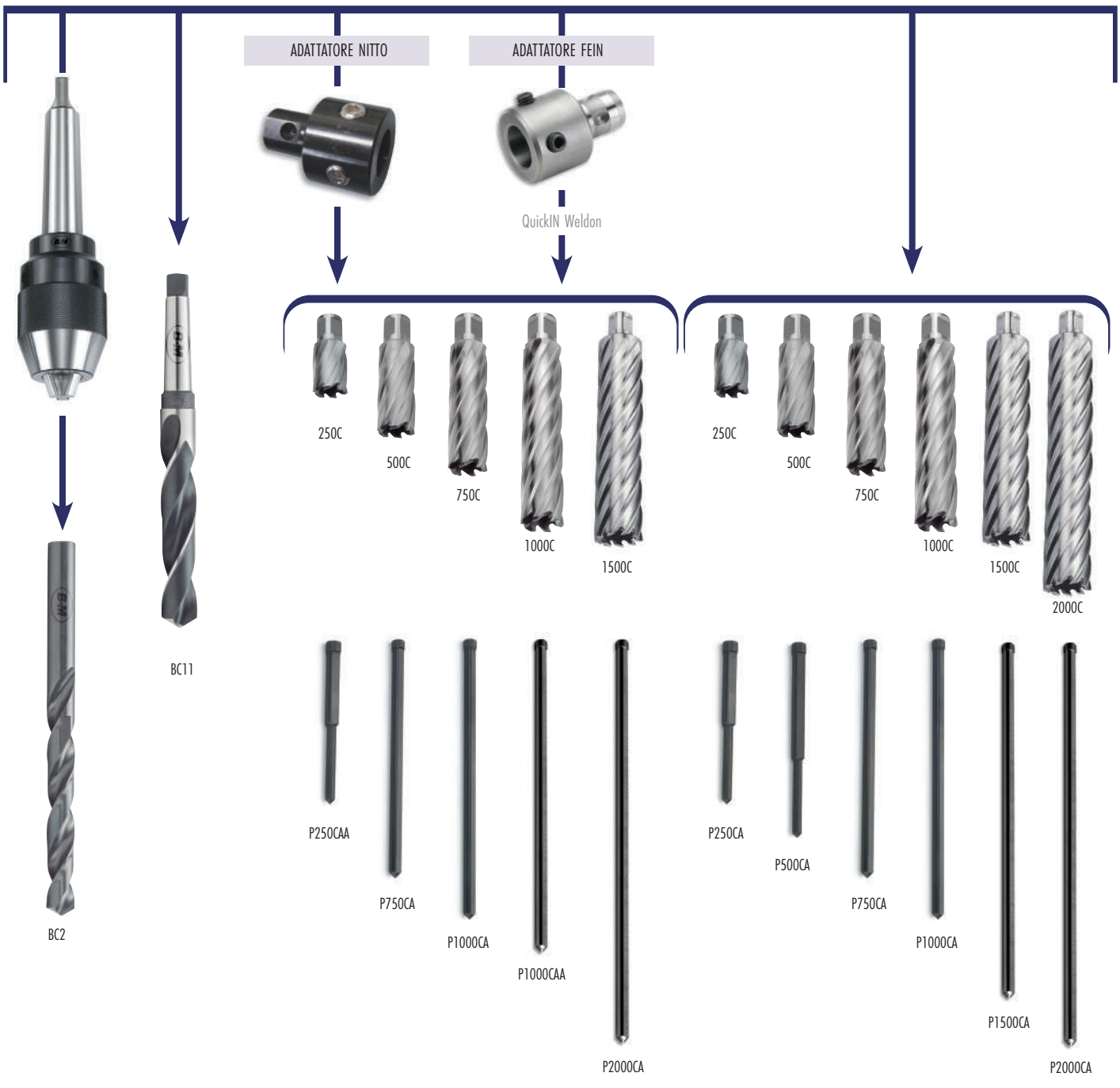
Contenuto: 18 Frese a carotare — **CFBE03**

MD — Ref. 350A: Ø 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30 - 32 mm
Ref. 500A: Ø 18 - 20 - 22 - 24 - 26 - 28 - 30 - 32 mm

1.988,88 €

DIAGRAMMA ILLUSTRATIVO DEGLI ACCESSORI PER FRESE A CAROTARE PER MACCHINE A SUPPORTO MAGNETICO





CONDIZIONI DI TAGLIO PER FRESE A CAROTARE PER MACCHINE A SUPPORTO MAGNETICO

mm/GIRO			INOX	GHISA	Al	Ni
250R - 500R - 1500C - 2000C	0,053	-	0,05	0,075	0,12	-
250C - 500C - 750C - 1000C - MB350AT - MB500AT	0,063	-	0,055	0,085	0,15	-
350A - 500A - 750A - 1000A - MB350ST - MB500ST	0,10	0,075	0,10	0,15	0,22	0,07

SCELTA DELLE R.P.M. PER FRESE A CAROTARE 250R - 500R - 250C - 500C - 750C - 1000C- 1500C - 2000C

Vc (m/min)													
100	3183	2122	1952	1273	1061	909	796	637	531	455	398	354	318
95	3024	2016	1512	1512	1008	864	756	605	504	432	378	336	302
90	2865	1910	1432	1432	955	819	716	573	477	409	358	318	286
85	2706	1804	1353	1353	902	773	676	541	451	387	338	301	271
80	2547	1698	1273	1276	849	728	637	509	424	364	318	283	255
75	2387	1592	1194	1194	796	682	597	477	398	341	298	265	239
70	2228	1485	1114	1114	743	637	557	446	371	318	279	248	223
65	2069	1379	1035	1035	690	591	517	414	345	296	259	230	207
60	1910	1273	955	922	637	546	477	382	318	273	239	212	191
55	1751	1167	875	875	584	500	438	350	292	250	219	195	175
50	1592	1061	796	796	531	455	398	318	265	227	199	177	159
45	1432	955	716	716	477	409	658	286	239	205	179	159	143
40	1273	849	637	637	424	364	618	255	212	192	159	141	127
35	1114	743	557	557	371	318	279	223	186	159	139	124	111
30	955	637	477	477	318	273	239	191	159	136	119	106	95
25	796	531	398	398	265	227	199	159	133	114	99	88	80
20	637	424	318	318	212	182	159	127	106	91	80	71	64
15	477	318	239	239	159	136	119	95	80	68	60	53	48
10	318	212	159	159	106	91	80	64	53	45	40	35	32
	10	15	20	25	30	35	40	50	60	70	80	90	100

SCELTA DIAMETRO (Ø mm)

SCELTA DELLE R.P.M. PER FRESE A CAROTARE 350A - 500A - 750A - 1000A - MB350ST - MB500ST

Vc (m/min)													
100	3183	2122	1952	1273	1061	909	796	637	531	455	398	354	318
95	3024	2016	1512	1512	1008	864	756	605	504	432	378	336	302
90	2865	1910	1432	1432	955	819	716	573	477	409	358	318	286
85	2706	1804	1353	1353	902	773	676	541	451	387	338	301	271
80	2547	1698	1273	1276	849	728	637	509	424	364	318	283	255
75	2387	1592	1194	1194	796	682	597	477	398	341	298	265	239
70	2228	1485	1114	1114	743	637	557	446	371	318	279	248	223
65	2069	1379	1035	1035	690	591	517	414	345	296	259	230	207
60	1910	1273	955	922	637	546	477	382	318	273	239	212	191
55	1751	1167	875	875	584	500	438	350	292	250	219	195	175
50	1592	1061	796	796	531	455	398	318	265	227	199	177	159
45	1432	955	716	716	477	409	658	286	239	205	179	159	143
40	1273	849	637	637	424	364	618	255	212	192	159	141	127
35	1114	743	557	557	371	318	279	223	186	159	139	124	111
30	955	637	477	477	318	273	239	191	159	136	119	106	95
25	796	531	398	398	265	227	199	159	133	114	99	88	80
20	637	424	318	318	212	182	159	127	106	91	80	71	64
15	477	318	239	239	159	136	119	95	80	68	60	53	48
10	318	212	159	159	106	91	80	64	53	45	40	35	32
	10	15	20	25	30	35	40	50	60	70	80	90	100

SCELTA DIAMETRO (Ø mm)

BLUE-MASTER®
by celesa



CORONE E FRESE PER EDILIZIA

CORONA PERFORATRICE EXTRA PROFESSIONALE, DENTI IN METALLO DURO E GAMBO SDS-PLUS

Ref. 600W

SDS Plus | MD

80 mm CAPACITÀ DI TAGLIO



- Per lavorare con queste Corona sono necessari tre elementi, che si ordinano separatamente:
  - Corona: Disponibile nei diametri indicati.
  - Gambo SDS-PLUS nelle sue differenti lunghezze con filettatura rotonda.
  - Punzone pilota.
- Non perforare metalli, porcellanici o calcestruzzo armato.
- Rimuovere la Corona dal foro in modalità a rotazione.
- Prima di utilizzare un gambo lungo, utilizzarne uno corto fino al suo limite, in modo da prevenire la rottura dovuta alla torsione crescente.
- Lavorare a 700 R.P.M.
- Lavori a percussione.

	600W	
	Ø mm	€
600W25C	25	**80,44***
600W29C	29	**85,78***
600W65C	65	**172,49***
600W70C	70	**185,33***
600W75C	75	**198,16***
600W80C	80	**210,99***

- Il prezzo non include nè l'gambo nè il punzone pilota.

*Fino ad esaurimento scorte.



MAGGIORE RESISTENZA DELLA CORONA GRAZIE AL GAMBO EXTRA ROBUSTO



Ref. 600WSDS1105



Ref. 600WSDS1200



Ref. 600WSDS1300



Ref. 600WSDS2105



Ref. 600WSDS2200



Ref. 600WSDS2300



Ref. 600WP

GAMBI PER CORONE PERFORATRICI EXTRA PROFESSIONALLI

	DESCRIZIONE	INTERVALLO Ø mm	€
600WSDS1105	Gambo SDS Plus 105 mm	25 - 38	**21,78**
600WSDS1200	Gambo SDS Plus 200 mm	25 - 38	**26,96**
600WSDS1300	Gambo SDS Plus 300 mm	25 - 38	**32,01**
600WSDS2105	Gambo SDS Plus 105 mm	45 - 100	**24,37**
600WSDS2200	Gambo SDS Plus 200 mm	45 - 100	**35,95**
600WSDS2300	Gambo SDS Plus 300 mm	45 - 100	**47,39**
600WP0	Punzone pilota	25 - 29	**30,80**
600WP1	Punzone pilota	32 - 38	**30,80**
600WP2	Punzone pilota	45 - 100	**30,80**

CORONA PERFORATRICE EXTRA PROFESSIONALE IBRIDA, DENTI IN METALLO DURO

Ref. **CW**

SDS Plus | SDS Max | MD

95 mm CAPACITÀ DI TAGLIO



- Per lavorare con queste Corona sono necessari tre elementi, che si ordinano separatamente:
  - Corona: Disponibile nei diametri indicati.
  - Gambo SDS-PLUS e SDS-MAX nelle sue differenti lunghezze con filettatura rotonda.
  - Punzone pilota.
- Non perforare metalli, porcellanici o calcestruzzo armato.
- Rimuovere la corona dal foro in modalità a rotazione.
- Lavorare a 700 R.P.M.

		CW
	Ø mm	€
CW25	25	**64,94**
CW27	27	**65,83**
CW30	30	**75,56**
CW35	35	**83,36**
CW40	40	**96,26**
CW45	45	**111,30**
CW50	50	**123,71**
CW60	60	**140,47**
CW65	65	**169,06**
CW68	68	**179,34**
CW70	70	**184,27**
CW75	75	**198,06**
CW80	80	**216,53**
CW90	90	**224,31**
CW95	95	**260,26**
CW100	100	**286,58**
CW105	105	**306,57**
CW110	110	**338,84**
CW115	115	**376,97**
CW120	120	**376,97**
CW130	130	**430,15**
CW140	140	**495,06**
CW150	150	**517,07**
CW160	160	**588,58**
CW170	170	**639,19**
CW180	180	**693,10**
CW190	190	**794,85**
CW200	200	**847,12**



MAGGIORE RESISTENZA DELLA CORONA GRAZIE AL GAMBO EXTRA ROBUSTO

* Il prezzo non include nè l'gambo nè il punzone pilota.



Ref. **CWSDS-105**



Ref. **CWSDS-200**



Ref. **CWSMAX-105**



Ref. **CWSMAX-200**



Ref. **CWBR**

GAMBI PER CORONE PERFORATRICI EXTRA PROFESSIONALLI

	DESCRIZIONE	INTERVALLO Ø mm	€
CWSDS-105	Gambo SDS Plus 105 mm	25 - 200	**32,93**
CWSDS-200	Gambo SDS Plus 200 mm	25 - 200	**51,84**
CWSDS-300	Gambo SDS Plus 300 mm	25 - 200	**68,57**
CWSDS-450	Gambo SDS Plus 450 mm	25 - 200	**92,86**
CWSMAX-200	Gambo SDS Max 200 mm	25 - 200	**51,84**
CWSMAX-300	Gambo SDS Max 300 mm	25 - 200	**68,57**
CWSMAX-450	Gambo SDS Max 450 mm	25 - 200	**92,86**
CWBR	Punta pilota Ø10 x 160 mm	25 - 200	**19,75**

CORONA PERFORATRICE PER EDILIZIA, DENTI IN METALLO DURO, GAMBO SDS-PLUS E ESAGONALE DI 11 mm

Ref. HA

SDS Plus | MD | 54 mm CAPACITÀ DI TAGLIO



- L'insieme è composto da tre pezzi:
  - Corona: disponibile nei diametri indicati
  - Gambi: filettatura M16 x 2. Disponibile a codolo cilindrico o SDS PLUS
  - Punta pilota Ø 8 mm
- Non perforare metalli, porcellanici o calcestruzzo armato.
- Rimuovere la Corona dal foro in modalità a rotazione.
- Lavorare a 700 R.P.M.
- Lavori a percussione.

	Ø mm	Z	HA €
HA25	25	4	**56,18**
HA30	30	6	**60,24**
HA35	35	6	**64,63**
HA40	40	6	**70,45**
HA45	45	6	**73,25**
HA50	50	6	**75,12**
HA60	60	6	**86,96**
HA68	68	6	**91,59**
HA70	70	6	**102,36**
HA80	80	6	**112,25**
HA90	90	6	**122,60**
HA100	100	6	**156,18**
HA115	115	6	**201,36**
HA125	125	6	**225,36**
HA130	130	6	**256,98**

* Il prezzo non include nè l'gambo nè la punta pilota.

GAMBI ESAGONALE DI 11 mm



	DESCRIZIONE	INTERVALLO Ø mm	€
HA11X100	Corto. Codolo 100 mm	Mandrini fino a 13 mm di capacità	**29,05**
HA11X220	Lungo. Codolo 220 mm		**39,64**
HA11X320	ExtraLungo. Codolo 320 mm		**49,56**

GAMBI SDS PLUS

SDS Plus



	DESCRIZIONE	€
HA100SDS	ExtraCorto. Codolo SDS PLUS 100 mm	**34,83**
HA170SDS	Corto.Codolo SDS PLUS 170 mm	**39,36**
HA220SDS	Lungo. Codolo SDS PLUS 220 mm	**45,34**
HA320SDS	ExtraLungo. Codolo SDS PLUS 320 mm	**56,46**

PUNTA PILOTA Ø 8 x 100 mm



HA8
9,92 €

GAMBI INTEGRALI SDS PLUS "ANTI-ROTTURA"

SDS Plus



	DESCRIZIONE	€
HA175SDSM	Corto. SDS PLUS 175 mm	**76,53**
HA340SDSM	Lungo. SDS PLUS 340 mm	**99,85**
HA440SDSM	ExtraLungo. SDS PLUS 440 mm	**116,80**

CORONA PERFORATRICE LAVORI LEGGERI, DENTI IN METALLO DURO, GAMBO ESAGONALE E SDS-PLUS

Ref. MD

SDS Plus | MD | 60 mm CAPACITÀ DI TAGLIO



- L'insieme è composto da tre pezzi:
  - Corona: disponibile nei diametri indicati
  - Gambi: filettatura M16 x 2. Disponibile a codolo esagonale o SDS PLUS
  - Punta pilota Ø 8 mm
- Non perforare metalli, porcellanici o calcestruzzo armato.
- Rimuovere la Corona dal foro in modalità a rotazione
- Lavorare a 700 R.P.M.
- Lavori a percussione.

	Ø mm	MD €
MD22SH	22	33,70
MD25SH	25	40,98
MD27SH	27	41,56
MD30SH	30	47,68
MD35SH	35	52,62
MD40SH	40	60,76
MD45SH	45	67,17
MD50SH	50	69,21
MD60SH	60	78,88
MD65SH	65	79,32
MD68SH	68	79,43
MD70SH	70	103,38
MD75SH	75	111,13
MD80SH	80	111,97
MD90SH	90	117,99
MD95SH	95	127,77
MD100SH	100	134,23
MD120SH	120	159,76

* Il prezzo non include nè l'gambo nè la punta pilota.

GAMBI ESAGONALE DI 11 mm



	DESCRIZIONE	INTERVALLO Ø mm	€
HA11X100	Corto. Codolo 100 mm	Mandrini fino a 13 mm di capacità	29,05
HA11X220	Lungo. Codolo 220 mm		39,64
HA11X370	ExtraLungo. Codolo 370 mm		49,56

GAMBI CODOLO SDS PLUS

SDS Plus



	DESCRIZIONE	€
HA100SDS	ExtraCorto. Codolo 100 mm	34,83
HA170SDS	Corto.Codolo 170 mm	39,36
HA220SDS	Lungo. Codolo 220 mm	45,34
HA320SDS	ExtraLungo. Codolo 320 mm	56,46

GAMBI INTEGRALI SDS PLUS "ANTI-ROTTURA"



SDS Plus

	DESCRIZIONE	€
HA175SDSM	Corto. SDS PLUS 175 mm	76,53
HA340SDSM	Lungo. SDS PLUS 340 mm	99,85
HA440SDSM	ExtraLungo. SDS PLUS 440 mm	116,80

PUNTA PILOTA Ø 8 x 120 mm



HA8
9,92€

COMPLETO GALL A PARETE, MANDRINO, PUNTA GUIDA E CORONA

NEW

Ref. MD

SDS Plus | MD | 60 mm CAPACITÀ DI TAGLIO

	Ø mm	DESCRIZIONE	€
MD50SDSB	50	Codolo SDS PLUS M16	74,21
MD60SDSB	60		83,88
MD68SDSB	68		84,43
MD90SDSB	90		122,99





CORONA PERFORATRICE PER LAVORI PESANTI NEL CALCESTRUZZO ARMATO ASTA SDS-MAX

Ref. MH

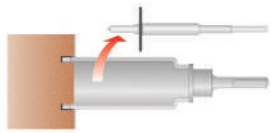
SDS Max | MD | 100 mm CAPACITÀ DI TAGLIO



- Non perforare metalli o ceramiche.
- Prese assiali leggere, conviene ridurle ulteriormente per iniziare a forare i tondini.
- Rimuovere il punzone quando la Corona ha penetrato il materiale.
- Lavorare a 500 R.P.M.
- Lavori a percussione.



1- Utilizzare il punzone guida per iniziare la perforazione.



2- Estrarre il punzone quando la corona ha penetrato leggermente.





	MH		
	Ø mm	Z	€
MH25	25	4	**123,85**
MH29	29	4	**132,16**
MH32	32	4	**147,12**
MH35	35	4	**163,54**
MH38	38	4	**181,69**
MH45	45	6	**206,38**
MH50	50	8	**219,64**
MH55	55	10	**231,28**
MH60	60	10	**249,43**
MH65	65	10	**265,82**
MH70	70	12	**285,78**
MH75	75	12	**305,52**
MH80	80	12	**325,30**
MH90	90	14	**371,50**
MH100	100	16	**414,55**
MH120	120	18	**503,61**
MH150	150	24	**705,61**

Il prezzo non include ne la asta porta corona ne il punzone pilota.



MAGGIORE RESISTENZA DELLA CORONA GRAZIE ALLA ASTA EXTRA ROBUSTA

ASTE PORTA CORONE PER CORONE PERFORATRICE EXTRA PROFESSIONALI



Ref. **MHSK1MAX**



Ref. **MHCP**

	DESCRIZIONE	INTERVALLO Ø mm	€
MHSK1MAX	Asta SDS MAX Lt:300 mm	25 - 35	**101,61**
MHSK2MAX	Asta SDS MAX Lt:300 mm	38 - 150	**105,83**
MHCP0	Punzone pilota Nº 0	25 - 29	**56,46**
MHCP1	Punzone pilota Nº 1	32 - 35	**56,46**
MHCP2	Punzone pilota Nº 2	38 - 150	**56,46**

CORONA PESANTE DA COSTRUZIONE, DENTI METALLICI IN METALLO DURO FISSAGGIO CONICO 1:8 ANTIROTTURA

NEW

Ref. CLA

SDS Max | MD

Corona pesante per elevate prestazioni nei martelli elettrici con potenza d'impatto maggiore ≥ 900w.
Denti in metallo duro inclinati in posizione perfetta per un attacco potente. Perno e corona trattati termicamente per maggiore resistenza e prestazioni.
Il bloccaggio conico 1:8 rende la connessione mandrino-corona più solidale e migliora la trasmissione della potenza.

70 mm CAPACITÀ DI TAGLIO



ASTA PORTA CORONE SDS MAX





	DESCRIZIONE	€
CLAMAX220	Codolo SDS MAX. Lt:220 mm	75,54
CLAMAX420	Codolo SDS MAX. Lt:420 mm	89,02
CLAMAX700	Codolo SDS MAX. Lt:700 mm	145,69
CLAMAX900	Codolo SDS MAX. Lt:900 mm	198,36

* Vedi la gamma di mandrini disponibili con impugnatura zigrinata e impugnatura esagonale da 13 mm.

CLA

	Ø mm	€
CLA030	30	119,04
CLA035	35	124,53
CLA040	40	127,86
CLA045	45	138,33
CLA050	50	149,36
CLA055	55	161,63
CLA060	60	165,01
CLA066	66	166,75
CLA068	68	171,44
CLA070	70	204,44
CLA080	80	237,68
CLA090	90	274,51
CLA100	100	296,59
CLA110	110	308,53
CLA115	115	320,78
CLA125	125	333,38
CLA150	150	469,07

* Il prezzo non include codolo ne punta guida

KIT ESTRAZIONE PER CORONA CLA e PM



CLAEX
42,36

PUNTA PILOTA CORONA CLA/PM Ø11x135 mm



CLA11
15,80

FILETTATURA PARETE A CORONA PESANTE INTEGRALE, DENTI IN METALLO DURO ANTIROTTURA

NEW

Ref. PM

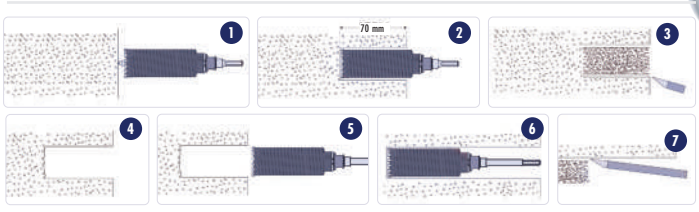
SDS Max | MD

Corona pesante integrale per prestazioni elevate nei martelli elettrici ad alta potenza.
La corona con perno integrato migliora la trasmissione della potenza durante il funzionamento.
Denti in metallo duro inclinati in posizione perfetta per un attacco potente.
Perno e corona trattati termicamente per maggiore resistenza e prestazioni.

190-450 CAPACITÀ DI TAGLIO



SISTEMA DI FORATURA PROFONDA CON CORONE DA COSTRUZIONE



PM

	Ø mm	Capacità di taglio mm	€
PM45X300	45	190	284,06
PM45X560	45	450	297,54
PM50X300	50	190	296,05
PM50X560	50	450	309,53
PM55X300	55	190	309,38
PM55X560	55	450	322,86
PM68X300	68	190	320,05
PM68X560	68	450	333,53
PM80X300	80	190	379,13
PM80X560	80	450	392,61
PM90X300	90	190	417,16
PM90X560	90	450	430,64
PM100X300	100	190	439,96
PM100X560	100	450	453,44
PM125X560	125	450	509,55
PM150X560	150	450	616,25

*Il prezzo include la fresa guida CLA11 e il kit di estrazione CLAEX

FRESA A TAZZA IN DIAMANTE ELETTRODEPOSITATO PER GRANITO, MARMO, PORCELLANICI E PLASTICHE RINFORZATE

Ref. CDE
Ref. CMAD





40 mm CAPACITÀ DI TAGLIO

GAMBO SOLIDALE



	CDE	
	Ø mm	€
CDE12	12	56,98
CDE14	14	57,53
CDE16	16	60,80
CDE18	18	64,08
CDE20	20	72,64
CDE25	25	80,48
CDE28	28	83,56
CDE30	30	88,63
CDE32	32	92,82
CDE35	35	78,51
CDE40	40	101,40
CDE43	43	102,65
CDE45	45	102,96
CDE50	50	103,46
CDE65	65	122,17
CDE68	68	137,27
CDE75	75	167,98
CDE80	80	177,49
CDE90	90	201,06
CDE100	100	201,06
CDE120	120	235,95

Questi prezzi includono l'gambo e la punta pilota.

GAMBO INTERCAMBIABILE FILETTABILE

- Foratura seriale di fibra di vetro, carbonio, poliestere, ...
- Il punzone espelle automaticamente il testimone.





	CMAD	
	Ø mm	€
CMAD20	20	146,32
CMAD22	22	153,17
CMAD25	25	158,13
CMAD28	28	161,51
CMAD30	30	163,85
CMAD32	32	168,74
CMAD35	35	194,71
CMAD40	40	204,73
CMAD45	45	216,54
CMAD50	50	228,10

Questi prezzi non includono l'gambo.

PUNTA PILOTA Ø 5 mm





BW90500
26,50 €

- Smontare la punta pilota quando la fresa a tazza ha penetrato il materiale.
- Si raccomanda l'utilizzo della guida "GCD" per frese a tazza.
- Rimuovere la fresa a tazza dal foro in modalità a rotazione, per evitare il distacco delle lastre dovuto al "effetto leva".
- Refrigerare ad acqua.
- R.P.M. Raccomandate
  Ø 100 mm: 400 R.P.M.
  Ø 50 mm: 800 R.P.M.
  Ø 20 mm: 1300 R.P.M.
- Lavorare esclusivamente in modalità a rotazione, non a percussione.



PUNTA PILOTA

GCD
43,25 €

Capacità: Ø 10 a 83 mm

TANICA DI REFRIGERAZIONE

GBP
9,73 €

Capacità: 1,1 l.



GCD



GBP

GAMBI CON RAFFREDDAMENTO INTERNO

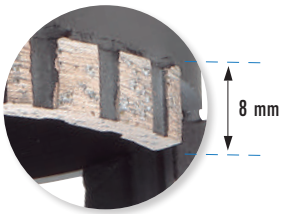
	DESCRIZIONE	€
350MC13	Gambo cilindrico Ø 13 mm	234,22
350MC16	Gambo cilindrico Ø 16 mm	234,22

FRESA A TAZZA IN DIAMANTE SEGMENTATA

NEW

Ref. **CDD**

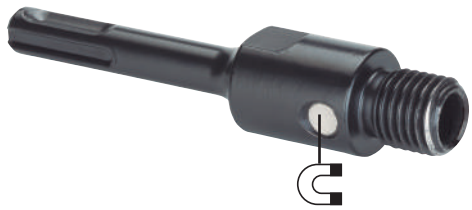








	Ø mm	Z	CDD €
CDD08	8		47,29
CDD10	10		51,51
CDD12	12		60,23
CDD15	15		65,36
CDD20	20		74,55
CDD26	26		81,25
CDD30	30	4	95,36
CDD35	35	4	103,36
CDD40	40	4	106,65
CDD45	45	4	110,62
CDD52	52	4	115,22
CDD55	55	4	120,33
CDD68	68	5	142,36
CDD72	72	5	145,25
CDD82	82	6	152,15
CDD92	92	8	162,95
CDD102	102	8	175,89



GAMBI PER CORONE CDD

	DESCRIZIONE	€
CDDHEX	Codolo esagonale 10,8 mm Lt:120 mm	20,36
CDDMAX	Codolo SDS Max Lt:200 mm	25,36
CDDPLUS	Codolo SDS Plus Lt:200 mm	22,11

PUNTA PILOTA SDS Plus





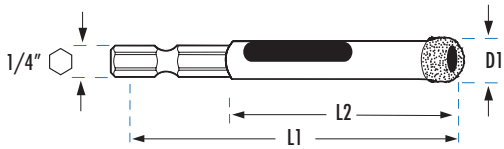
W0505x110
5,48 €

PUNTA IN DIAMANTE SALDATO A VUOTO PER PORCELLANICO

NEW

Ref. **CAH**

Serie Diamond



	D1 mm	⬡	L1x L2 mm	CAH €
CAH05	5,0	1/4	65 x 30	17,39
CAH06	6,0	1/4	65 x 30	18,66
CAH07	7,0	1/4	65 x 30	23,25
CAH08	8,0	1/4	65 x 30	24,44
CAH10	10,0	1/4	65 x 30	25,78
CAH12	12,0	1/4	65 x 30	31,79
CAH14	14,0	1/4	65 x 30	36,08
CAH15	15,0	1/4	65 x 30	59,81
CAH16	16,0	1/4	65 x 30	62,36
CAH18	18,0	1/4	65 x 30	64,25
CAH20	20,0	1/4	65 x 30	65,45
CAH22	22,0	1/4	65 x 30	71,94
CAH25	25,0	1/4	65 x 30	76,41
CAH28	28,0	1/4	65 x 30	77,36
CAH30	30,0	1/4	65 x 30	83,09
CAH32	32,0	1/4	65 x 30	89,36
CAH35	35,0	1/4	65 x 30	96,36



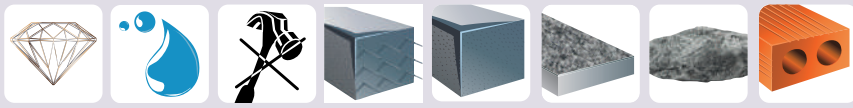




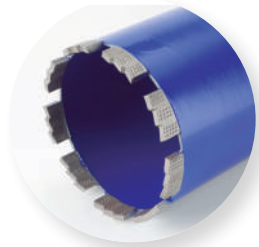
- Forare sempre in modalità a rotazione.
- Refrigerare con abbondante acqua durante la perforazione.
- La punta CPH perfora porcellanico sempre che sia garantita la presenza d'acqua tra il diamante e il pezzo da lavorare.
- Non introdurre mai in acqua la punta CPH dopo la perforazione. Una volta raggiunte alte temperature, lasciare raffreddare all'aria.
- Iniziare a forare con la punta inclinata (angolo da 15° a 30°) e raddrizzarla progressivamente. Le guide non sono necessarie.
- Perforare il porcellanico realizzando dolci movimenti rotatori, per facilitare l'estrazione del nucleo.
- Prima di finalizzare il lavoro, smetta di esercitare pressione per evitare che il nuceo di perforazione si attacchi all'interno della corona.
- Estrarre il nucleo di perforazione dall'apertura laterale.
- Maggior numero di perforazioni in meno tempo e con meno sforzo.

FRESA A TAZZA IN DIAMANTE PER LAVORI PESANTI

Ref. CHH









1" 1/4

- Nuova fresa a tazza segmentata per lavori di edilizia pesante.
- Alto rendimento nel lavoro intensivo nel calcestruzzo armato, calcestruzzo abrasivo, granito, pietra, mattone e asfalto.
- Refrigerare sempre ad acqua.
- Lavoro costante ed efficace che allunga la vita dell'utensile e della macchina.
- Segmenti più resistenti e con maggior contenuto di diamante per ottenere il massimo rendimento.
- Migliore evacuazione dei detriti, minore sforzo con macchina.
- Ottima gestione dello sforzo con macchina ad alta potenza.

	Ø mm	L1 mm	L2 mm	Z	KW	CHH €
CHH32	32	380	300	3	0,7>1,2	150,53
CHH42	42	380	300	4	0,7>1,2	164,22
CHH52	52	520	450	5	0,7>1,2	177,92
CHH62	62	520	450	6	0,7>1,2	205,30
CHH72	72	520	450	6	0,7>1,2	246,39
CHH82	82	520	450	7	1,2>2,3	260,09
CHH92	92	520	450	8	1,2>2,3	301,15
CHH102	102	520	450	9	1,2>2,3	328,54
CHH112	112	520	450	9	1,2>2,3	342,24
CHH122	122	520	450	10	1,2>2,3	369,61
CHH127	127	520	450	11	1,2>2,3	390,07
CHH132	132	520	450	11	1,2>2,3	410,68
CHH142	142	520	450	12	1,2>2,3	479,14
CHH152	152	520	450	12	1,2>2,3	479,14
CHH162	162	520	450	12	2,3>3,9	506,54
CHH172	172	520	450	13	2,3>3,9	574,98
CHH182	182	520	450	13	2,3>3,9	588,67
CHH200	200	520	450	15	2,3>3,9	657,14
CHH225	225	520	450	15	2,3>3,9	780,35
CHH250	250	520	450	16	2,3>3,9	862,50
CHH300	300	520	450	17	2,3>3,9	1.095,26

GAMBI PER CHH



SDS Plus	DESCRIZIONE	€
ADCHH-PLUS	Codolo SDS Plus. Lt:200 mm	64,23



SDS Max	DESCRIZIONE	€
ADCHH-MAX	Codolo SDS MAX. Lt:200 mm	66,80



	DESCRIZIONE	€
ADCHH-HEX	Codolo esagonale. Lt:220 mm	58,05

FRESA A TAZZA IN DIAMANTE SALDATO A VUOTO PER GRANITO, MARMO E PORCELLANICI

Ref. CSE

SERIE DIAMOND

PVC

M14x2

35 mm CAPACITÀ DI TAGLIO

SPECIALE LAVORI A SECCO





M14x2

Speciale smerigliatrici





- La fresa a tazza può lavorare il porcellanato a SECCO nonostante l'acqua ne aumenti esponenzialmente il rendimento.
- Filettatura femmina M14X2 nella parte posteriore per accoppiare smerigliatrici angolari (radiali).
- Iniziare a forare con la punta inclinata (angolo da 15º a 30º) e raddrizzarla progressivamente. Le guide non sono necessarie.
- Forare il porcellanico realizzando dolci movimenti rotatori, per facilitare l'estrazione del nucleo.
- Maggior numero di perforazioni in meno tempo e con meno sforzo.
- È preferibile estrarre manualmente il nucleo dopo ogni perforazione.

	CSE Ø mm	CSE €
CSE05*	5	56,24
CSE06*	6	56,41
CSE08*	8	56,88
CSE10*	10	56,96
CSE12*	12	58,69
CSE14*	14	59,25
CSE16	16	62,62
CSE18	18	65,99
CSE20	20	74,80
CSE22	22	77,87
CSE25	25	82,89
CSE27	27	85,82
CSE30	30	91,27
CSE32	32	95,59
CSE35	35	98,85
CSE38	38	101,53
CSE40	40	104,42
CSE45	45	106,23
CSE50	50	106,56
CSE51	51	110,62
CSE55	55	112,71
CSE57	57	119,02
CSE60	60	122,86
CSE65	65	125,79
CSE67	67	135,26
CSE68	68	141,37
CSE70	70	154,95
CSE75	75	172,99
CSE80	80	182,77
CSE83	83	206,57
CSE90	90	227,95
CSE95	95	243,41
CSE100	100	253,74
CSE110	110	282,59
CSE120	120	294,95
CSE130	130	310,29
CSE140	140	321,73
CSE150	150	332,03



Questi prezzi non includono l'gambo.

* Ø 5 a 14 mm la fresa contiene paraffina vegetale per refrigerazione.

ADATTATORE PER CSE



ALCSEX50



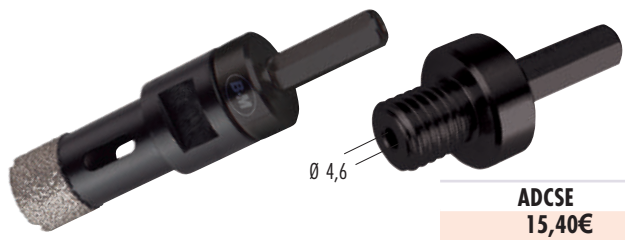
ADCSE-MAX



ADCSE-PLUS

	DESCRIZIONE	L mm	€
ALCSEX50	Prolunga 50mm CSE M14X2,00 Ø22mm	50	15,07
ALCSEX75	Prolunga 75mm CSE M14X2,00 Ø22mm	75	17,23
ADCSE-MAX	Adattatore CSE M14X2,00 SDS MAX	113	37,45
ADCSE-PLUS	Adattatore CSE M14X2,00 SDS PLUS	90	21,25

GAMBO ESAGONALE PER CSE



ADCSE
15,40€

LATTINA DI PARAFFINA LUBRIFICANTE

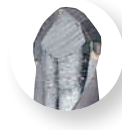


20 cm3

PACSE
10,54 €

PUNTA PILOTA PER GAMBO ADCSE OPZIONALE



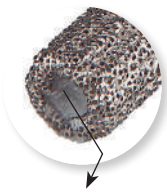


BW90500
26,50 €

FRESA A TAZZA IN DIAMANTE SALDATO A VUOTO PER GRANITO, MARMO E PORCELLANICI

Ref. CSE

35 mm CAPACITÀ DI TAGLIO | Speciale Lavoro a Secco | Serie Diamond



SERIE DI FRESE A TAZZA CSE 4 PEZZI + GAMBO + PARAFFINA





CSE9328

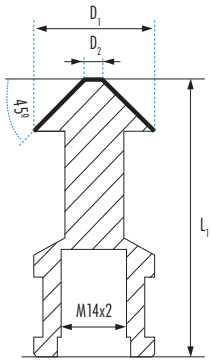
4 Frese a tazza CSE: Ø 5 - 6 - 8 - 10 mm
1 Gambo
1 Tanica di Paraffina 20 cm3

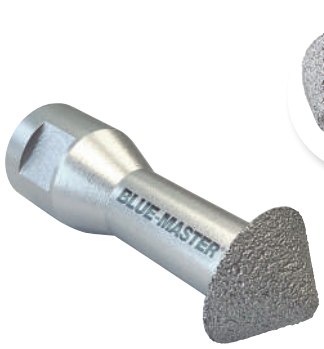
168,11 €

SVASATORE IN DIAMANTE SALDATO A VUOTO PER GRANITO, MARMO E PORCELLANICI

Ref. AVD

M14x2 | Speciale Lavoro a Secco | Serie Diamond









- Lo Svasatore può lavorare il porcellanato a SECCO nonostante l'acqua ne aumenti esponenzialmente il rendimento.
- Filettatura femmina M14X2 nella parte posteriore per accoppiare smerigliatrici angolare (radiale)

	D1 mm	D2 mm	α	L1 mm		AVD €
AVD0630	6,30	1,50	90º	45	M14X2	**85,72**
AVD0830	8,30	2,00	90º	50	M14X2	**85,72**
AVD1040	10,40	2,50	90º	50	M14X2	**85,72**
AVD1240	12,40	2,80	90º	56	M14X2	**94,30**
AVD1650	16,50	3,20	90º	60	M14X2	**102,87**
AVD2050	20,50	3,50	90º	63	M14X2	**107,16**
AVD2500	25,00	3,80	90º	67	M14X2	**133,94**
AVD3100	31,00	4,20	90º	71	M14X2	**166,10**

FRESA A TAZZA IN CARBURO DI TUNGSTENO PER MATERIALI NON METALLICI

Ref. MG



30 mm CAPACITÀ DI TAGLIO





FINITURE MOLTO SOTTILI

- Eccellente rendimento nel truciolato e nel legno.









Ø mm	Cartone		Blister	
	Ref.	€	Ref.	€
16	MG16	**13,60**	MG16B	**13,60**
19	MG19	**15,75**	MG19B	**15,75**
20	MG20	**17,71**	MG20B	**17,71**
22	MG22	**17,71**	MG22B	**17,71**
25	MG25	**18,55**	MG25B	**18,55**
29	MG29	**21,73**	MG29B	**21,73**
32	MG32	**24,59**	MG32B	**24,59**
35	MG35	**25,44**	MG35B	**25,44**
38	MG38	**27,49**	MG38B	**27,49**
44	MG44	**28,25**	MG44B	**28,25**
48	MG48	**30,26**	MG48B	**30,26**
51	MG51	**30,26**	MG51B	**30,26**
54	MG54	**30,06**	MG54B	**30,06**
57	MG57	**31,69**	MG57B	**31,69**
60	MG60	**33,92**	MG60B	**33,92**
64	MG64	**33,92**	MG64B	**33,92**
70	MG70	**39,07**	MG70B	**39,07**
76	MG76	**44,10**	MG76B	**44,10**
83	MG83	**45,04**	MG83B	**45,04**
86	MG86	**47,32**		
95	MG95	**50,04**		
102	MG102	**50,99**		
114	MG114	**55,35**		

* Il prezzo non include nè l'gambo nè la punta pilota.

GAMBI PER FRESE A TAZZA Ref. MG

	Ø mm	imballaggio	€
B5519-CM	16 - 29	In scatola	**11,02**
B5546-CM	32 - 114	In scatola	**18,78**
B5519-CMS	16 - 29	In blister	**11,02**
B5546-CMS	32 - 114	In blister	**18,78**



PUNTE PILOTA CON TESTA IN METALLO DURO Ø 6,35 mm

	LTmm	imballaggio	€
B8537	82 mm	In scatola	**2,72**
B8538	97 mm	In scatola	**2,72**
B8537S	82 mm	In blister	**5,01**
B8538S	97 mm	In blister	**5,01**

VALIGETTE FRESE A TAZZA MASTER-GRIT



Ref. MG9573



Ref. MG9572

MG9571 6 Seghe a tazza MG:
22 - 35 - 51 - 60 - 64 - 70 mm

Contenuto
1 Gambo Ref. B5519-CM ⎔ 9,5 Capacità 14-30
1 Gambo Ref. B5546-CM ⎔ 9,5 Capacità 32-250
1 Adattatore per gambo Ref. B5511

186,08 €

MG9572 10 Seghe a tazza MG:
20-22-25-32-35-38-44-60-70-76 mm

Contenuto
1 Gambo Ref. B5519-CM ⎔ 9,5 Capacità 14-30
1 Gambo Ref. B5546-CM ⎔ 9,5 Capacità 32-250
1 Adattatore per gambo Ref. B5511

201,35 €

MG9573 7 Seghe a tazza MG:
20 - 25 - 29 - 38 - 44 - 60 - 70 mm

Contenuto
1 Gambo Ref. B5519-CM ⎔ 9,5 Capacità 14-30
1 Gambo Ref. B5546-CM ⎔ 9,5 Capacità 32-250
1 Adattatore per gambo Ref. B5511

176,48 €

FRESA A TAZZA AD ALTO RENDIMENTO PER LEGNO CON DENTI IN METALO DURO

Ref. **CM**

MD

60 mm CAPACITÀ DI TAGLIO





- Elevata velocità di taglio.
- Grande apertura per evacuazione laterale.
- Lunga durata, anche nei materiali abrasivi.
- Ottima finitura del foro.
- Uso esclusivo a rotazione.



		CM
	Ø mm	€
CM022	22	**30,59**
CM025	25	**33,08**
CM027	27	**34,62**
CM030	30	**38,04**
CM032	32	**41,30**
CM035	35	**41,30**
CM038	38	**49,51**
CM040	40	**49,51**
CM045	45	**53,70**
CM050	50	**58,58**
CM055	55	**61,62**
CM060	60	**67,07**
CM062	62	**75,54**
CM065	65	**75,54**
CM068	68	**83,20**
CM070	70	**86,25**
CM075	75	**98,60**
CM080	80	**98,60**
CM090	90	**108,70**
CM095	95	**121,76**
CM100	100	**121,76**
CM110	110	**143,20**
CM120	120	**160,78**
CM125	125	**170,87**
CM130	130	**194,98**
CM140	140	**218,57**
CM150	150	**225,52**
CM160	160	**242,14**

Questi prezzi includono l'gambo e la punta pilota.

VELOCITÀ DI TAGLIO

INTERVALLO Ø mm	R.P.M.
22 - 27	2.800
30 - 38	2.300
40 - 50	1.800
55 - 60	1.500
62 - 80	1.000
90 - 100	700
108 - 125	500

GAMBI PER FRESE A TAZZA PER LEGNO



Ref. **CMB5520**



Ref. **CMB5545**



Ref. **CMB5556SDS**

DESCRIZIONE		€
CMB5520	Codolo esagonale 11 mm seghe a tazza Ø 22-40 mm	**15,63**
CMB5529SDS	Codolo SDS PLUS 11 mm seghe a tazza Ø 22-40 mm	**17,71**
CMB5545	Codolo esagonale seghe a tazza Ø 45-160 mm	**21,12**
CMB5556SDS	Codolo SDS PLUS seghe a tazza Ø 45-160 mm	**32,77**

PUNTA PILOTA Ø 6,35 x 107 mm



Ref. **B8535**

B8535
3,06 €

SEGA REGOLABILE A COMPASSO DA 200 mm

200 mm

CARTON GESSO







- Seghe regolabili a compasso multifunzione.
- Per forare cartongesso a soffitto in tetti, muri e pavimenti. Raccoglie il truciolo per realizzare un lavoro pulito.
- Realizza tagli in: truciolato, compensato, gesso, lamiere acriliche, piombo, ardesia, rivestimenti, ecc
- Per il taglio di alluminio, ottone, lamiere metalliche fino a 1 mm di spessore.
- La misura minima per forare è la stessa per tutte le seghe regolabili, 40 mm.
- Lama CL12-BT002 installata e ricambio CL12-BH002 incluso nella custodia







SEGA REGOLABILE A COMPASSO 200 mm

TB-9600-200
248,44 €

PEZZI DI RICAMBIO



CL12-BT002



CL12-BH002

	DESCRIZIONE	€
CL12-BH002	Lama per tutti i tipi di legno, cartongesso, pannelli laminati, ecc ...	20,69
CL12-BT002	Lama per intonaco, intonaco, controsoffitti in genere e metalli fino a 1 mm di spessore.	26,19

SEGA REGOLABILE A COMPASSO DA 220 e 285 mm

220 mm e 285 mm

CARTON GESSO



- Seghe regolabili a compasso multifunzione.
- Per forare cartongesso a soffitto in tetti, muri e pavimenti. Raccoglie il truciolo per realizzare un lavoro pulito.
- Realizza tagli in: truciolato, compensato, gesso, lamiere acriliche, piombo, ardesia, rivestimenti, ecc
- Per il taglio di alluminio, ottone, lamiere metalliche fino a 1 mm di spessore.
- La misura minima per forare è la stessa per tutte le seghe regolabili, 40 mm.
- Lama CL12HSS installata.









SEGA REGOLABILE A COMPASSO 220 mm

CL220
260,09 €

SEGA REGOLABILE A COMPASSO 285 mm

CL285
299,11 €

PEZZI DI RICAMBIO

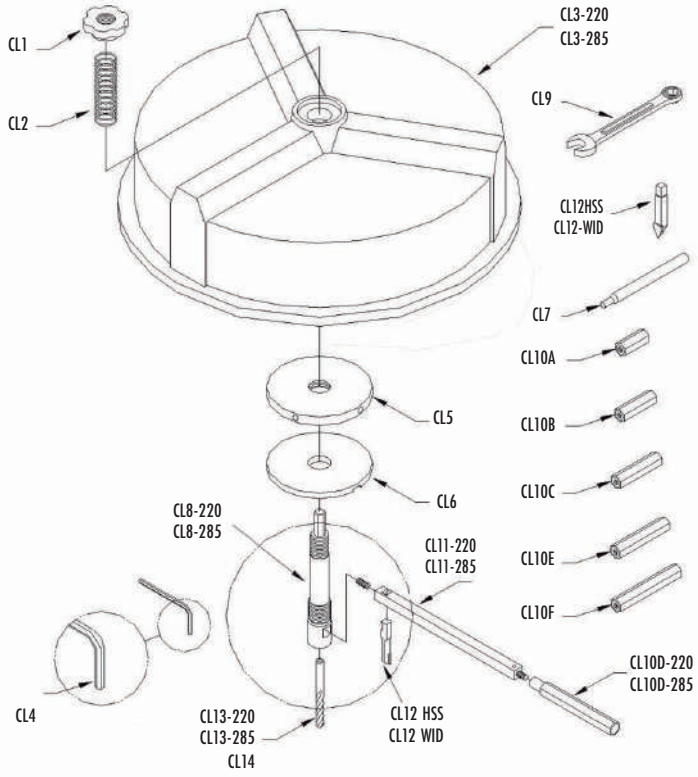


CL12HSS: Lama per intonaco, Pladur, controsoffitti in generale, legno, pannello laminato, fenolico, ecc.



CL12WID: Lama da taglio in metallo fino a 1 mm di spessore.

	DESCRIZIONE	€
CL1	Bullone esagonale 220/285	9,49
CL2	Molla di compressione 220/285	2,68
CL3-220	Tazza con rotazione 220	94,92
CL3-285	Tazza con rotazione 285	141,33
CL4	Chiave allen 220/285 (3 mm)	2,69
CL5	Piatto di fissaggio 220/285	18,49
CL6	Piatto regolazione 220/285	7,91
CL7	Asta regolazione 220/285	5,35
CL8-220	Asse verticale 220	42,23
CL8-285	Asse verticale 285	44,88
CL9	Chiave combinata 220/285	7,91
CL10A	Contrappeso p/cl220-cl285-cl410 di 33mm	3,80
CL10B	Contrappeso p/cl220-cl285-cl410 di 40mm	4,32
CL10C	Contrappeso p/cl220-cl285-cl410 di 56mm	5,02
CL10D-220	Contrappeso p/cl220 di 74 mm	5,35
CL10D-285	Contrappeso p/cl285-cl410 di 74 mm	5,35
CL10E	Contrappeso p/cl285-cl410 di 95 mm	6,91
CL10F	Contrappeso p/cl285-cl410 di 120 mm	9,17
CL10-285	Set di contrappesos cl285 (6pcs)	15,72
CL11-220	Asse trasversale per 220	18,49
CL11-285	Asse trasversale per 285	26,08
CL12HSS	Lama HSS per sega regolabile a compasso	21,15
CL12WID	Lama MD per sega regolabile a compasso	27,72
CL13-220	Punta pilota 220	17,64
CL13-285	Punta pilota 285	18,24
CL14	Punta Pilota HSS 285	20,00



SEGA REGOLABILE A COMPASSO DA Ø 410 mm

410 mm

CARTON GESSO



- Maggiore ampiezza dei diametri.
- Placchetta in metallo duro con geometria innovativa ad alta resistenza.
- Miglior finitura del foro.
- I pezzi di ricambio per le seghe regolabili da 160 mm, 220 mm, 260 mm e 285 mm sono validi per la CL410 ad eccezione dei contrappesi CL10G e CL10H.
- Lama CL12HSS installata







SEGA REGOLABILE A COMPASSO 410 mm

CL410
508,58 €

PEZZI DI RICAMBIO

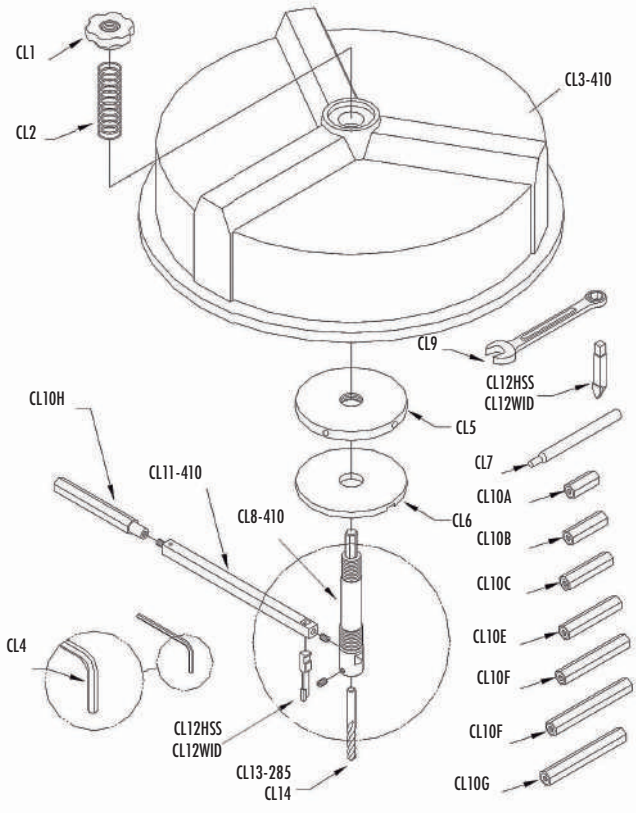


CL12HSS: Lama per intonaco, Pladur, contrasoffitti in generale, legno, pannello laminato, fenolico, ecc.



CL12WID: Lama da taglio in metallo fino a 1 mm di spessore.

	DESCRIPCIÓN	€
CL1	Bullone esagonale 220, 285 e 410	**9,49**
CL2	Molla di compressione 220, 285 e 410	**2,68**
CL3-410	Tazza con rotazione 410	**171,50**
CL4	Chiave allen 220/285 (3 mm)	**2,69**
CL5	Piatto di fissaggio 220, 285 e 410	**18,49**
CL6	Piatto regolazione 220, 285 e 410	**7,91**
CL7	Asta regolazione 220, 285 e 410	**5,35**
CL8-410	Asse verticale 410	**63,27**
CL9	Chiave combinata 220, 285 e 410	**7,91**
CL10A	Contrappeso p/cl220-cl285-cl410 di 33 mm	**3,80**
CL10B	Contrappeso p/cl220-cl285-cl410 di 40 mm	**4,32**
CL10C	Contrappeso p/cl220-cl285-cl410 di 56 mm	**5,02**
CL10E	Contrappeso p/cl285-cl410 de 95 mm	**6,91**
CL10F	Contrappeso p/cl285-cl410 de 120 mm	**9,17**
CL10G	Contrappeso p/cl410 de 145 mm	**11,34**
CL10H	Contrappeso p/cl410 de 175 mm	**14,34**
CL11-410	Asse trasversale per cl410	**37,84**
CL12HSS	Lama HSS per sega regolabile a compasso	**21,15**
CL12WID	Lama MD per sega regolabile a compasso	**27,72**
CL13-285	Punta pilota metallo duro 285 e 410	**18,24**
CL14	Punta pilota HSS 285 e 410	**20,00**



FRESA A TAZZA IN DIAMANTE PER CALCESTRUZZO ARMATO CON SISTEMA DI CAMBIO POLY-CLICK

Ref. **CDH**



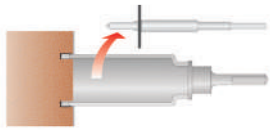
150 mm CAPACITÀ DI TAGLIO



- Lavorare sempre con acqua.
- Rimuovere la fresa a tazza dal foro in modalità a rotazione, altrimenti l'effetto leva generato distacca le placchette di diamante.
- Estrarre il punzone pilota una volta che la fresa a tazza ha penetrato il materiale.
- Moderare l'avanzamento assiale quando ci si avvicina all'asta.
- Alte velocità 2500 - 3000 R.P.M.
- Uso esclusivo a rotazione.



1- Utilizzare il punzone guida per iniziare la perforazione.



2- Estrarre il punzone quando la fresa a tazza ha penetrato leggermente.



	CDH	
	Ø mm	€
CDH29	29	**193,80** *
CDH32	32	**193,80** *
CDH35	35	**193,80** *
CDH38	38	**193,80** *
CDH45	45	**193,80** *
CDH50	50	**214,85** *
CDH65	65	**242,24** *
CDH70	70	**263,30** *
CDH75	75	**284,38** *
CDH90	90	**351,76** *
CDH100	100	**431,82** *
CDH120	120	**463,41** *
CDH170	170	**642,45** *
CDH220	220	**859,41** *

Il prezzo non include nè l'gambo nè il punzone pilota.

*Fino ad esaurimento scorte.

ACCESSORI

	DESCRIZIONE	INTERVALLO Ø mm	€
CDHAPH	Gambo esagonale corto 90mm	25 - 45	**210,64** *
CDHAPSDS	Gambo SDS PLUS corto 90mm	25 - 45	**210,64** *
CDHAPH300	Gambo SDS PLUS 300mm	25 - 45	**221,17** *
CDHAGH	Gambo esagonale corto 90mm	50 - 220	**242,24** *
CDHAGSDS	Gambo SDS PLUS corto 90mm	50 - 220	**242,24** *
CDHAGH300	Gambo esagonale Lt: 300 mm	50 - 220	**263,30** *
CDHBP	Punzone pilota	25 - 220	**29,48** *

*Fino ad esaurimento scorte.



TANICA DI REFRIGERAZIONE

	GBP
Capacità: 1,1 l.	**9,73 €**

BLUE-MASTER®
by celesa



UTENSILI IN POLLICI

PUNTE PER METALLO IN POLLICI

DIN 338



	BC2P			BC5P			BC95P		
	118° / 70 Kg/mm²			135° / 120 Kg/mm²			130° / INOX		
	HSS / OX		€	HSSCo / ORO		€	HSSCo / ORO OX		€
1/32"	BC2P1/32		2,28	BC5P1/32		2,79	BC95P1/32		3,09
3/64"	BC2P3/64		1,67	BC5P3/64		2,83	BC95P3/64		3,09
1/16"	BC2P1/16		1,41	BC5P1/16		2,89	BC95P1/16		3,09
5/64"	BC2P5/64		1,27	BC5P5/64		3,03	BC95P5/64		2,89
3/32"	BC2P3/32		1,41	BC5P3/32		2,98	BC95P3/32		2,89
7/64"	BC2P7/64		1,44	BC5P7/64		2,89	BC95P7/64		2,86
1/8"	BC2P1/8		1,40	BC5P1/8		2,77	BC95P1/8		2,84
9/64"	BC2P9/64		1,85	BC5P9/64		3,47	BC95P9/64		3,32
5/32"	BC2P5/32		1,91	BC5P5/32		3,47	BC95P5/32		3,72
11/64"	BC2P11/64		2,26	BC5P11/64		3,47	BC95P11/64		4,13
3/16"	BC2P3/16		2,05	BC5P3/16		3,62	BC95P3/16		4,39
13/64"	BC2P13/64		2,62	BC5P13/64		3,81	BC95P13/64		4,87
7/32"	BC2P7/32		3,41	BC5P7/32		5,31	BC95P7/32		5,13
15/64"	BC2P15/64		3,19	BC5P15/64		5,80	BC95P15/64		5,45
1/4"	BC2P1/4		2,96	BC5P1/4		5,95	BC95P1/4		5,92
17/64"	BC2P17/64		3,80	BC5P17/64		6,83	BC95P17/64		6,94
9/32"	BC2P9/32		5,77	BC5P9/32		9,03	BC95P9/32		8,06
19/64"	BC2P19/64		6,74	BC5P19/64		10,95	BC95P19/64		8,89
5/16"	BC2P5/16		6,16	BC5P5/16		10,92	BC95P5/16		9,46
21/64"	BC2P21/64		7,28	BC5P21/64		10,44	BC95P21/64		9,87
11/32"	BC2P11/32		6,98	BC5P11/32		12,46	BC95P11/32		12,58
23/64"	BC2P23/64		9,24	BC5P23/64		14,75	BC95P23/64		12,58
3/8"	BC2P3/8		6,36	BC5P3/8		10,80	BC95P3/8		13,01
25/64"	BC2P25/64		10,89	BC5P25/64		17,23	BC95P25/64		14,38
13/32"	BC2P13/32		10,89	BC5P13/32		19,95	BC95P13/32		14,38
27/64"	BC2P27/64		11,15	BC5P27/64		23,93	BC95P27/64		19,42
7/16"	BC2P7/16		13,49	BC5P7/16		26,29	BC95P7/16		21,42
29/64"	BC2P29/64		10,76	BC5P29/64		22,20	BC95P29/64		24,67
15/32"	BC2P15/32		14,49	BC5P15/32		27,26	BC95P15/32		26,45
31/64"	BC2P31/64		16,24	BC5P31/64		32,23	BC95P31/64		29,47
1/2"	BC2P1/2		15,32	BC5P1/2		33,07	BC95P1/2		29,92
33/64"	BC2P33/64		19,23	BC5P33/64		33,65			
17/32"	BC2P17/32		19,36	BC5P17/32		32,74			
35/64"	BC2P35/64		27,90	BC5P35/64		38,64			
9/16"	BC2P9/16		30,25	BC5P9/16		42,73			
37/64"	BC2P37/64		24,32	BC5P37/64		53,99			
19/32"	BC2P19/32		22,61	BC5P19/32		46,59			
39/64"	BC2P39/64		33,63	BC5P39/64		74,52			
5/8"	BC2P5/8		27,51	BC5P5/8		55,93			
*41/64"	BC2P41/64		32,11	BC5P41/64		59,25			
*21/32"	BC2P21/32		32,71	BC5P21/32		61,69			
*43/64"	BC2P43/64		32,75	BC5P43/64		64,96			
*11/16"	BC2P11/16		37,54	BC5P11/16		71,97			
*45/64"	BC2P45/64		41,42	BC5P45/64		76,08			
*23/32"	BC2P23/32		42,23	BC5P23/32		78,70			
*47/64"	BC2P47/64		44,10	BC5P47/64		86,57			
*3/4"	BC2P3/4		50,09	BC5P3/4		91,64			
*49/64"	BC2P49/64		51,80	BC5P49/64		98,61			
*25/32"	BC2P25/32		53,85	BC5P25/32		103,05			
*1"	BC2P1		108,81	BC5P1		217,87			

* Codolo ridotto 1/2"

10 Uds. Ø 1/32" -Ø 13/32"

6 Uds. Ø 27/64" -Ø 9/16"

1 Ud. Ø 37/64"-Ø 1"





Ref. **BC2P**



Ref. **BC5P**



Ref. **BC95P**



PUNTE PER METALLO IN POLLICE IN ASTUCCI DI METALLO E PLASTICA

DIN 338 **HSS**

(Punte Ref. BC2P)





REFERENZA	**DP7021**	**DP7029**
Nº PUNTE	21	29
QUALITÀ	HSS	HSS
CONTENUTO	Ø 1/16-3/8"	Ø 1/16-1/2"
P.V.P. €	**81,34**	**185,47**

DIN 338 **HSS**

(Punte Ref. BC2P)





REFERENZA	**PP7021**	**PP7029**
Nº PUNTE	21	29
QUALITÀ	HSS	HSS
CONTENUTO	Ø 1/16-3/8"	Ø 1/16-1/2"
P.V.P. €	**81,34**	**185,47**

HSSCo 5%

(Punte Ref. BC5P)





REFERENZA	**DCP7021**	**DCP7029**
Nº PUNTE	21	29
QUALITÀ	HSSCo	HSSCo
CONTENUTO	Ø 1/16-3/8"	Ø 1/16-1/2"
P.V.P. €	**136,86**	**340,03**

HSSCo 5%

(Punte Ref. BC5P)





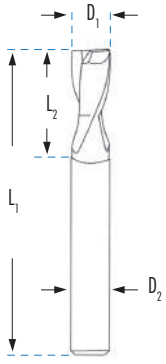
REFERENZA	**PCP7021**	**PCP7029**
Nº PUNTE	21	29
QUALITÀ	HSSCo	HSSCo
CONTENUTO	Ø 1/16-3/8"	Ø 1/16-1/2"
P.V.P. €	**136,86**	**340,03**

FRESE METALLO DURO IN POLLICI

INOX
Al
Ti

Ref. FMT48P
Ref. FMT2P

MD | 30° N | 44 HRc | CILINDRICO | TiAlSiN



4 Z | 2 Z



FMT48P FMT2P

D1	L2	D2	L1	FMT48P €	FMT2P €
1/32	3/32	1/8	1.1/2	38,85	41,09
3/64	1/8	1/8	1.1/2	41,09	41,09
1/16	1/4	1/8	1.1/2	32,90	32,90
5/64	1/4	1/8	1.1/2	32,15	32,15
3/32	3/8	1/8	1.1/2	27,08	27,08
7/64	3/8	1/8	1.1/2	27,08	27,08
1/8	1/2	1/8	1.1/2	27,08	27,08
9/64	9/16	3/16	2	30,85	30,85
5/32	9/16	3/16	2	30,85	30,85
11/64	9/16	3/16	2	30,85	30,85
3/16	5/8	3/16	2	38,95	38,95
13/64	5/8	1/4	2.1/2	45,24	45,24
7/32	5/8	1/4	2.1/2	45,24	45,24
15/64	3/4	1/4	2.1/2	45,24	45,24
1/4	3/4	1/4	2.1/2	43,36	43,36
17/64	7/8	5/16	2.1/2	59,98	59,98
9/32	7/8	5/16	2.1/2	59,98	59,98
19/64	7/8	5/16	2.1/2	59,98	59,98
5/16	7/8	5/16	2.1/2	52,03	52,03

D1	L2	D2	L1	FMT48P €	FMT2P €
21/64	7/8	3/8	2.1/2	84,33	84,33
11/32	7/8	3/8	2.1/2	84,33	84,33
23/64	7/8	3/8	2.1/2	84,33	84,33
3/8	7/8	3/8	2.1/2	82,93	82,93
25/64	7/8	7/16	2.1/2	111,25	111,25
13/32	7/8	7/16	2.1/2	111,25	111,25
27/64	7/8	7/16	2.1/2	111,25	111,25
7/16	1	7/16	2.1/2	111,25	111,25
29/64	1	1/2	3	122,15	122,15
15/32	1	1/2	3	122,15	122,15
31/64	1	1/2	3	122,15	122,15
1/2	1	1/2	3	111,03	111,03
9/16	1.1/4	9/16	3.1/2	162,80	162,80
5/8	1.1/4	5/8	3.1/2	213,63	213,63
3/4	1.1/2	3/4	4	312,93	312,93
7/8	1.1/2	7/8	4	306,02	306,02
1	1.1/2	1	4	461,81	461,81
1.1/4	2	1.1/4	4.1/2	2.208,02	2.208,02

* TiAlN su richiesta allo stesso prezzo

PUNTE PER EDILIZIA IN POLLICI

Ref. BW6P
Ref. BW1P

DIN 8039

SERIE PROFESSIONALE



Ref. BW6P

SERIE STANDARD



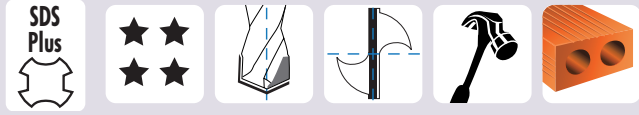
Ref. BW1P

	BW6P	€	BW1P	€
1/8"	BW6P1/8	2,26	BW1P1/8	1,17
5/32"	BW6P5/32	2,26	BW1P5/32	1,20
3/16"	BW6P3/16	2,70	BW1P3/16	1,28
1/4"	BW6P1/4	2,77	BW1P1/4	1,40
9/32"	BW6P9/32	3,00	BW1P9/32	1,71
5/16"	BW6P5/16	3,54	BW1P5/16	1,83
11/32"	BW6P11/32	4,75	BW1P11/32	2,17
3/8"	BW6P3/8	5,18	BW1P3/8	2,31
7/16"	BW6P7/16	7,63	BW1P7/16	3,22
15/32"	BW6P15/32	7,69	BW1P15/32	3,96
1/2"	BW6P1/2	11,35	BW1P1/2	4,55
*9/16"	BW6P9/16	10,42	BW1P9/16	5,55
*19/32"	BW6P19/32	14,66	BW1P19/32	7,03
*5/8"	BW6P5/8	12,50	BW1P5/8	8,12
*11/16"	BW6P11/16	17,99	BW1P11/16	9,72
*3/4"	BW6P3/4	22,19	BW1P3/4	11,85
*7/8"	BW6P7/8	30,58	BW1P7/8	14,71
*1"	BW6P1	46,72	BW1P1	20,09

* Codolo ridotto.1/2"

PUNTE PER EDILIZIA IN POLLICI

Ref. W05P





Ref. W05P



W05P

	L1 x L2"							
	4"x 2"	6"x 4"	8"x 6"	10"x 8"	12"x 10"	18"x 16"	24" x 22"	39" x 37"
D1	€	€	€	€	€	€	€	€
1/8 "	18,00	20,21						
9/64"	14,55	16,10						
5/32"	7,13	12,14						
13/64"	5,84	7,36	11,59		17,65			
7/32"	6,83	7,91	13,88	19,37				
15/64"	6,02	6,93	10,23	15,49		34,45		
1/4"	7,67	8,48	13,04	19,08	16,98			
9/32"	7,67	8,48	13,32	18,95	23,96	34,14		
5/16"	7,50	7,63	9,66	14,03	20,63	27,56	47,95	
23/64"		9,78	12,49	15,51				
3/8"		12,04						
25/64"	8,03	8,83	11,49	14,55	20,64	30,18	44,32	116,21
7/16"		11,72	14,25	16,04	22,45			
15/32"		10,62	13,08	15,77	22,77	28,96	43,42	109,57
1/2"		16,77	21,80	22,46	24,96	36,36		
35/64"		18,52	18,85	21,07	28,13	33,82	50,24	119,07
19/32"		19,35	23,12	25,06		41,18		
5/8"		21,21	23,60	25,96	29,38	40,22	54,01	135,19
43/64"			31,69					
45/64"			33,99	35,11	45,55	45,92	74,32	161,94
3/4"			38,26		48,30	52,65		
25/32"			38,65	39,86	47,23	59,42	82,33	170,45
7/8"				50,66	55,25	65,79	107,01	175,18
29/32"				61,08				
15/16"				61,08		81,70		
1"				74,10	73,33	79,73	109,36	191,89



W05P - 10 UNITÁ

	L1 x L2"		
	4"x 2"	6"x 4"	8"x 6"
D1	€	€	€
13/64"	52,56	66,24	
15/64"	54,18	62,37	92,07
5/16"	67,50	68,67	86,94
25/64"	72,27	79,47	103,41
15/32"		95,58	117,72



W05P - 50 UNITÁ

	L_1 x L_2"
	6"x 4"
D1	€
15/64"	294,53
5/16"	324,28



PUNTE PER EDILIZIA IN POLLICI

Ref. W55P







W55P

D1	L1 x L2" 4"x 2" €	6"x 4" €	8"x 6" €	10"x 8" €	12"x 10" €	18"x 16" €	24" x 22" €	32" x 30" €	39" x 37" €
13/64"	6,37	7,95	11,83	14,67	19,25				
15/64"	6,56	7,50	11,05	15,94	17,31	35,23			
1/4"	8,13	9,31	13,14	19,92	19,99				
5/16"	8,27	7,87	10,43	15,31	21,23	29,56	51,84		
25/64"	8,84	10,25	12,43	15,74	20,90	31,08	47,54	64,78	120,91
15/32"		11,58	14,26	17,20	23,88	32,35	46,95		111,78
35/64"		18,71	20,55	22,97	26,33	41,08	54,34		121,47
5/8"				28,08		45,97	58,41	74,47	137,91
45/64"				40,66		52,49	80,36		165,20
25/32"				44,90		67,95	89,01		173,87
7/8"				48,57		71,18	122,51		189,21
15/16"				57,12		88,38	127,71		202,12
1"				94,28		91,00	136,20		195,75
1.1/8"				162,18		172,55	176,82		202,12
1.3/16"				167,43		191,90	196,86		231,83

Ref. AXP





DISPONIBILE SOLO CON 2 PUNTI.

Ref. AXP



AXP

D1	L1 x L2" 12"x10" €	13"x11" €	20"x18" €	21"x19" €	28"x26" €	29"x27" €	36"x34" €	37"x35" €	52"x50" €	53"x51" €	59"x57" €
15/32"		71,22		83,94		118,75		155,09			
33/64"		78,54		98,86							
9/16"		77,40		94,77		132,87		171,30			
19/32"		81,23		98,80							
5/8"		96,99		110,03		130,06		163,09		361,03	
43/64"		102,69		117,28							
45/64"		101,74		119,44	142,80			165,48	368,12		
3/4"	108,96		121,85								
25/32"	102,33		121,85		163,52		173,06		394,82		
7/8"	113,38		130,34		167,11		179,70		400,95		
15/16"	118,46		138,76								377,34
1"	122,21		139,62		215,99		241,25		347,27		514,25
1.1/8"	153,36		189,78		221,56		259,12		449,73		588,36
1.1/4"	191,25		227,00		278,92		333,33		511,29		663,54
1.3/8"			254,42		257,73		354,90		524,65		
1.1/2"			318,36		345,36						
1.5/8"			344,12		359,97		475,36		557,51		709,70
1.3/4"			341,72								820,20
2"			460,16								

AXP

D1	L1 x L2" 23" €	39" €
1.3/4"	467,73	503,73
2.1/4"	523,54	575,18
2.1/2"	578,97	650,65
3.1/4"	677,48	792,07

BLUE-MASTER® by celesa





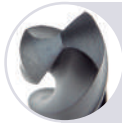
UTENSILI IN BLISTER E FONDINA



PUNTE ELICOIDALI CILINDRICHE DIN 338 IN BLISTER E FONDINA







Ref. BC2B
Ref. BC2F

DIN 338 | HSS | 118° | 30° "N" | OX | 70 Kg/mm²

Ø mm	L1 x L2 mm		BC2B €
1,00	34 x 12	2	4,66
1,50	40 x 18	2	4,37
2,00	49 x 24	2	4,01
2,50	57 x 30	2	4,10
3,00	61 x 33	2	4,37
3,30	65 x 36	2	4,97
3,50	70 x 39	2	4,32
4,00	75 x 43	2	4,56
4,20	75 x 43	1	3,27
4,50	80 x 47	1	3,31
5,00	86 x 52	1	3,39
5,50	93 x 57	1	4,31
5,75	93 x 57	1	5,06
6,00	93 x 57	1	4,21
6,50	101 x 63	1	4,65
6,75	109 x 69	1	6,00
7,00	109 x 69	1	5,58

Blister: 190x60 mm.

Ø mm	L1 x L2 mm		BC2B €
7,50	109 x 69	1	5,86
8,00	117 x 75	1	6,53
8,50	117 x 75	1	6,80
9,00	125 x 81	1	8,36
9,50	125 x 81	1	8,77
10,00	133 x 87	1	9,88
10,25	133 x 87	1	12,75
10,50	133 x 87	1	11,77
11,00	142 x 94	1	13,10
11,50	142 x 94	1	14,04
12,00	151 x 101	1	15,50
12,50	151 x 101	1	16,78
13,00	151 x 101	1	17,32
13,50	160 x 108	1	24,52
14,00	160 x 108	1	27,14

Blister: 230x60 mm.





Ø mm	L1 x L2 mm		BC2F €
1,00	34 x 12	2	3,80
1,50	40 x 18	2	3,05
2,00	49 x 24	2	2,79
2,50	57 x 30	2	3,22
3,00	61 x 33	2	3,17
3,25	65 x 36	2	3,64
3,50	70 x 39	2	3,49
4,00	75 x 43	2	3,77
4,25	75 x 43	1	2,29
4,50	80 x 47	1	2,40
5,00	86 x 52	1	2,46
5,25	86 x 52	1	3,38
5,50	93 x 57	1	3,24
5,75	93 x 57	1	4,35

Ø mm	L_1 x L_2 mm		BC2F €
6,00	93 x 57	1	3,37
6,50	101 x 63	1	3,72
6,75	109 x 69	1	4,82
7,00	109 x 69	1	4,64
7,50	109 x 69	1	4,76
8,00	117 x 75	1	5,57
8,50	117 x 75	1	5,90
9,00	125 x 81	1	7,60
9,50	125 x 81	1	8,30
10,00	133 x 87	1	8,67
10,50	133 x 87	1	10,78
11,00	142 x 94	1	12,34
12,00	151 x 101	1	14,81
13,00	151 x 101	1	16,99

Giri al minuto consigliato:

METALLO	Ø 2	Ø 4	Ø 6	Ø 8	Ø 10	Ø 12
Morbido	3000	1600	950	800	630	450
Medi ·	2200	1200	725	625	490	375
Duro	1400	800	500	450	350	300

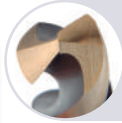
Su richiesta, possiamo fornire alle nostre carte un sistema antifurto per elettromagnetismo con un supplemento di 0,07 € NETTI per lettera, che può essere posizionato su tutti i pezzi o in modo casuale.



PUNTE ELICOIDALI CILINDRICHE DIN 338 IN BLISTER E FONDINA







Ref. BC02B
Ref. BC02F

DIN 338 | HSS-G Plus | 118° | 30° "N" | OX DORATO | 70 Kg/mm²

Ø mm	L1 x L2 mm		BC02B €
1,00	34 x 12	2	5,90
1,50	40 x 18	2	5,60
2,00	49 x 24	2	4,44
2,50	57 x 30	2	4,62
3,00	61 x 33	2	4,69
3,30	65 x 36	2	5,21
3,50	70 x 39	2	4,58
4,00	75 x 43	2	5,31
4,20	75 x 43	1	3,48
4,50	80 x 47	1	3,52
5,00	86 x 52	1	3,67
5,50	93 x 57	1	4,56
5,75	93 x 57	1	5,78
6,00	93 x 57	1	4,56
6,50	101 x 63	1	5,44
6,75	109 x 69	1	6,55
7,00	109 x 69	1	6,55

Blister: 190x60 mm.

Ø mm	L1 x L2 mm		BC02B €
7,50	109 x 69	1	6,49
8,00	117 x 75	1	7,05
8,50	117 x 75	1	8,23
9,00	125 x 81	1	9,20
9,50	125 x 81	1	9,81
10,00	133 x 87	1	10,85
10,25	133 x 87	1	15,55
10,50	133 x 87	1	12,66
11,00	142 x 94	1	14,46
11,50	142 x 94	1	15,36
12,00	151 x 101	1	16,95
12,50	151 x 101	1	18,26
13,00	151 x 101	1	19,20
13,50	160 x 108	1	26,26
14,00	160 x 108	1	29,44

Blister: 230x60 mm.





Ø mm	L1 x L2 mm		BC02F €
1,00	34 x 12	2	4,75
1,50	40 x 18	2	4,39
2,00	49 x 24	2	3,59
2,50	57 x 30	2	4,14
3,00	61 x 33	2	3,59
3,25	65 x 36	2	3,91
3,50	70 x 39	2	3,91
4,00	75 x 43	2	4,45
4,25	75 x 43	1	2,51
4,50	80 x 47	1	2,58
5,00	86 x 52	1	2,77
5,25	86 x 52	1	3,72
5,50	93 x 57	1	3,62
5,75	93 x 57	1	4,84

Ø mm	L1 x L2 mm		BC02F €
6,00	93 x 57	1	3,83
6,50	101 x 63	1	4,41
6,75	109 x 69	1	5,45
7,00	109 x 69	1	5,23
7,50	109 x 69	1	5,45
8,00	117 x 75	1	6,33
8,50	117 x 75	1	6,95
9,00	125 x 81	1	8,50
9,50	125 x 81	1	9,20
10,00	133 x 87	1	9,95
10,50	133 x 87	1	12,12
11,00	142 x 94	1	13,97
12,00	151 x 101	1	16,44
13,00	151 x 101	1	18,82

Giri al minuto consigliato:

METALLO	Ø 2	Ø 4	Ø 6	Ø 8	Ø 10	Ø 12
Morbido	3000	1600	950	800	630	450
Medi ·	2200	1200	725	625	490	375
Duro	1400	800	500	450	350	300

Su richiesta, possiamo fornire alle nostre carte un sistema antifurto per elettromagnetismo con un supplemento di 0,07 € NETTI per lettera, che può essere posizionato su tutti i pezzi o in modo casuale.



PUNTE ELICOIDALI CILINDRICHE DIN 338 IN BLISTER E FONDINA







Ref. BC5B
Ref. BC5F

DIN 338 | HSSCo 5% | 135° | 30° "N" | DORATO | 120 Kg/mm²

Ø mm	L1 x L2 mm		BC5B €
1,00	34 x 12	2	6,66
1,50	40 x 18	2	5,92
2,00	49 x 24	2	6,04
2,50	57 x 30	2	6,47
3,00	61 x 33	2	6,25
3,30	65 x 36	2	7,28
3,50	70 x 39	2	7,47
4,00	75 x 43	2	7,72
4,20	75 x 43	1	4,77
4,50	80 x 47	1	5,08
5,00	86 x 52	1	5,07
5,50	93 x 57	1	6,18
5,75	93 x 57	1	6,82
6,00	93 x 57	1	6,54
6,50	101 x 63	1	7,67
6,75	109 x 69	1	8,82
7,00	109 x 69	1	8,41

Blister: 190x60 mm.

Ø mm	L1 x L2 mm		BC5B €
7,50	109 x 69	1	9,25
8,00	117 x 75	1	10,29
8,50	117 x 75	1	11,21
9,00	125 x 81	1	13,56
9,50	125 x 81	1	13,66
10,00	133 x 87	1	15,23
10,25	133 x 87	1	24,93
10,50	133 x 87	1	21,68
11,00	142 x 94	1	23,97
11,50	142 x 94	1	27,60
12,00	151 x 101	1	29,34
12,50	151 x 101	1	35,52
13,00	151 x 101	1	35,99
13,50	160 x 108	1	39,48
14,00	160 x 108	1	39,50

Blister: 230x60 mm.





Ø mm	L1 x L2 mm		BC5F €
1,00	34 x 12	2	5,73
1,50	40 x 18	2	5,21
2,00	49 x 24	2	5,28
2,50	57 x 30	2	5,56
3,00	61 x 33	2	5,32
3,25	65 x 36	2	6,59
3,50	70 x 39	2	6,54
4,00	75 x 43	2	6,88
4,25	75 x 43	1	3,97
4,50	80 x 47	1	4,07
5,00	86 x 52	1	4,14
5,25	86 x 52	1	5,06
5,50	93 x 57	1	5,28
5,75	93 x 57	1	5,95

Ø mm	L1 x L2 mm		BC5F €
6,00	93 x 57	1	5,64
6,50	101 x 63	1	6,53
6,75	109 x 69	1	7,66
7,00	109 x 69	1	7,20
7,50	109 x 69	1	7,58
8,00	117 x 75	1	8,94
8,50	117 x 75	1	9,25
9,00	125 x 81	1	11,99
9,50	125 x 81	1	12,34
10,00	133 x 87	1	13,47
10,50	133 x 87	1	19,41
11,00	142 x 94	1	21,05
12,00	151 x 101	1	26,54
13,00	151 x 101	1	33,50

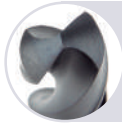
Giri al minuto consigliato:

METALLO	Ø 2	Ø 4	Ø 6	Ø 8	Ø 10	Ø 12
Morbido	4000	2000	1300	1000	800	700
Medi ·	3200	1600	1000	800	650	550
Duro	2300	1100	1700	600	475	350

Su richiesta, possiamo fornire alle nostre carte un sistema antifurto per elettromagnetismo con un supplemento di 0,07 € NETTI per lettera, che può essere posizionato su tutti i pezzi o in modo casuale.



PUNTE ELICOIDALI CILINDRICHE CON CODOLO RIDOTTO IN CONTENITORE TELESCOPICO



Ref. BC9P | DIN 338 | HSS | 118° | 30° "N" | OX | 70 Kg/mm² | 12,70





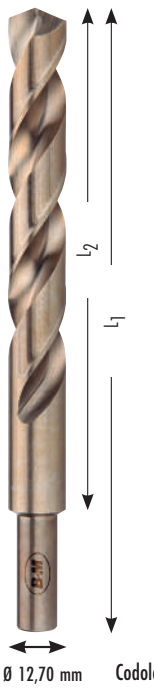
	Ø mm	$L_1 \times L_2$ mm		BC9P €
14x169mm	13,50	160 x 108	1	32,45
	14,00	160 x 108	1	34,45
	14,50	169 x 114	1	37,27
Quadro pack: 20x205 mm	15,00	169 x 114	1	37,62
	15,50	178 x 120	1	43,44
	16,00	178 x 120	1	45,03
	16,50	184 x 125	1	50,44
	17,00	184 x 125	1	50,44
	17,50	191 x 130	1	57,38
	18,00	191 x 130	1	60,50
	18,50	198 x 135	1	64,65
	19,00	198 x 135	1	64,65
	19,50	205 x 140	1	70,35
	20,00	205 x 140	1	74,12
	20,50	205 x 140	1	88,02
	21,00	205 x 140	1	74,69

	Ø mm	$L_1 \times L_2$ mm		BC9P €
Quadro pack: 26x258 mm	21,50	209 x 140	1	89,40
	22,00	209 x 140	1	83,20
	22,50	214 x 140	1	88,97
	23,00	214 x 140	1	92,86
	23,50	220 x 145	1	98,19
	24,00	220 x 145	1	97,10
	24,50	225 x 150	1	104,62
	25,00	225 x 150	1	106,17
	26,00	243 x 157	1	140,07
32x273 mm	27,00	243 x 157	1	150,44
	28,00	253 x 167	1	155,66
	29,00	253 x 167	1	182,72
	30,00	258 x 171	1	192,06

Giri al minuto consigliato:

METALLO	Ø 14	Ø 15	Ø 16	Ø 18	Ø 20
Morbido	429	400	375	333	300
Medi ·	314	293	275	244	220
Duro	200	200	175	156	140







Ref. BC99P | DIN 338 | HSSCo 5% | 135° | 30° "N" | DORATO | 120 Kg/mm² | 12,70

	Ø mm	$L_1 \times L_2$ mm		BC99P €
14x169mm	13,50	160 x 108	1	53,06
	14,00	160 x 108	1	57,23
	14,50	169 x 114	1	73,50
Quadro pack: 20x205 mm	15,00	169 x 114	1	76,74
	15,50	178 x 120	1	83,25
	16,00	178 x 120	1	85,76
	16,50	184 x 125	1	97,81
	17,00	184 x 125	1	97,55
	17,50	191 x 130	1	105,85
	18,00	191 x 130	1	116,45
	18,50	198 x 135	1	129,94
	19,00	198 x 135	1	128,81
	19,50	205 x 140	1	142,73
	20,00	205 x 140	1	152,92

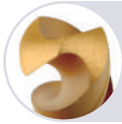
Giri al minuto consigliato:

METALLO	Ø 14	Ø 15	Ø 16	Ø 18	Ø 20
Morbido	571	533	500	444	400
Medi ·	457	427	400	356	320
Duro	329	287	271	256	230

Su richiesta, possiamo fornire alle nostre carte un sistema antifurto per elettromagnetismo con un supplemento di 0,07 € NETTI per lettera, che può essere posizionato su tutti i pezzi o in modo casuale.



PUNTE ELICOIDALI CILINDRICHE DIN 338 IN BLISTER E FONDINA



Ref. BC18B
Ref. BC18F

DIN 338 | HSS | 118° | 30° "N" | TiN | ALTA PRODUZIONE





BC18B

Ø mm	L1 x L2 mm		€
1,00	34 x 12	2	5,86
1,50	40 x 18	2	5,21
2,00	49 x 24	2	4,73
2,50	57 x 30	2	5,43
3,00	61 x 33	2	5,08
3,30	65 x 36	2	6,14
3,50	70 x 39	2	5,94
4,00	75 x 43	2	6,62
4,20	75 x 43	1	4,13
4,50	80 x 47	1	4,06
5,00	86 x 52	1	4,07
5,50	93 x 57	1	4,72
5,75	93 x 57	1	5,42
6,00	93 x 57	1	4,67
6,50	101 x 63	1	7,26
6,75	109 x 69	1	8,91
7,00	109 x 69	1	7,58

Blister: 190x60 mm.

BC18B

Ø mm	L1 x L2 mm		€
7,50	109 x 69	1	9,08
8,00	117 x 75	1	9,37
8,50	117 x 75	1	10,31
9,00	125 x 81	1	11,33
9,50	125 x 81	1	11,92
10,00	133 x 87	1	12,25
10,25	133 x 87	1	20,91
10,50	133 x 87	1	17,39
11,00	142 x 94	1	18,23
11,50	142 x 94	1	19,28
12,00	151 x 101	1	20,88
12,50	151 x 101	1	23,30
13,00	151 x 101	1	25,44
13,50	160 x 108	1	32,11
14,00	160 x 108	1	33,16

Blister: 230x60 mm.





BC18F

Ø mm	L_1 x L_2 mm		€
1,00	34 x 12	2	5,29
1,50	40 x 18	2	4,66
2,00	49 x 24	2	4,05
2,50	57 x 30	2	4,79
3,00	61 x 33	2	4,34
3,25	65 x 36	2	5,78
3,50	70 x 39	2	5,15
4,00	75 x 43	2	5,78
4,25	75 x 43	1	3,25
4,50	80 x 47	1	3,19
5,00	86 x 52	1	3,22
5,25	86 x 52	1	3,92
5,50	93 x 57	1	3,83
5,75	93 x 57	1	4,70

BC18F

Ø mm	L_1 x L_2 mm		€
6,00	93 x 57	1	3,87
6,50	101 x 63	1	6,49
6,75	109 x 69	1	7,84
7,00	109 x 69	1	6,94
7,50	109 x 69	1	8,04
8,00	117 x 75	1	8,49
8,50	117 x 75	1	9,45
9,00	125 x 81	1	10,44
9,50	125 x 81	1	11,38
10,00	133 x 87	1	11,72
10,50	133 x 87	1	16,72
11,00	142 x 94	1	17,55
12,00	151 x 101	1	20,18
13,00	151 x 101	1	24,74

Giri al minuto consigliato:

METALLO	Ø 2	Ø 4	Ø 6	Ø 8	Ø 10	Ø 12
Morbido	4500	2400	1425	1200	950	675
Medi ·	3300	1800	1100	950	735	560
Duro	2100	1200	750	675	525	450

Su richiesta, possiamo fornire alle nostre carte un sistema antifurto per elettromagnetismo con un supplemento di 0,07 € NETTI per lettera, che può essere posizionato su tutti i pezzi o in modo casuale.



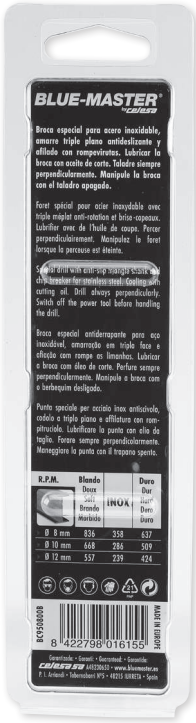
PUNTE ELICOIDALI CILINDRICHE DIN 338 IN BLISTER E FONDINA



Ref. BC95B

DIN 338 | HSSCo 5% | 130° | Ø ≥ 3 | OX DORATO | INOX





Ø mm	L1 x L2 mm		BC95B €
1,00	34 x 12	2	7,97
1,50	40 x 18	2	7,59
2,00	49 x 24	2	7,59
2,50	57 x 30	2	7,24
3,00	61 x 33	2	7,08
3,20	65 x 36	2	8,42
3,30	65 x 36	2	8,44
3,50	70 x 39	2	8,27
4,00	75 x 43	2	8,91
4,20	75 x 43	1	4,99
4,50	80 x 47	1	4,99
5,00	86 x 52	1	5,35
5,50	93 x 57	1	6,75
6,00	93 x 57	1	7,19
6,50	101 x 63	1	8,11
6,80	109 x 69	1	9,38
7,00	109 x 69	1	8,84

Blister: 190x60 mm.

Ø mm	L1 x L2 mm		BC95B €
7,50	109 x 69	1	9,42
8,00	117 x 75	1	11,03
8,50	117 x 75	1	11,53
9,00	125 x 81	1	14,67
9,50	125 x 81	1	16,90
10,00	133 x 87	1	18,24
10,20	133 x 87	1	23,63
10,50	133 x 87	1	23,63
11,00	142 x 94	1	25,68
11,50	142 x 94	1	28,96
12,00	151 x 101	1	30,77
12,50	151 x 101	1	33,92
13,00	151 x 101	1	34,38

Blister: 230x60 mm.





Ø mm	L1 x L2 mm		BC95F €
1,00	34 x 12	2	6,72
1,50	40 x 18	2	6,42
2,00	49 x 24	2	6,42
2,50	57 x 30	2	6,39
3,00	61 x 33	2	6,22
3,20	65 x 36	2	7,50
3,30	65 x 36	2	7,73
3,50	70 x 39	2	7,50
4,00	75 x 43	2	8,19
4,20	75 x 43	1	4,56
4,50	80 x 47	1	4,56
5,00	86 x 52	1	4,87
5,50	93 x 57	1	6,17
6,00	93 x 57	1	6,56
6,50	101 x 63	1	7,65

Ø mm	L1 x L2 mm		BC95F €
6,80	109 x 69	1	9,00
7,00	109 x 69	1	8,38
7,50	109 x 69	1	8,89
8,00	117 x 75	1	10,41
8,50	117 x 75	1	10,89
9,00	125 x 81	1	13,85
9,50	125 x 81	1	14,35
10,00	133 x 87	1	15,79
10,20	133 x 87	1	21,30
10,50	133 x 87	1	21,31
11,00	142 x 94	1	23,54
11,50	142 x 94	1	27,09
12,00	151 x 101	1	29,04
12,50	151 x 101	1	32,66
13,00	151 x 101	1	33,15

Su richiesta, possiamo fornire alle nostre carte un sistema antifurto per elettromagnetismo con un supplemento di 0,07 € NETTI per lettera, che può essere posizionato su tutti i pezzi o in modo casuale.



PUNTA XTURBO CON GUIDA DI CENTRAGGIO IN BLISTER E FONDINA




Ref. BTX | DIN 338 | HSSCo 5% | TOL H8 | 120 Kg/mm² | Ø ≥ 3 | 135° | 38° "S" | INOX | TURBO



Ø mm	L1 x L2 mm		BTXB €
3,00	61 x 33	1	3,21
3,20	65 x 36	1	3,92
3,30	65 x 36	1	3,93
3,50	70 x 39	1	3,87
4,00	75 x 43	1	4,16
4,20	75 x 43	1	4,70
4,50	80 x 47	1	4,58
5,00	86 x 52	1	5,37
5,50	93 x 57	1	6,81
6,00	93 x 57	1	7,25
6,50	101 x 63	1	8,47
6,80	109 x 69	1	9,84
7,00	109 x 69	1	9,25

Blister: 190x60 mm.

Ø mm	L1 x L2 mm		BTXB €
7,50	109 x 69	1	9,81
8,00	117 x 75	1	11,51
8,50	117 x 75	1	12,00
9,00	125 x 81	1	14,72
9,50	125 x 81	1	15,45
10,00	133 x 87	1	17,01
10,20	133 x 87	1	22,06
10,50	133 x 87	1	22,07
11,00	142 x 94	1	24,36
11,50	142 x 94	1	27,35
12,00	151 x 101	1	29,31
12,50	151 x 101	1	36,39
13,00	151 x 101	1	36,93

Blister: 230x60 mm.





Ø mm	L1 x L2 mm		BTXF €
3,00	61 x 33	1	2,72
3,20	65 x 36	1	3,33
3,30	65 x 36	1	3,34
3,50	70 x 39	1	3,28
4,00	75 x 43	1	3,55
4,20	75 x 43	1	3,99
4,50	80 x 47	1	4,01
5,00	86 x 52	1	4,80
5,50	93 x 57	1	6,09
6,00	93 x 57	1	6,48
6,50	101 x 63	1	7,56
6,80	109 x 69	1	8,79
7,00	109 x 69	1	8,26

Ø mm	L1 x L2 mm		BTXF €
7,50	109 x 69	1	8,77
8,00	117 x 75	1	10,27
8,50	117 x 75	1	10,71
9,00	125 x 81	1	13,66
9,50	125 x 81	1	14,12
10,00	133 x 87	1	15,54
10,20	133 x 87	1	20,99
10,50	133 x 87	1	21,00
11,00	142 x 94	1	23,18
11,50	142 x 94	1	26,69
12,00	151 x 101	1	28,60
12,50	151 x 101	1	34,91
13,00	151 x 101	1	35,43

Su richiesta, possiamo fornire alle nostre carte un sistema antifurto per elettromagnetismo con un supplemento di 0,07 € NETTI per lettera, che può essere posizionato su tutti i pezzi o in modo casuale.



PUNTA TTURBO CON GUIDA DI CENTRAGGIO IN BLISTER E FONDINA



Ref. TTX

DIN 338 | HSS | TOL H8 | 80 Kg/mm² | Ø ≥ 3 | 135° | 38° "S" | TiAlSiN | TURBO





Ø mm	L1 x L2 mm		TTXB €
3,00	61 x 33	1	3,05
3,20	65 x 36	1	3,73
3,30	65 x 36	1	3,74
3,50	70 x 39	1	3,69
4,00	75 x 43	1	3,94
4,20	75 x 43	1	4,47
4,50	80 x 47	1	4,35
5,00	86 x 52	1	5,10
5,50	93 x 57	1	6,48
6,00	93 x 57	1	6,88
6,50	101 x 63	1	8,03
6,80	109 x 69	1	9,35
7,00	109 x 69	1	8,80

Blister: 190x60 mm.

Ø mm	L1 x L2 mm		TTXB €
7,50	109 x 69	1	9,32
8,00	117 x 75	1	10,94
8,50	117 x 75	1	11,41
9,00	125 x 81	1	13,97
9,50	125 x 81	1	14,69
10,00	133 x 87	1	16,17
10,20	133 x 87	1	20,94
10,50	133 x 87	1	20,95
11,00	142 x 94	1	23,14
11,50	142 x 94	1	25,98
12,00	151 x 101	1	27,85
12,50	151 x 101	1	34,57
13,00	151 x 101	1	35,07

Blister: 230x60 mm.





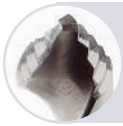
Ø mm	L1 x L2 mm		TTXF €
3,00	61 x 33	1	2,49
3,20	65 x 36	1	3,04
3,30	65 x 36	1	3,05
3,50	70 x 39	1	3,00
4,00	75 x 43	1	3,26
4,20	75 x 43	1	3,65
4,50	80 x 47	1	3,66
5,00	86 x 52	1	4,37
5,50	93 x 57	1	5,54
6,00	93 x 57	1	5,88
6,50	101 x 63	1	6,87
6,80	109 x 69	1	8,00
7,00	109 x 69	1	7,52

Ø mm	L1 x L2 mm		TTXF €
7,50	109 x 69	1	7,97
8,00	117 x 75	1	9,36
8,50	117 x 75	1	9,68
9,00	125 x 81	1	12,31
9,50	125 x 81	1	12,74
10,00	133 x 87	1	14,04
10,20	133 x 87	1	18,92
10,50	133 x 87	1	18,93
11,00	142 x 94	1	20,91
11,50	142 x 94	1	24,06
12,00	151 x 101	1	25,80
12,50	151 x 101	1	31,47
13,00	151 x 101	1	31,94

Su richiesta, possiamo fornire alle nostre carte un sistema antifurto per elettromagnetismo con un supplemento di 0,07 € NETTI per lettera, che può essere posizionato su tutti i pezzi o in modo casuale.



PUNTA STEP CUT FACILE FORATURA SU SUPERFICI CURVATE E INSTABILI



Ref. TK02B
Ref. TK02F

DIN 338 | HSS | Ø≥2,5mm | Ø≥4 | Al | Cu-Ni-Zn | PVC





Ø mm	L1 x L2 mm		TK02B €
1,00	34 x 12	1	5,09
1,50	40 x 18	1	5,19
2,00	49 x 24	1	5,33
2,50	57 x 30	1	5,94
3,00	61 x 33	1	6,15
3,50	70 x 39	1	7,02
4,00	75 x 43	1	8,01
4,50	80 x 47	1	8,64
5,00	76 x 52	1	9,65
5,50	93 x 57	1	10,11
6,00	93 x 57	1	10,86
6,50	101 x 63	1	12,37
7,00	109 x 69	1	13,89

Blister: 190x60 mm.

Ø mm	L1 x L2 mm		TK02B €
7,50	109 x 69	1	15,94
8,00	117 x 75	1	16,85
8,50	117 x 75	1	19,58
9,00	125 x 81	1	21,39
9,50	125 x 81	1	22,90
10,00	133 x 87	1	24,27
10,50	133 x 87	1	26,80
11,00	142 x 94	1	29,30
11,50	142 x 94	1	32,74
12,00	151 x 101	1	35,37
12,50	151 x 101	1	38,16
13,00	151 x 101	1	40,78

Blister: 230x60 mm.





Ø mm	L1 x L2 mm		TK02F €
1,00	34 x 12	1	4,18
1,50	40 x 18	1	4,28
2,00	49 x 24	1	4,42
2,50	57 x 30	1	5,03
3,00	61 x 33	1	5,23
3,50	70 x 39	1	6,11
4,00	75 x 43	1	7,10
4,50	80 x 47	1	7,75
5,00	76 x 52	1	8,98
5,50	93 x 57	1	9,44
6,00	93 x 57	1	10,20
6,50	101 x 63	1	11,70

Ø mm	L1 x L2 mm		TK02F €
7,00	109 x 69	1	13,22
7,50	109 x 69	1	15,27
8,00	117 x 75	1	15,96
8,50	117 x 75	1	18,69
9,00	125 x 81	1	20,50
9,50	125 x 81	1	22,02
10,00	133 x 87	1	23,39
10,50	133 x 87	1	25,35
11,00	142 x 94	1	28,19
11,50	133 x 87	1	30,52
12,00	151 x 101	1	33,14
12,50	151 x 101	1	35,72
13,00	151 x 101	1	38,34

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PUNTA STEP CUT FACILE FORATURA SU SUPERFICI CURVATE E INSTABILI



Ref. TK05B
Ref. TK05F

DIN 338 | HSSCo 5% | Ø≥3mm | Ø≥5 | INOX | GHISA | Cu-Ni-Zn | PVC | STEP CUT





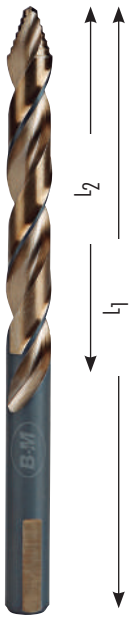
Ø mm	L1 x L2 mm		€
			TK05B
1,00	34 x 12	1	6,28
1,50	40 x 18	1	6,43
2,00	49 x 24	1	6,62
2,50	57 x 30	1	7,43
3,00	61 x 33	1	7,72
3,50	70 x 39	1	8,90
4,00	75 x 43	1	10,24
4,50	80 x 47	1	11,08
5,00	76 x 52	1	12,40
5,50	93 x 57	1	13,03
6,00	93 x 57	1	13,13
6,50	101 x 63	1	15,01
7,00	109 x 69	1	16,92

Blister: 190x60 mm.

Ø mm	L1 x L2 mm		€
			TK05B
7,50	109 x 69	1	19,48
8,00	117 x 75	1	20,50
8,50	117 x 75	1	23,92
9,00	125 x 81	1	26,18
9,50	125 x 81	1	28,08
10,00	133 x 87	1	27,58
10,50	133 x 87	1	30,39
11,00	142 x 94	1	33,29
11,50	142 x 94	1	37,07
12,00	151 x 101	1	40,08
12,50	151 x 101	1	43,18
13,00	151 x 101	1	46,20

Blister: 230x60 mm.





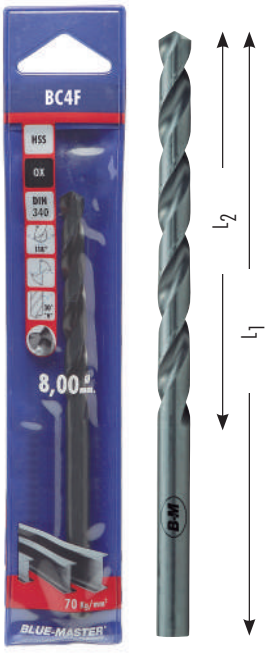
Ø mm	L1 x L2 mm		€
			TK05F
1,00	34 x 12	1	5,37
1,50	40 x 18	1	5,51
2,00	49 x 24	1	5,71
2,50	57 x 30	1	6,52
3,00	61 x 33	1	6,81
3,20	65 x 36	1	7,91
3,50	70 x 39	1	7,99
4,00	75 x 43	1	9,33
4,20	75 x 43	1	9,92
4,50	80 x 47	1	10,19
5,00	76 x 52	1	11,73
5,50	93 x 57	1	12,36
6,00	93 x 57	1	12,46
6,50	101 x 63	1	14,35

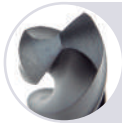
Ø mm	L1 x L2 mm		€
			TK05F
6,80	109 x 69	1	15,48
7,00	109 x 69	1	16,25
7,50	109 x 69	1	18,82
8,00	117 x 75	1	19,62
8,50	117 x 75	1	23,04
9,00	125 x 81	1	25,29
9,50	125 x 81	1	27,19
10,00	133 x 87	1	27,45
10,20	133 x 87	1	26,69
10,50	133 x 87	1	28,95
11,00	142 x 94	1	32,18
11,50	142 x 94	1	34,84
12,00	151 x 101	1	37,86
12,50	151 x 101	1	40,73
13,00	151 x 101	1	43,76

Su richiesta, possiamo fornire alle nostre carte un sistema antifurto per elettromagnetismo con un supplemento di 0,07 € NETTI per lettera, che può essere posizionato su tutti i pezzi o in modo casuale.



PUNTE ELICOIDALI CILINDRICHE DIN 338 IN FONDINA





DIN 340 | HSS | 118° | 30° "N" | OX | 70 Kg/mm²

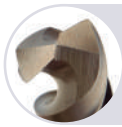
Giri al minuto consigliato:

METALLO	Morbido	Medi	Duro
Ø 2 mm	3000	2200	1400
Ø 4 mm	1600	1200	800
Ø 6 mm	950	725	500
Ø 8 mm	800	625	450
Ø 10 mm	630	490	350
Ø 12 mm	450	375	300

Ø mm	L1 x L2 mm		BC4F €
1,00	56 x 33	1	5,70
1,50	70 x 45	1	4,06
2,00	85 x 56	1	2,83
2,50	95 x 62	1	3,31
3,00	100 x 66	1	3,03
3,25	106 x 69	1	3,19
3,50	112 x 73	1	3,06
4,00	119 x 78	1	3,31
4,25	119 x 78	1	4,33
4,50	126 x 82	1	4,08
5,00	132 x 87	1	4,19
5,25	132 x 87	1	6,97
5,50	139 x 91	1	5,67
5,75	139 x 91	1	7,40

Ø mm	L1 x L2 mm		BC4F €
6,00	139 x 91	1	5,17
6,50	148 x 97	1	6,71
6,75	156 x 102	1	8,20
7,00	156 x 102	1	7,76
7,50	156 x 102	1	8,40
8,00	165 x 109	1	9,09
8,50	165 x 109	1	10,42
9,00	175 x 115	1	11,33
9,50	175 x 115	1	11,35
10,00	184 x 121	1	12,59
10,50	184 x 121	1	16,73
11,00	195 x 128	1	17,91
12,00	205 x 134	1	20,79
13,00	205 x 134	1	24,83





DIN 338 | HSSCo 8% | 135° | 30° "N" | DORATO | 120 Kg/mm²

Giri al minuto consigliato:

METALLO	Morbido	Medi	Duro
Ø 2 mm	4000	3200	2300
Ø 4 mm	2000	1600	1100
Ø 6 mm	1300	1000	1700
Ø 8 mm	1000	800	600
Ø 10 mm	800	650	475
Ø 12 mm	700	550	350

Ø mm	L1 x L2 mm		BC58F €
1,00	34 x 12	2	8,69
1,50	40 x 18	2	8,22
2,00	49 x 24	2	8,22
2,50	57 x 30	2	7,87
3,00	61 x 33	2	7,62
3,25	65 x 36	2	9,68
3,50	70 x 39	2	9,51
4,00	75 x 43	2	10,26
4,25	75 x 43	1	5,93
4,50	80 x 47	1	5,93
5,00	86 x 52	1	6,43
5,25	86 x 52	1	7,47
5,50	93 x 57	1	7,97
5,75	93 x 57	1	8,83

Ø mm	L1 x L2 mm		BC58F €
6,00	93 x 57	1	8,45
6,50	101 x 63	1	9,79
6,75	109 x 69	1	11,43
7,00	109 x 69	1	10,28
7,50	109 x 69	1	10,95
8,00	117 x 75	1	12,26
8,50	117 x 75	1	12,73
9,00	125 x 81	1	16,51
9,50	125 x 81	1	17,01
10,00	133 x 87	1	18,70
10,50	133 x 87	1	27,01
11,00	142 x 94	1	29,69
12,00	151 x 101	1	40,31
13,00	151 x 101	1	51,02

Su richiesta, possiamo fornire alle nostre carte un sistema antifurto per elettromagnetismo con un supplemento di 0,07 € NETTI per lettera, che può essere posizionato su tutti i pezzi o in modo casuale.



ASTUCCI DI PUNTE PER METALLO CON E SENZA BLISTER

HSS











Cont.	19 Un. - Ø 1 - 10 x 0,50 mm.	19 Un. - Ø 1 - 10 x 0,50 mm.	25 Un. - Ø 1 - 13 x 0,50 mm.	25 Un. - Ø 1 - 13 x 0,50 mm.
	P0010B 72,25 €	P0010 65,47 €	P0011B 144,25 €	P0011 136,22 €

Plus











Cont.	19 Un. - Ø 1 - 10 x 0,50 mm.	19 Un. - Ø 1 - 10 x 0,50 mm.	25 Un. - Ø 1 - 13 x 0,50 mm.	25 Un. - Ø 1 - 13 x 0,50 mm.
	PP010B 83,25 €	PP010 74,02 €	PP011B 160,72 €	PP011 153,13 €

HSSCo 5%











Cont.	19 Un. - Ø 1 - 10 x 0,50 mm.	19 Un. - Ø 1 - 10 x 0,50 mm.	25 Un. - Ø 1 - 13 x 0,50 mm.	25 Un. - Ø 1 - 13 x 0,50 mm.
	PC010B 117,83 €	PC010 109,41 €	PC011B 245,36 €	PC011 237,33 €

HSS



Cont.	15 (Ref. BC2) HSS
	Ø 1,5(x2) - 2(x2) - 2,5(x2) - 3 - 3,2 - 3,5 - 4 - 4,5 - 5 - 6 - 8 - 10mm
	P0015B 36,55 €

Plus



	15 (Ref. BC02) Plus
	Ø 1,5(x2) - 2(x2) - 2,5(x2) - 3 - 3,2 - 3,5 - 4 - 4,5 - 5 - 6 - 8 - 10mm
	PP015B 40,05 €

HSSCo 5%



	15 (Ref. BC5) HSSCo 5%
	Ø 1,5(x2) - 2(x2) - 2,5(x2) - 3 - 3,2 - 3,5 - 4 - 4,5 - 5 - 6 - 8 - 10mm
	PC015B 61,11 €

ESPOSITORI DI PUNTE ELICOIDALI CILINDRICHE DIN 338



HSS — PUNTE HSS IN BLISTER

Punte BC2B

11,00 / 5	11,50 / 5	12,00 / 5	13,00 / 5	14,00 / 5
9,00 / 5	9,50 / 5	10,00 / 5	10,25 / 5	10,50 / 5
6,75 / 5	7,00 / 5	7,50 / 5	8,00 / 10	8,50 / 5
5,00 / 10	5,50 / 10	5,75 / 5	6,00 / 10	6,50 / 5
3,30 / 5	3,50 / 10	4,00 / 10	4,20 / 5	4,50 / 10
1,00 / 10	1,50 / 10	2,00 / 10	2,50 / 10	3,00 / 10



515 mm
330 mm (x2)
360 mm

Ref. 1-62

1.425,50 €



Ref. BC2B

HSS — PUNTE HSS IN FONDINA

Punte BC2F

8,00 / 10	8,50 / 5	9,00 / 5	10,00 / 5	10,50 / 5	11,00 / 5	12,00 / 5	13,00 / 5	
4,50 / 10	5,00 / 10	5,25 / 5	5,50 / 10	6,00 / 10	6,50 / 5	6,75 / 5	7,00 / 5	
1,00 / 10	1,50 / 10	2,00 / 10	2,50 / 10	3,00 / 10	3,25 / 5	3,50 / 10	4,00 / 10	4,25 / 5



515 mm
330 mm
360 mm

Ref. 1-50

901,20 €



Ref. BC2F





Plus — PUNTE HSS IN BUSTA

Punte BC2

8,50 / 10	9,00 / 20	9,50 / 10	10,00 / 30				
6,00 / 40	6,50 / 30	7,00 / 30	7,50 / 30	8,00 / 30			
2,00 / 50	2,50 / 50	3,00 / 50	3,50 / 50	4,00 / 50	4,50 / 50	5,00 / 50	5,50 / 30



515 mm
330 mm
360 mm

Ref. 1-44

1.661,40 €



Ref. BC2

Plus — PUNTE HSS IN BUSTA

Punte BC2

2,00 / 100	2,50 / 50	3,00 / 100	3,25 / 50	3,50 / 50	4,00 / 100
4,25 / 50	4,50 / 50	5,00 / 100	5,25 / 50	5,50 / 50	5,75 / 50
6,00 / 50	6,50 / 50	6,75 / 20	7,00 / 50	7,50 / 30	8,00 / 40
8,50 / 20	9,00 / 40	9,50 / 20	10,00 / 40	10,50 / 10	
11,00 / 12	11,50 / 12	12,00 / 12	12,50 / 6	13,00 / 6	14,00 / 6



815 mm
400 mm
240 mm

Ref. 3-1

3.897,40 €



Ref. BC2





ESPOSITORI DI PUNTE ELICOIDALI CILINDRICHE DIN 338





PUNTE HSS-G IN BLISTER

Punte BC02B

11,00 / 5	11,50 / 5	12,00 / 5	13,00 / 5	14,00 / 5
9,00 / 5	9,50 / 5	10,00 / 5	10,25 / 5	10,50 / 5
6,75 / 5	7,00 / 5	7,50 / 5	8,00 / 10	8,50 / 5
5,00 / 10	5,50 / 10	5,75 / 5	6,00 / 10	6,50 / 5
3,30 / 5	3,50 / 10	4,00 / 10	4,20 / 5	4,50 / 10
1,00 / 10	1,50 / 10	2,00 / 10	2,50 / 10	3,00 / 10



515 mm
330 mm (x2)
360 mm

Ref. 1-61

1.591,05 €



Ref. BC02B

PUNTE HSS-G IN FONDINA

Punte BC02F

8,00 / 10	8,50 / 5	9,00 / 5	10,00 / 5	10,50 / 5	11,00 / 5	12,00 / 5	13,00 / 5	
4,50 / 10	5,00 / 10	5,25 / 5	5,50 / 10	6,00 / 10	6,50 / 5	6,75 / 5	7,00 / 5	
1,00 / 10	1,50 / 10	2,00 / 10	2,50 / 10	3,00 / 10	3,25 / 5	3,50 / 10	4,00 / 10	4,25 / 5



515 mm
330 mm
360 mm

Ref. 1-51

1.039,40 €



Ref. BC02F





PUNTE HSS-G IN BUSTA

Punte BC02

8,50 / 10	9,00 / 20	9,50 / 10	10,00 / 30				
6,00 / 40	6,50 / 20	7,00 / 30	7,50 / 20	8,00 / 30			
2,00 / 50	2,50 / 50	3,00 / 50	3,50 / 50	4,00 / 50	4,50 / 50	5,00 / 50	5,50 / 30



515 mm
330 mm
360 mm

Ref. 1-46

1.788,30 €



Ref. BC02

PUNTE HSS-G IN BUSTA

Punte BC02

2,00 / 100	2,50 / 50	3,00 / 100	3,25 / 50	3,50 / 50	4,00 / 100
4,25 / 50	4,50 / 50	5,00 / 100	5,25 / 50	5,50 / 50	5,75 / 50
6,00 / 50	6,50 / 50	6,75 / 20	7,00 / 50	7,50 / 30	8,00 / 40
8,50 / 20	9,00 / 40	9,50 / 20	10,00 / 40	10,50 / 10	
11,00 / 12	11,50 / 12	12,00 / 12	12,50 / 6	13,00 / 6	14,00 / 6



815 mm
400 mm
240 mm

Ref. 3-2

4.379,98 €



Ref. BC02



ESPOSITORI DI PUNTE ELICOIDALI CILINDRICHE DIN 338







HSSCo 5% PUNTE HSSCo IN BLISTER

Punte BC5B

11,00 / 5	11,50 / 5	12,00 / 5	13,00 / 5	14,00 / 7
9,00 / 5	9,50 / 5	10,00 / 5	10,25 / 5	10,50 / 5
6,75 / 5	7,00 / 5	7,50 / 5	8,00 / 10	8,50 / 5
5,00 / 10	5,50 / 10	5,75 / 5	6,00 / 10	6,50 / 5
3,30 / 5	3,50 / 10	4,00 / 10	4,20 / 5	4,50 / 10
1,00 / 10	1,50 / 10	2,00 / 10	2,50 / 10	3,00 / 10



515 mm
330 mm (x2)
360 mm

Ref. 1-60

2.345,35 €



Ref. BC5B

HSSCo 5% PUNTE HSSCo IN FONDINA

Punte BC5F

8,00 / 10	8,50 / 5	9,00 / 5	10,00 / 5	10,50 / 5	11,00 / 5	12,00 / 5	13,00 / 5
4,50 / 10	5,00 / 10	5,25 / 5	5,50 / 10	6,00 / 10	6,50 / 5	6,75 / 5	7,00 / 5
1,00 / 10	1,50 / 10	2,00 / 10	2,50 / 10	3,00 / 10	3,25 / 5	3,50 / 10	4,00 / 10	4,25 / 5



515 mm
330 mm
360 mm

Ref. 1-52

1.547,00 €



Ref. BC5F





HSSCo 5% PUNTE HSSCo IN BUSTA

Punte BC5

8,50 / 10	9,00 / 20	9,50 / 10	10,00 / 20				
6,00 / 30	6,50 / 20	7,00 / 30	7,50 / 20	8,00 / 30			
2,00 / 50	2,50 / 50	3,00 / 50	3,50 / 50	4,00 / 50	4,50 / 50	5,00 / 50	5,50 / 30



515 mm
330 mm
360 mm

Ref. 1-45

2.681,30 €



Ref. BC5

HSSCo 5% PUNTE HSSCo IN BUSTA

Punte BC5

2,00 / 100	2,50 / 50	3,00 / 100	3,25 / 30	3,50 / 30	4,00 / 100
4,25 / 30	4,50 / 30	5,00 / 100	5,25 / 20	5,50 / 30	5,75 / 30
6,00 / 50	6,50 / 20	6,75 / 20	7,00 / 30	7,50 / 20	8,00 / 30
8,50 / 10	9,00 / 30	9,50 / 10	10,00 / 30	10,50 / 10	
11,00 / 12	11,50 / 12	12,00 / 12	12,50 / 6	13,00 / 6	14,00 / 6



815 mm
400 mm
240 mm

Ref. 3-3

5.602,22 €



Ref. BC5





ESPOSITORI DI ESPOSITORI DI PUNTE CON CODOLO RIDOTTO





Ref. BC9P







12,70

HSS PUNTE HSS CODOLO RIDOTTO IN CONTENITORE TELESCOPICO

515 mm
330 mm
360 mm

Ref. 1-3

3.178,11 €

Punte BC9P

17,50 / 2	18,00 / 3	18,00 / 2	18,50 / 2	19,00 / 2	19,00 / 2	19,50 / 2	20,00 / 3
15,50 / 2	16,00 / 3	16,00 / 3	16,00 / 3	16,00 / 3	16,50 / 3	17,00 / 3	17,00 / 3
13,50 / 2	14,00 / 4	14,00 / 4	14,00 / 4	14,50 / 3	15,00 / 3	15,00 / 3	15,00 / 3





Ref. BC99P







12,70

HSSCo 5% PUNTE HSSCO CODOLO RIDOTTO IN CONTENITORE TELESCOPICO

515 mm
330 mm
360 mm

Ref. 1-6

4.653,72 €

Punte BC99P

17,50 / 2	18,00 / 2	18,00 / 2	18,50 / 2	19,00 / 2	19,00 / 2	19,50 / 2	20,00 / 2
15,50 / 2	16,00 / 2	16,00 / 2	16,00 / 2	16,00 / 2	16,50 / 2	17,00 / 2	17,00 / 2
13,50 / 2	14,00 / 3	14,00 / 3	14,00 / 2	14,50 / 2	15,00 / 2	15,00 / 2	15,00 / 2

ESPOSITORI DI PUNTE ELICOIDALI CILINDRICHE DIN 338 IN BLISTER E FONDINA







HSS **TiN** PUNTE HSS+TiN IN BLISTER

Punte BC18B

11,00 / 5	11,50 / 5	12,00 / 5	13,00 / 5	14,00 / 5
9,00 / 5	9,50 / 5	10,00 / 5	10,25 / 5	10,50 / 5
6,75 / 5	7,00 / 5	7,50 / 5	8,00 / 10	8,50 / 5
5,00 / 10	5,50 / 10	5,75 / 5	6,00 / 10	6,50 / 5
3,30 / 5	3,50 / 10	4,00 / 10	4,20 / 5	4,50 / 10
1,00 / 10	1,50 / 10	2,00 / 10	2,50 / 10	3,00 / 10



515 mm
330 mm (x2)
360 mm

Ref. 1-67

1.905,70 €



Ref. BC18B



HSS **TiN** PUNTE HSS+TiN IN FONDINA

Punte BC18F

8,00 / 10	8,50 / 5	9,00 / 5	10,00 / 5	10,50 / 5	11,00 / 5	12,00 / 5	13,00 / 5	
4,50 / 10	5,00 / 10	5,25 / 5	5,50 / 10	6,00 / 10	6,50 / 5	6,75 / 5	7,00 / 5	
1,00 / 10	1,50 / 10	2,00 / 10	2,50 / 10	3,00 / 10	3,25 / 5	3,50 / 10	4,00 / 10	4,25 / 5





Ref. BC18F

Ref. 1-54

1.291,70 €

515 mm
330 mm
360 mm





ESPOSITORI DI PUNTE ELICOIDALI CILINDRICHE DIN 338 IN BLISTER E FONDINA







HSSCo 5% | INOX | PUNTE HSSCo 5% ANTI-SLIP IN BLISTER

Punte BC95B

6,50 / 4	8,00 / 5	9,00 / 4	10,00 / 4	DC95314 / 4
4,20 / 3	4,50 / 5	5,00 / 5	5,50 / 5	6,00 / 5
1,00 / 5	2,00 / 5	3,00 / 5	3,20 / 3	4,00 / 5





515 mm
330 mm
360 mm

Ref. 1-25

663,65 €



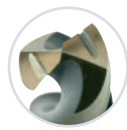
Ref. BC95B



HSSCo 5% | INOX | PUNTE HSSCo 5% ANTI-SLIP IN FONDINA

Punte BC95F

9,00 / 5	10,00 / 5	10,50 / 5	11,00 / 5	11,50 / 5	12,00 / 5	12,50 / 5	13,00 / 5
4,50 / 10	5,00 / 10	5,50 / 10	6,00 / 10	6,50 / 10	6,80 / 10	8,00 / 10	8,50 / 5
1,00 / 10	1,50 / 10	2,00 / 10	2,50 / 10	3,00 / 10	3,30 / 10	3,50 / 10	4,00 / 10	4,20 / 10





515 mm
330 mm
360 mm

Ref. 1-34

2.130,30 €



Ref. BC95F









HSSCo 5% | DIN 338 | PUNTE HSSCo 5% IN BLISTER

Punte BTXB

10,00 / 4	11,00 / 4	12,00 / 4	13,00 / 4	PTX9314 / 4
6,00 / 5	6,50 / 4	7,00 / 4	8,00 / 5	9,00 / 4
3,00 / 5	4,00 / 5	4,50 / 5	5,00 / 5	5,50 / 4



TURBO

Ref. 1-59

888,12 €

515 mm
330 mm
360 mm



Ref. BTXB





HSSCo 5% | DIN 338 | PUNTE HSSCo 5% IN FONDINA

Punte BTXF

10,00 / 5	10,20 / 2	10,50 / 2	11,00 / 2	11,50 / 2	12,00 / 2	12,50 / 2	13,00 / 2
6,50 / 5	6,80 / 5	7,00 / 2	7,50 / 2	8,00 / 10	8,50 / 2	9,00 / 2	9,50 / 2
3,00 / 10	3,30 / 5	3,50 / 5	4,00 / 10	4,20 / 5	4,50 / 5	5,00 / 10	5,50 / 5	6,00 / 10

515 mm
330 mm
360 mm

TURBO

Ref. 1-43

1.033,84 €



Ref. BTXF





ESPOSITORI DI PUNTE ELICOIDALI CILINDRICHE DIN 338 IN BLISTER E FONDINA





HSS | DIN 338 | PUNTE HSS IN BLISTER

Punte TTXB

10,00 / 4	11,00 / 4	12,00 / 4	13,00 / 4	PTTX9314 / 4
6,00 / 5	6,50 / 4	7,00 / 4	8,00 / 5	9,00 / 4
3,00 / 5	4,00 / 5	4,50 / 5	5,00 / 5	5,50 / 4

TURBO

Ref. 1-36

841,22 €



Ref. TTXB



515 mm
330 mm
360 mm





Ref. TTXF

515 mm
330 mm
360 mm



TURBO

Ref. 1-20

937,15 €

HSS | DIN 338 | PUNTE HSS IN FONDINA

Punte TTXF

10,00 / 5	10,20 / 2	10,50 / 2	11,00 / 2	11,50 / 2	12,00 / 2	12,50 / 2	13,00 / 2	
6,50 / 5	6,80 / 5	7,00 / 2	7,50 / 2	8,00 / 10	8,50 / 2	9,00 / 2	9,50 / 2	
3,00 / 10	3,30 / 5	3,50 / 5	4,00 / 10	4,20 / 5	4,50 / 5	5,00 / 10	5,50 / 5	6,00 / 10





HSS | DIN 338 | FORATURA SU SUPERFICI CURVATE E INSTABILI

Punte TK02B

10,00 / 5	11,00 / 2	12,00 / 2	13,00 / 2	PTK029314 / 4
6,00 / 10	6,50 / 5	7,00 / 5	8,00 / 10	9,00 / 5
3,00 / 10	4,00 / 10	4,50 / 5	5,00 / 10	5,50 / 5

STEPCUT

Ref. 1-65

1.374,77 €



TK02B

515 mm
330 mm
360 mm







TK02F

515 mm
330 mm
360 mm



STEPCUT

Ref. 1-66

1.730,22 €

HSS | DIN 338 | FORATURA SU SUPERFICI CURVATE E INSTABILI

Punte TK02F

9,50 / 5	10,00 / 5	10,50 / 2	11,00 / 2	11,50 / 2	12,00 / 2	12,50 / 2	13,00 / 2	
5,50 / 5	6,00 / 10	6,50 / 5	7,00 / 5	7,50 / 5	8,00 / 10	8,50 / 5	9,00 / 5	
1,00 / 10	1,50 / 5	2,00 / 10	2,50 / 5	3,00 / 10	3,50 / 5	4,00 / 10	4,50 / 5	5,00 / 10

ESPOSITORI DI PUNTE ELICOIDALI CILINDRICHE DIN 338 IN BLISTER E FONDINA







HSSCo 5% | DIN 338 | FORATURA SU SUPERFICI CURVATE E INSTABILI

Punte TK05B

10,00 / 5	11,00 / 2	12,00 / 2	13,00 / 2	PTK059314 / 4
6,00 / 10	6,50 / 5	7,00 / 5	8,00 / 10	9,00 / 5
3,00 / 10	4,00 / 10	4,50 / 5	5,00 / 10	5,50 / 4

STEPCUT INOX

Ref. 1-91

1.672,20 €



TK05B

515 mm
330 mm
360 mm







TK05F

515 mm
330 mm
360 mm



STEPCUT INOX

Ref. 1-92

2.117,94 €

HSSCo 5% | DIN 338 | FORATURA SU SUPERFICI CURVATE E INSTABILI

Punte TK05F

9,50 / 5	10,00 / 5	10,50 / 2	11,00 / 2	11,50 / 2	12,00 / 2	12,50 / 2	13,00 / 2	
5,50 / 5	6,00 / 10	6,50 / 5	7,00 / 5	7,50 / 5	8,00 / 10	8,50 / 5	9,00 / 5	
1,00 / 10	1,50 / 5	2,00 / 10	2,50 / 5	3,00 / 10	3,50 / 5	4,00 / 10	4,50 / 5	5,00 / 10

ESPOSITORI DI PUNTE HSSCo 8% E HSS SERIE LUNGA CODOLO CILINDRICO







HSS | DIN 340 | PUNTE HSS SERIE LUNGA IN FONDINA

Punte BC4F

8,00 / 10	8,50 / 5	9,00 / 5	10,00 / 5	10,50 / 5	11,00 / 5	12,00 / 5	13,00 / 5	
4,50 / 10	5,00 / 10	5,25 / 5	5,50 / 10	6,00 / 10	6,50 / 5	6,75 / 5	7,00 / 5	
1,00 / 10	1,50 / 10	2,00 / 10	2,50 / 10	3,00 / 10	3,25 / 5	3,50 / 10	4,00 / 10	4,25 / 5



Ref. BC4F

Ref. 1-19

1.293,80 €



515 mm
330 mm
360 mm



515 mm
330 mm
360 mm



Ref. BC58F

Ref. 1-41

2.267,05 €





HSSCo 8% | PUNTE HSSCo 8% IN FONDINA

Punte BC58F

8,00 / 10	8,50 / 5	9,00 / 5	10,00 / 5	10,50 / 5	11,00 / 5	12,00 / 5	13,00 / 5	
4,50 / 10	5,00 / 10	5,25 / 5	5,50 / 10	6,00 / 10	6,50 / 5	6,75 / 5	7,00 / 5	
1,00 / 10	1,50 / 10	2,00 / 10	2,50 / 10	3,00 / 10	3,25 / 5	3,50 / 10	4,00 / 10	4,25 / 5



ESPOSITORE DI PUNTE E FRESE SPECIALI PER IL SERRATURIERE


BC5
HSSCo 5%


Forma C
MD


BCC06
MD


BC7
PMD


BC98
PMD


BC85
MD
TiAlN


Forma AE
MD



ESPOSITORE DI PUNTE E FRESE SPECIALI PER IL SERRATURIERE

Punte metallo HSSCo 5% ref: BC5B

3,00	4,00	5,00	6,00	8,00
4	4	4	4	4

Frese Forma C Codolo Ø 3 e Ø 6 mm in Blister

3x60	6x50	6x80	6x100	6x150
2	2	2	2	2

Punte rif: BCC06B / rif: BC7B / rif: BC98B / rif: BC85B e frese Forma A/E in Blister

BCC06X60MDB	BC70600B	BC980600B	BC850600B	A60625-6EB
2	2	2	2	2



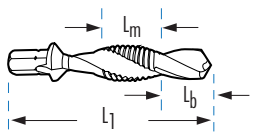
Ref. 1-86
143,48 €
1.084,46 €



UTENSILI A CODOLO ESAGONALE 1/4"

PUNTE-MASCHI SVASATORI

Ref. MAHMCR **HSS-G**



	L1 x Lb x Lm mm		MAHMCRB €
M 3 x 0,50	36 x 5 x 6	1/4"	**21,89**
M 4 x 0,70	39 x 6 x 7	1/4"	**21,89**
M 5 x 0,80	41 x 8 x 8	1/4"	**21,89**
M 6 x 1,00	44 x 8 x 10	1/4"	**21,89**
M 8 x 1,25	50 x 10 x 11	1/4"	**29,32**
M 10 x 1,50	59 x 11 x 11	1/4"	**34,84**







REFERENZA	**MAH9327CR**
Nº PUNTE	4
REFERENZA PUNTE	MAHMCR
CONTENUTO	M4-M5-M6-M8-M10
P.V.P. €	**143,56**



SERIE DI MASCHI MANUALI HSS IN BLISTER

Ref. M0B | M MF | DIN 13 60° | HSS | M DIN 352 | MF DIN 2181 | TOL 6H





				M0B
		Ø	$L_1 \times L_2 \times$ mm	€
M3 x 0,50	3	2,50	40 x 11 x 2,7	17,81
M4 x 0,70	3	3,30	45 x 13 x 3,4	17,80
M5 x 0,80	3	4,20	50 x 16 x 4,9	19,82
M6 x 1,00	3	5,00	50 x 19 x 4,9	20,00
M8 x 1,25	3	6,75	56 x 22 x 4,9	21,74
M10 x 1,50	3	8,50	70 x 24 x 5,5	27,23
M12 x 1,75	3	10,25	75 x 29 x 7,0	33,88
M14 x 2,00	3	12,00	80 x 30 x 9,0	42,54

Blister: 165 x 105 mm.

GIRAMASCHI IN BLISTER



Ref. GAB | DIN 1814



		GAB
		€
GA1B	M1 - M10	14,80
GA2B	M4 - M12	23,29

Blister GA1B: 75x285mm GA2B: 110x275mm

Ref. TCB | HSS



		TCB
		€
TC1B	M3 - M8	16,82
TC2B	M5 - M12	25,19

Blister: 165 x 105 mm.



ESPOSITORE DI MASCHI MANUALI HSS IN BLISTER



515 mm
330 mm
360 mm

Ref. 1-78

2.649,84 €



M10 x 1,50 / 12	M12 x 1,75 / 12	M14 x 2,00 / 12
M6 x 1,00 / 12	M6 x 1,00 / 12	M8 x 1,25 / 12
M3 x 0,50 / 12	M4 x 0,70 / 12	M5 x 0,80 / 12

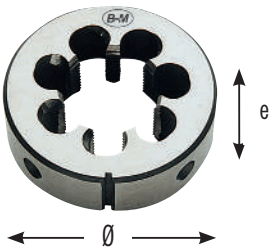


FILIERE HSS IN BLISTER

Ref. C5B

M MF	HSS	M DIN 223	MF DIN 223	TOL 6g





		Ø x e mm	C5B €
M3 x 0,50	1	25 x 9	20,07
M4 x 0,70	1	25 x 9	19,92
M5 x 0,80	1	25 x 9	20,62
M6 x 1,00	1	25 x 9	21,91
M8 x 1,25	1	25 x 9	22,21
M10 x 1,50	1	38 x 10	25,23
M12 x 1,75	1	38 x 10	34,94
M14 x 2,00	1	38 x 14	37,76

Blister: 165 x 105 mm.

GIRAFILIERE IN BLISTER



Ref. VAB

DIN 225



		VAB €
VA25B	25	15,64
VA38B	38	23,31

Blister VA25B: 75x285mm VA38B: 110x275mm

ESPOSITORE DI FILIERE HSS IN BLISTER



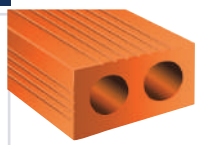
515 mm
330 mm
360 mm

Ref. 1-79

2.694,84 €



M10 x 1,50 / 12	M12 x 1,75 / 12	M14 x 2,00 / 12
M6 x 1,00 / 12	M6 x 1,00 / 12	M8 x 1,25 / 12
M3 x 0,50 / 12	M4 x 0,70 / 12	M5 x 0,80 / 12



PUNTE PER EDILIZIA DIN 8039 IN BLISTER







Ref. BW1B

★★ | DIN 8039

Ø mm	L1 x L2 mm		BW1B €
3,00	70 x 30	2	4,02
4,00	70 x 30	2	4,12
5,00	85 x 45	1	2,43
6,00	100 x 50	1	2,66
7,00	100 x 50	1	2,91

Blister: 190x60 mm

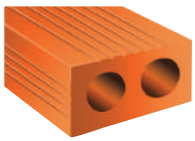
Ø mm	L1 x L2 mm		BW1B €
8,00	120 x 70	1	3,01
9,00	120 x 70	1	3,53
10,00	120 x 70	1	3,75
11,00	150 x 80	1	5,33
12,00	150 x 80	1	6,42
13,00	150 x 80	1	7,35
14,00	150 x 80	1	8,30

Blister: 230x60 mm

Applicazioni: mattone, cemento, uralite, pietra, arenaria

Giri al minuto consigliato:

MATERIAL	Ø 3	Ø 5	Ø 8	Ø 10	Ø 12	Ø 13	Ø 14
Morbido	3200	1900	1300	1100	900	800	700
Duro	2100	1200	900	700	600	500	400



PUNTE PER EDILIZIA DIN 8039 IN BLISTER







Ref. BW6B

★★ ★★ | DIN 8039

Ø mm	L1 x L2 mm		BW6B €
3,00	70 x 30	2	6,65
4,00	70 x 30	2	6,65
5,00	85 x 45	1	4,01
6,00	100 x 50	1	4,16
7,00	100 x 50	1	4,37

Blister: 190x60 mm

Ø mm	L1 x L2 mm		BW6B €
8,00	120 x 70	1	4,97
9,00	120 x 70	1	6,49
10,00	120 x 70	1	7,19
11,00	150 x 80	1	10,25
12,00	150 x 80	1	10,78
13,00	150 x 80	1	14,24
14,00	150 x 80	1	13,32

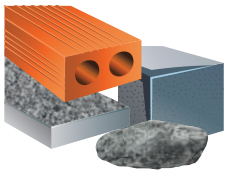
Blister: 230x60 mm

Applicazioni: calcestruzzo senza stelo, marmo, granito, ardesia, tutti i tipi di pietre

Giri al minuto consigliato:

MATERIAL	Ø 3	Ø 5	Ø 8	Ø 10	Ø 12	Ø 13	Ø 14
Morbido	3200	1900	1300	1100	900	800	700
Duro	2100	1200	900	700	600	500	400

Su richiesta, possiamo fornire alle nostre carte un sistema antifurto per elettromagnetismo con un supplemento di 0,07 € NETTI per lettera, che può essere posizionato su tutti i pezzi o in modo casuale.



PUNTE PER CALCESTRUZZO CON TESTA IN METALLO DURO SERIE EXTRA PROFESSIONALE





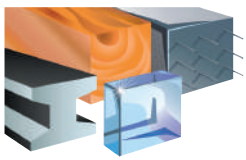


Ø mm	L1 x L2 mm		BW16B €
4,00	75 x 38	2	8,67
5,00	85 x 45	1	4,92
6,00	100 x 55	1	5,15
7,00	100 x 64	1	5,70

Blister: 190x60 mm

Ø mm	L1 x L2 mm		BW16B €
8,00	120 x 70	1	6,19
9,00	120 x 80	1	8,10
10,00	120 x 90	1	8,97
12,00	150 x 110	1	12,13

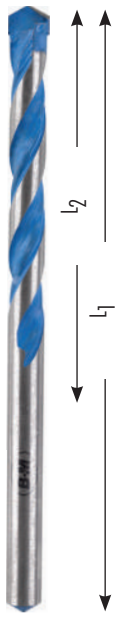
Blister: 230x60 mm



PUNTE MULTIUSO CON TESTA IN METALLO DURO SERIE PROFESSIONALE DIN 8039 IN BLISTER







Ø mm	L1 x L2 mm		BW8B €
4,00	70 x 30	2	12,22
5,00	85 x 45	1	7,47
6,00	100 x 50	1	7,18
7,00	100 x 50	1	8,72

Blister: 190x60 mm.

Ø mm	L1 x L2 mm		BW8B €
8,00	120 x 70	1	8,60
9,00	120 x 70	1	10,96
10,00	120 x 70	1	13,13
12,00	150 x 80	1	15,31

Blister: 230x60 mm.

Giri al minuto Consigliato

MATERIALE	Ø 3	Ø 5	Ø 8	Ø 10
Calcestruzzo	1500	1300	900	800
Bicchiere	800	600	500	400
Acciaio	2000	1800	1000	600
Legno	1600	1000	800	500
Porcellana	700	500	400	300
Plastica	2000	1200	750	550

Applicazioni:

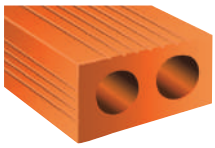


- In percussione:
  Calcestruzzo, mattoni e pietra

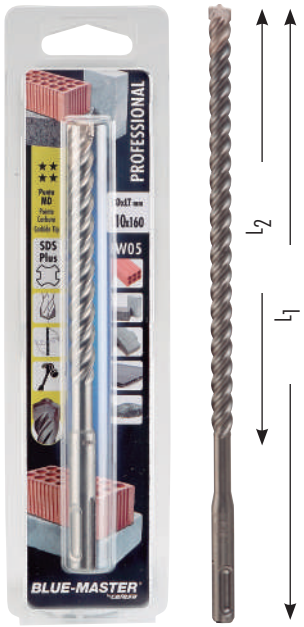


- In rotazione:
  Metalli, ceramica, legno e plastica

Su richiesta, possiamo fornire alle nostre carte un sistema antifurto per elettromagnetismo con un supplemento di 0,07 € NETTI per lettera, che può essere posizionato su tutti i pezzi o in modo casuale.



PUNTA PER TRAPANO A MARTELLO SDS-PLUS A DOPPIO CANALE IN BLISTER





Ref. W05B

SDS Plus

Ø mm	L1 x L2 mm		W05B €
4x110	110 x 50	1	9,06
5x110	110 x 50	1	7,68
6x110	110 x 50	1	7,86
7x110	110 x 50	1	9,49
8x110	110 x 50	1	9,31
10x110	110 x 50	1	10,88

Blister: 190x60 mm

Ø mm	L1 x L2 mm		W05B €
5x160	160x100	1	9,16
6x160	160x100	1	8,68
7x160	160x100	1	11,40
8x160	160x100	1	10,01
10x160	160x100	1	10,81
12x160	160x100	1	12,75
14x160	160x100	1	20,26

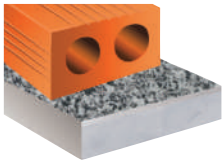
Blister: 230x60 mm

Giri al minuto Consigliato

MATERIAL	Ø 3	Ø 5	Ø 8	Ø 10	Ø 12	Ø 14
Morbido	3200	1900	1300	1100	900	700
Duro	2100	1200	900	700	600	400

Applicazioni: calcestruzzo, materiale edilizia, marmo, granito, ardesia, pietra naturale.

Vantaggi: punta autocentrante. Maggiore velocità e durata. Attrito minimo grazie al labbro stretto. Vita utile superiore grazie all'attrito ridotto sulla punta e sui canali. Estrazione più rapida di polvere di calcestruzzo.



ASTUCCI DI PUNTE PER EDILIZIA IN BLISTER







Cont.

15 (Ref. BW1) ★★		15 (Ref. BW6) ★★★★		15 (Ref. BW15) ★★★★★	
Ø 3 (x3) - 4 (x3) - 5 (x3) - 6 (x2) - 8 (x2) - 10 (x2) mm.		Ø 3 (x3) - 4 (x3) - 5 (x3) - 6 (x2) - 8 (x2) - 10 (x2) mm.		Ø 3 (x3) - 4 (x3) - 5 (x3) - 6 (x2) - 8 (x2) - 10 (x2) mm.	
BW19329B	**24,44 €**	**BW69329B**	**45,45 €**	**BW159329B**	**46,58 €** *

*Fino ad esaurimento scorte.

Su richiesta, possiamo fornire alle nostre carte un sistema antifurto per elettromagnetismo con un supplemento di 0,07 € NETTI per lettera, che può essere posizionato su tutti i pezzi o in modo casuale.

ESPOSITORI DI PUNTE PER EDILIZIA









PUNTE PER MURO IN BLISTER

Punte BW1B

10,00 / 10	10,00 / 10	11,00 / 7	12,00 / 7	14,00 / 7
6,00 / 15	7,00 / 15	8,00 / 10	8,00 / 10	9,00 / 10
3,00 / 18	4,00 / 18	5,00 / 15	5,00 / 15	6,00 / 15

515 mm
330 mm
360 mm

Ref. 1-70

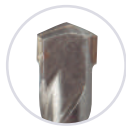
653,72 €

Ref. BW1B





Ref. BW1



515 mm
330 mm
360 mm

Ref. 1-1

962,46 €

PUNTE PER MURO IN FONDINA

Astucci BW1

BW19318 / 4	BW19327 / 4	BW19328 / 4	BW19319 / 4

Punte BW1

10,00 / 8	10,00 / 8	11,00 / 6	12,00 / 6	13,00 / 4	14,00 / 4	16,00 / 4	18,00 / 4
3,00 / 10	4,00 / 10	5,00 / 50	5,00 / 50	6,00 / 50	6,00 / 50	7,00 / 10	8,00 / 50	8,00 / 50	9,00 / 10

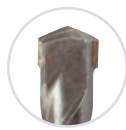
PUNTE PER MURO IN FONDINA E ASTUCCI

Punte BW1

5x150 / 5	6x150 / 5	6x200 / 5	8x200 / 5	10x200 / 5	12x200 / 5	14x200 / 2	16x200 / 2	18x200 / 2
3,00 / 10	4,00 / 10	5,00 / 100	6,00 / 100	7,00 / 10	8,00 / 100	9,00 / 10	10,00 / 8	12,00 / 6

Astucci BW1

BW19328 / 4	BW19327 / 4	BW19318 / 4	BW19319 / 4



515 mm
330 mm
360 mm

Ref. 1-2

1.034,99 €



Ref. BW1







Ref. BW1



615 mm
330 mm
360 mm

Ref. 2-3

1.001,57 €

PUNTE PER MURO IN FONDINA

Punte BW1

6x400 / 3	8x400 / 3	10x400 / 3	12x400 / 3	14x400 / 3	16x400 / 2	18x400 / 2		
5x150 / 5	6x150 / 5	6x200 / 5	8x200 / 5	10x200 / 5	12x200 / 5	14x200 / 2	16x200 / 2	18x200 / 2
3,00 / 10	4,00 / 10	5,00 / 100	6,00 / 100	7,00 / 10	8,00 / 100	9,00 / 10	10,00 / 8	12,00 / 6

ESPOSITORI DI PUNTE PER EDILIZIA

PUNTE PER MURO EXTRA PROFESSIONALE IN BLISTER

Punte BW6B

10,00 / 10	10,00 / 10	11,00 / 7	12,00 / 7	14,00 / 7
6,00 / 15	7,00 / 15	8,00 / 10	8,00 / 10	9,00 / 10
3,00 / 18	4,00 / 18	5,00 / 15	5,00 / 15	6,00 / 15



515 mm
330 mm
360 mm

Ref. 1-69

1.098,60 €



Ref. BW6B







Ref. BW6



515 mm
330 mm
360 mm

Ref. 1-4

1.438,50 €

PUNTE PER MURO PROFESSIONALE IN FONDINA E ASTUCCI

Astucci BW6

BW69318 / 4	BW69327 / 4	BW69328 / 4	BW69319 / 4

Punte BW6

10,00 / 8	10,00 / 8	11,00 / 6	12,00 / 6	13,00 / 4	14,00 / 4	16,00 / 4	18,00 / 4
3,00 / 10	4,00 / 10	5,00 / 30	5,00 / 30	6,00 / 30	6,00 / 30	7,00 / 10	8,00 / 30	8,00 / 30	9,00 / 10

PUNTE PER MURO PROFESSIONALE IN FONDINA E ASTUCCI

Punte BW6

5x150 / 5	6x150 / 5	6x200 / 5	8x200 / 5	10x200 / 5	12x200 / 5	14x200 / 2	16x200 / 2	18x200 / 2
3,00 / 10	4,00 / 10	5,00 / 50	6,00 / 50	7,00 / 10	8,00 / 50	9,00 / 10	10,00 / 8	12,00 / 6

Astucci BW6

BW69318 / 4	BW69327 / 4	BW69328 / 4	BW69319 / 4



515 mm
330 mm
360 mm

Ref. 1-5

1.368,77 €



Ref. BW6







Ref. BW6



615 mm
330 mm
360 mm

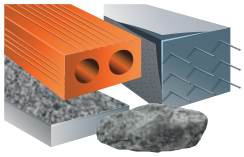
Ref. 2-6

1.302,07 €

PUNTE PER MURO PROFESSIONALE IN FONDINA

Punte BW6

6x400 / 3	8x400 / 3	10x400 / 3	12x400 / 3	14x400 / 3	16x400 / 2	18x400 / 2		
5x150 / 5	6x150 / 5	6x200 / 5	8x200 / 5	10x200 / 5	12x200 / 5	14x200 / 2	16x200 / 2	18x200 / 2
3,00 / 10	4,00 / 10	5,00 / 50	6,00 / 50	7,00 / 10	8,00 / 50	9,00 / 10	10,00 / 8	12,00 / 6



ESPOSITORI DI PUNTE PER EDILIZIA





PUNTE DELTA 3 PLUS IN BLISTER

Punte BW35

5x150 6	6x150 6	8x200 5	10x200 5	12x200 5
5,00 8	6,00 8	8,00 8	10,00 5	12,00 5
5,00 8	6,00 8	8,00 8	10,00 5	12,00 5





Ref. BW35B

Ref. 1-48

835,36 €

615 mm
330 mm
360 mm





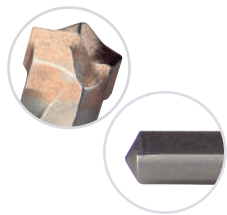


PUNTE PER MURO EXTRA PROFESSIONALE IN BLISTER

Punte BW16

BW169325 5		BW169327 5	BW169334 5	
7,00 10	8,00 10	9,00 10	10,00 10	12,00 10
4,00 10	5,00 10	5,00 10	6,00 10	6,00 10





Ref. BW16B

Ref. 1-58

1.160,95 €

515 mm
330 mm
360 mm

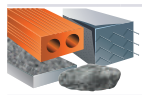




515 mm
330 mm
360 mm

Ref. 2-32

1.069,18 €



PUNTE PER MURO EXTRA PROFESSIONALE IN FONDINA E ASTUCCI

Punte BW16

10X200 3	12X200 3	BW169325 5		BW169327 5	BW169434 5	
16,00 3	5X150 5	6X150 5	8X150 5	10X150 5	6X200 3	8X200 3
4,00 10	5,00 10	6,00 10	8,00 10	10,00 10	12,00 5	14,00 3

ESPOSITORI DI PUNTE MISTE PER EDILIZIA











BW16	4,00 / 10	5,00 / 10	6,00 / 10	7,00 / 10	8,00 / 10	9,00 / 6	10,00 / 6	12,00 / 6	
BW6	3,00 / 10	4,00 / 10	5,00 / 30	6,00 / 30	7,00 / 10	8,00 / 30	9,00 / 10	10,00 / 8	12,00 / 6
BW1	3,00 / 10	4,00 / 10	5,00 / 30	6,00 / 30	7,00 / 10	8,00 / 30	9,00 / 10	10,00 / 8	12,00 / 6



Ref. 1-8

1.028,22 €



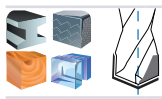






Ref. 1-12

1.118,85 €



BW6	3,00 / 10	4,00 / 10	5,00 / 15	6,00 / 15	7,00 / 10	8,00 / 10	9,00 / 10	10,00 / 8	12,00 / 6
BW16	4,00 / 10	5,00 / 10	6,00 / 10	7,00 / 10	8,00 / 10	9,00 / 8	10,00 / 8	12,00 / 6	
BW8	4,00 / 10	5,00 / 10	6,00 / 10	7,00 / 10	8,00 / 10	9,00 / 10	10,00 / 8	12,00 / 6	











BW16	BW169325 / 4	BW169327 / 4	BW169434 / 4	
BW6	BW69325 / 5	BW69327 / 5	BW69328 / 5	BW69434 / 5
BW1	BW19325 / 5	BW19327 / 5	BW19328 / 5	BW19434 / 5



Ref. 1-14

1.206,31€

ESPOSITORI DI PUNTE PER EDILIZIA





Ref. BW9B



515 mm
330 mm
360 mm

Ref. 1-18

5.150,25 €



PUNTE PER PORCELLANICO IN BLISTER

Astucci BW9

BW99325	BW99325	BW99318	BW99318	
4	4	4	4	

Punte BW9

7,00	8,00	9,00	10,00	11,00
3	10	6	6	6
3,00	4,00	5,00	6,00	6,00
10	12	10	12	12



BW9
CPS
BW7



BW9



CPS



BW7



ESPOSITORE MISTO PER PORCELLANICO

BW7	4,00	5,00	6,00	8,00	10,00		
	3	5	5	3	2		
CPS	5,00	6,00	8,00	10,00	Guida di centrage	CGB	
	2	2	2	1	Raffreddamento ad acqua	1	
BW9	4,00	5,00	6,00	8,00	10,00		
	2	5	5	2	2		

515 mm
330 mm
360 mm

Ref. 1-49

931,74 €

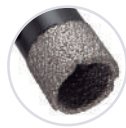
11,63 €



BW7



CPS



CSE





BW7



CPS



CSE

515 mm
330 mm
360 mm

Ref. 1-27

877,47 €

962,80 €



ESPOSITORE MISTO PER PORCELLANICO

Punte BW7

4,00	5,00	6,00	8,00	10,00
5	5	5	5	5

Punte CPS ·

5,00	6,00	8,00	10,00	12,00	Guía	CGB
3	3	3	3	3		2

Fresa a tazza CSE

20,00	25,00	30,00	35,00	50,00	Husillo	ADCSE
2	2	2	2	2		2

ESPOSITORE DI PUNTE MULTIUSO PER EDILIZIA





Ref. BW8B





515 mm
330 mm
360 mm

Ref. 1-74

1.899,82 €

PUNTE MULTIUSO IN BLISTER

Punte BW8B

9,00 / 10	10,00 / 10	10,00 / 10	12,00 / 7	12,00 / 7
6,00 / 15	7,00 / 15	7,00 / 15	8,00 / 10	8,00 / 10
4,00 / 18	4,00 / 18	5,00 / 15	5,00 / 15	6,00 / 15

ESPOSITORE DI PUNTE E FRESE PER VETRO



BC90

BC70







Ref. BC90B



Ref. BC70B



PUNTE E FRESE PER VETRO IN BLISTER

Punte BC70B

16,00 / 3	18,00 / 3	20,00 / 3
10,00 / 3	12,00 / 3	14,00 / 3

Frese BC90B

3,00 / 5	4,00 / 5	5,00 / 5	6,00 / 4	8,00 / 4

Ref. 1-24

581,69 €

515 mm
330 mm
360 mm

ESPOSITORE DI PUNTE A MARTELLO





Ref. W05B





515 mm
330 mm
360 mm

Ref. 1-72

1.146,56 €

SDS Plus

PUNTE A MARTELLO IN BLISTER

Punte W05B

8x160 / 7	10x110 / 8	10x160 / 7	12x160 / 7	14x160 / 7
6x160 / 7	7x110 / 8	7x160 / 7	8x110 / 8	8x160 / 7
4x110 / 8	5x110 / 8	5x160 / 7	6x110 / 8	6x160 / 7

ESPOSITORI DI PUNTE PER EDILIZIA



SDS Plus

GAMMA W08 FINO A 20 X 200 mm.

Punte W08

6,5x200 / 3	8x200 / 5	10x200 / 5	12x200 / 3	14x200 / 3	15x250 / 3	16x200 / 2	18x200 / 2	20x200 / 2
6x160 / 5	6x160 / 5	8x160 / 5	10x160 / 5	12x160 / 3	14x160 / 3	15x160 / 3	5x200 / 5	6x200 / 5
4x110 / 5	5x110 / 5	5x110 / 5	6x110 / 5	6x110 / 5	8x110 / 5	10x110 / 5	4x160 / 5	5x160 / 5

615 mm
330 mm
360 mm

Ref. 2-11

894,45 €







SDS Plus

GAMMA W05 FINO A 20 X 200 mm.

Punte W05

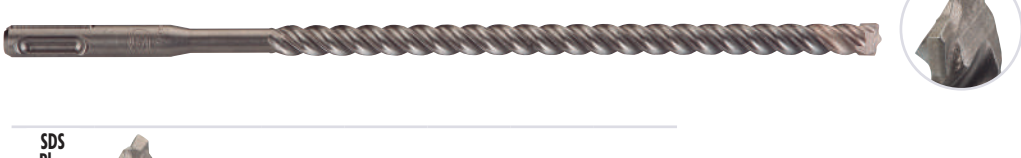
6x200 / 3	8x200 / 3	10x200 / 3	12x200 / 3	14x200 / 3	16x200 / 2	18x200 / 2	20x200 / 2
6x160 / 5	6x160 / 5	6x160 / 5	8x160 / 5	10x160 / 5	12x160 / 3	14x160 / 3	5x200 / 3
4x110 / 5	4x110 / 5	5x110 / 5	6x110 / 5	6x110 / 5	8x110 / 5	10x110 / 5	5x160 / 5

Ref. 2-12

1.014,45 €

615 mm
330 mm
360 mm





SDS Plus

GAMMA W05 FINO A 20 X 200 mm.

Punte W05

7x200 / 3	8x200 / 3	10x200 / 3	12x200 / 3	14x200 / 3	16x200 / 2	18x200 / 2	20x200 / 2
6x160 / 8	7x160 / 5	8x160 / 5	10x160 / 5	12x160 / 3	14x160 / 3	5x200 / 3	6x200 / 3
4x110 / 8	5x110 / 8	6x110 / 8	7x110 / 8	8x110 / 8	10x110 / 8	4x160 / 8	5x160 / 8

615 mm
330 mm
360 mm

Ref. 2-19

1.218,22 €

ESPOSITORI DI PUNTE PER EDILIZIA





SDS Plus



GAMMA W05 FINO A 20 X 450 mm.

Punte W05

18x300	20x300	10x450	12x450	14x450	16x450	18x450	20x450
2	2	2	2	2	2	2	2
14x200	16x200	18x200	20x200	10x300	12x300	14x300	16x300
5	5	2	2	3	3	2	2
5x160	6x160	8x160	10x160	12x160	14x160	10x200	12x200
10	10	10	5	5	5	5	5

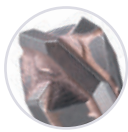
615 mm
330 mm
360 mm

Ref. 2-20

1.797,28 €









SDS Plus



GAMMA W55 FINO A 20 X 250 mm.

Punte W55

6,5x210	8x210	10x210	12x200	14x200	16x250	18x250	20x250
2	2	2	2	2	2	2	2
6x160	6,5x160	8x160	10x160	12x160	14x160	5x210	6x210
5	5	5	5	3	3	2	2
5x110	5x110	6x110	6x110	8x110	10x110	5x160	6x160
5	5	5	5	5	5	5	5

615 mm
330 mm
360 mm

Ref. 2-13

972,28 €





Serie DeltaTOP

SDS Plus



PUNTE PER CALCESTRUZZO ARMATO W88 FINO A 20 X 320 mm.

Punte W88

14x270	16x270	10x320	12x320	14x320	16x320	18x320	20x320
2	2	2	2	2	2	2	1
8x220	10x220	12x220	14x220	6x270	8x270	10x270	12x270
3	3	2	2	3	3	3	2
5x120	6x120	8x120	10x120	6x170	8x170	10x170	6x220
5	5	5	5	5	5	3	3

615 mm
330 mm
360 mm

Ref. 2-31

1.838,43 €



ESPOSITORI DI PUNTE PER EDILIZIA





SDS Plus



PUNTE PER CALCESTRUZZO ARMATO W77 FINO A 16 X 215 mm.

Punte W77

14x165	15x165	5x215	6x215	8x215	10x215	12x215	14x215	16x215
1	1	2	2	2	2	1	1	1
6x165	6,5x165	7x165	8x165	9x165	10x165	11x165	12x165	13x165
5	2	1	5	1	5	1	2	1
5x115	5,5x115	6x115	6,5x115	7x115	8x115	10x115	5x165	5,5x165
5	2	5	2	2	5	2	5	1

615 mm
330 mm
360 mm

Ref. 2-28

1.139,45 €







615 mm
330 mm
360 mm

Ref. 2-26

1.315,10 €



SDS Plus



PUNTE PER CALCESTRUZZO ARMATO W77 FINO A 20 X 250 mm.

Punte W77

6x215	8x215	10x215	12x215	14x215	15x265	16x215	18x250	20x250
2	2	2	2	1	1	1	1	1
6x165	6x165	6,5x165	8x165	10x165	12x165	14x165	15x165	5x215
3	3	2	3	3	2	2	2	2
5x115	5x115	6x115	6x115	6,5x115	8x115	10x115	5x165	5x165
3	3	3	3	2	3	3	3	3

ESPOSITORE DI PUNTE MULTIUSO PER EDILIZIA





W99



BW8



SDS Plus

GAMMA BW8 FINO A 12 X 150 mm.
GAMMA W99 FINO A 16 X 260 mm.

Punte BW8

4x70	5x85	6x100	8x120	10x120	12x150	BW89325
4	4	4	4	4	3	4

Punte W99

6x210	8x210	10x210	12x210	12x260	14x260	16x260
2	2	2	2	2	2	2
6x110	8x110	10x110	6x160	8x160	10x160	12x160
3	3	3	3	3	3	3

615 mm
330 mm
360 mm

Ref. 2-33

898,61 €



ESPOSITORI DI PUNTE E SCALPELLI PER EDILIZIA









SDS Max

GAMMA AX FINO A 30 X 320 mm.

Scalpelli

P01280	P01400	P01600	C01280	C01400	C01600
2	2	2	2	2	2

Punte AX

22x320	24x320	25x320	26x320	28x320	30x320
2	2	2	2	2	2
12x340	14x340	15x340	16x340	18x340	20x320
2	2	2	2	2	2

615 mm
330 mm
360 mm

Ref. 2-23

3.012,92 €



615 mm
330 mm
360 mm

Ref. 2-24

1.338,68 €

SDS Max | SDS Plus

SCALPELLI

SDS Max — Scalpelli

P01280	P01400	P01600	C01280	C01400	C01600
2	2	2	2	2	2

SDS Max — Scalpelli

C0150	C0175	C01115	CZ0150
2	2	2	2

SDS Plus — Scalpelli

P02250	P02250	C02250	C02250	CA02250	CZ02250
4	4	4	4	4	4



SDS Max

GAMMA AX FINO A 30 X 520 mm.

Scalpelli

P01280	P01400	P01600	C01280	C01400	C01600
2	2	2	2	2	2

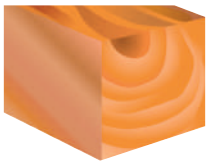
Punte AX

16x540	18x540	20x520	22x520	24x520	25x520	30x520
2	2	2	2	2	2	2
12x340	14x340	16x340	18x340	20x320	22x320	24x320
2	2	2	2	2	2	2

615 mm
330 mm
360 mm

Ref. 2-22

3.582,74 €



PUNTE PER LEGNO IN BLISTER





Giri al minuto consigliato:

LEGNO	Ø 3	Ø 4	Ø 5	Ø 6	Ø 8	Ø 10	Ø 11
Morbido	2000	1500	1300	1250	1200	1000	850
Duro	1400	1300	1100	1000	750	700	600



Ref. BMB

★★★ CV




Ø mm	L1 x L2 mm		BMB €
3,00	59 x 35	2	3,70
4,00	74 x 41	2	3,98
5,00	82 x 55	1	2,69
6,00	88 x 58	1	2,85
7,00	110 x 70	1	3,04

Blister: 190x60 mm

Ø mm	L_1 x L_2 mm		BMB €
8,00	110 x 70	1	3,52
9,00	110 x 70	1	4,14
10,00	115 x 75	1	4,39
11,00	135 x 85	1	5,48
12,00	135 x 85	1	5,98
13,00	135 x 90	1	5,79
14,00	145 x 95	1	6,34

Blister: 230x60 mm

Blister: 282x60 mm





Giri al minuto consigliato:

LEGNO	Ø 3	Ø 4	Ø 5	Ø 6	Ø 8	Ø 10	Ø 11
Morbido	2000	1500	1300	1250	1200	1000	850
Duro	1400	1300	1100	1000	750	700	600



Ref. BMPRB

★★★★ HSS




Ø mm	L1 x L2 mm		BMPRB €
3,00	59 x 35	2	5,39
4,00	74 x 41	2	5,82
5,00	82 x 55	1	3,56
6,00	88 x 58	1	4,41
7,00	110 x 70	1	5,09

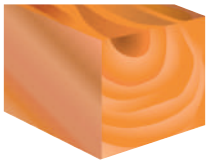
Blister: 190x60 mm

Ø mm	L1 x L2 mm		BMPRB €
8,00	110 x 70	1	6,03
9,00	110 x 70	1	7,31
10,00	115 x 75	1	7,23
11,00	135 x 85	1	8,56
12,00	135 x 85	1	9,45
13,00	135 x 90	1	10,10
14,00	145 x 95	1	11,08

Blister: 230x60 mm

Blister: 282x60 mm

Su richiesta, possiamo fornire alle nostre carte un sistema antifurto per elettromagnetismo con un supplemento di 0,07 € NETTI per lettera, che può essere posizionato su tutti i pezzi o in modo casuale.



MECCHIE PIATTE PER LEGNO IN BLISTER







Ref. BMPB

CV

1/4"

Ø mm	L1 x L2 mm		BMPB €
6,00	150	1	4,27
8,00	150	1	4,56
10,00	150	1	5,00
12,00	150	1	5,31
13,00	150	1	6,12
14,00	150	1	5,73
15,00	150	1	6,12
16,00	150	1	5,82
17,00	150	1	6,23
18,00	150	1	5,84

Blister: 230x60 mm

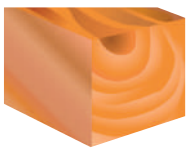
Ø mm	L_1 x L_2 mm		BMPB €
19,00	150	1	6,44
20,00	150	1	6,29
22,00	150	1	7,15
24,00	150	1	7,58
25,00	150	1	8,74
26,00	150	1	8,01
28,00	150	1	8,39
30,00	150	1	8,70
32,00	150	1	9,28
34,00	150	1	10,44
35,00	150	1	10,77
36,00	150	1	11,02
38,00	150	1	12,44
40,00	150	1	13,90

Blister: 230x60 mm

Giri al minuto consigliato:

LEGNO	Ø 6	Ø 14	Ø 20	Ø 28	Ø 38
Morbido	1400	1100	850	700	550
Duro	700	550	400	350	300

Su richiesta, possiamo fornire alle nostre carte un sistema antifurto per elettromagnetismo con un supplemento di 0,07 € NETTI per lettera, che può essere posizionato su tutti i pezzi o in modo casuale.



ASTUCCI DI PUNTE PER LEGNO IN BLISTER

CV





Cont.	15 (Ref. BM) CV
	Ø 3 (x3) - 3,5 (x2) - 4 (x2) - 4,5 - 5 - 5,5 - 6 - 6,5 - 7 - 8 - 10 mm.
BM9337B	**27,25 €**

ESPOSITORI DI PUNTE PER LEGNO



CV PUNTE PER LEGNO CV IN BLISTER

Punte BMB

13,00 / 6	14,00 / 6	15,00 / 6	16,00 / 6	18,00 / 6
8,00 / 10	9,00 / 10	10,00 / 10	11,00 / 10	12,00 / 6
3,00 / 18	4,00 / 18	5,00 / 15	6,00 / 15	7,00 / 15

Ref. 1-76

655,21 €



Ref. BMB



515 mm
330 mm
360 mm





515 mm
330 mm
360 mm





Ref. BM

Ref. 1-26

1.108,25 €

CV PUNTE PER LEGNO CV IN FONDINA

Astucci BM

BM9334 / 4	BM9333 / 4	BMPR9334 / 4	BMPR9333 / 4

Punte BM

12,00 / 6	13,00 / 3	14,00 / 3	15,00 / 3	16,00 / 3	18,00 / 3	20,00 / 3	L1 standard.
3,00 / 15	4,00 / 15	5,00 / 50	6,00 / 50	7,00 / 10	8,00 / 50	9,00 / 10	10,00 / 50	11,00 / 6

CV PUNTE PER LEGNO CV IN FONDINA

Punte BM

L1 450 mm.

8x450 / 4	10x450 / 4	12x450 / 4	14x450 / 4	16x450 / 4	18x450 / 4	20x450 / 4

L1 300 mm.

5x300 / 4	6x300 / 4	7x300 / 4	8x300 / 4	9x300 / 4	10x300 / 4	12x300 / 4	14x300 / 4	16x300 / 4

L1 standard

3,00 / 15	4,00 / 15	5,00 / 50	6,00 / 50	7,00 / 10	8,00 / 50	9,00 / 8	10,00 / 50	12,00 / 6



Ref. BM



Ref. 2-25

1.524,18 €

615 mm
330 mm
360 mm





PUNTE A 4 TAGLIENTI PER LEGNO IN FONDINA

Punte BM4P

30,00 / 2	32,00 / 2	35,00 / 2	40,00 / 2	
22,00 / 4	24,00 / 4	25,00 / 3	28,00 / 3	
10,00 / 5	12,00 / 5	16,00 / 5	18,00 / 4	20,00 / 4

515 mm
320 mm
360 mm

Ref. 1-81

1.392,58 €



Ref. BM4P



ESPOSITORI DI PUNTE PER LEGNO



HSS PUNTE PER LEGNO HSS IN BLISTER

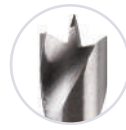
Punte BMPRB

13,00 / 6	14,00 / 6	15,00 / 6	16,00 / 6	18,00 / 6
8,00 / 10	9,00 / 10	10,00 / 10	11,00 / 10	12,00 / 6
3,00 / 18	4,00 / 18	5,00 / 15	6,00 / 15	7,00 / 15

Ref. 1-77

1.049,97 €





Ref. BMPRB

515 mm
330 mm
360 mm

HSS PUNTE PER LEGNO HSS IN FONDINA

Punte BMPR

L1 400 mm.

6x400 / 3	8x400 / 3	10x400 / 3	12x400 / 3	14x400 / 3	16x400 / 3	18x400 / 3

L1 245 mm.

6x245 / 4	8x245 / 4	10x245 / 4	12x245 / 4	14x245 / 4	16x245 / 4	18x245 / 4

L1 standard.

3,00 / 12	4,00 / 12	5,00 / 15	6,00 / 15	7,00 / 10	8,00 / 10	9,00 / 10	10,00 / 8	12,00 / 6



615 mm
330 mm
360 mm

Ref. 2-27

2.169,24 €



Ref. BMPR









Ref. BMPB

515 mm
330 mm (x2)
360 mm

Ref. 1-75

2.398,70 €



MECCHIE PIATTE PER LEGNO IN BLISTER

Punte BMPB

6,00 / 12	8,00 / 12	10,00 / 12	12,00 / 12	12,00 / 12
14,00 / 12	14,00 / 12	15,00 / 12	16,00 / 12	16,00 / 12
17,00 / 12	18,00 / 12	18,00 / 12	19,00 / 12	20,00 / 12

Punte BMPB

20,00 / 12	22,00 / 10	22,00 / 10	24,00 / 10	24,00 / 10
25,00 / 10	26,00 / 10	28,00 / 10	30,00 / 10	32,00 / 10
34,00 / 10	35,00 / 10	36,00 / 10	38,00 / 10	40,00 / 10



MECCHIE PIATTE PER LEGNO IN FONDINA

Punte BMP

26,00 / 20	28,00 / 15	30,00 / 15	32,00 / 10	35,00 / 10	40,00 / 10	
17,00 / 3	18,00 / 20	19,00 / 3	20,00 / 20	22,00 / 20	24,00 / 20	25,00 / 20
6,00 / 5	8,00 / 10	10,00 / 10	12,00 / 20	13,00 / 6	14,00 / 20	15,00 / 6	16,00 / 20



515 mm
330 mm
360 mm

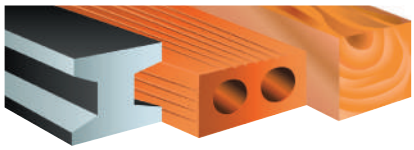
Ref. 1-28

1.593,74 €



Ref. BMP





ASTUCCI DI PUNTE PER LEGNO



P0705B

46

13 U. Ø 2 - 8 x 0,5 mm.	HSS	DIN 338		25 mm PH1 - PH2 - PH3 50 mm PH1 - PH2
5 U. Ø 4 - 5 - 6 - 8 - 10 mm.	DIN 8039			25 mm PZ1 - PZ2 - PZ3 50 mm PZ1 - PZ2
6 U. Ø 3 - 4 - 5 - 6 - 8 - 10 mm.	CV			25 mm P0,6X4,5 - P0,8X5,5 50 mm P0,6X4,5
6 U. Ø 10 - 12 - 16 - 18 - 22 - 24 mm.		1/4"		25 mm T20 - T30

Ref. PMGX60 ○ ⬢ 1/4"

99,09 €



P0706B

52

12 U. Ø 1,5 - 2 - 2,5 - 3 - 3,2 3,5 - 4 - 4,5 - 5 - 6 - 8 - 10 mm.	HSS	DIN 338		25 mm PH1 - PH2 - PH3 50 mm PH1 - PH2
11 U. Ø 3 - 4 - 4,5 - 5 - 5,5 6 - 6,5 - 7 - 8 - 9 - 10 mm.	DIN 8039			25 mm PZ1 - PZ2 - PZ3 50 mm PZ1 - PZ2
10 U. Ø 3 (x2) - 4 (x2) - 5 6 - 7 - 8 - 9 - 10 mm.	CV			25 mm P0,6X4,5 - P0,8X5,5 50 mm P0,6X4,5
⬢ 1/4" • 3 U. 6-8-10 x 48 mm				25 mm T20 - T30

Ref. PMGX60 ○ • ⬢ 1/4"

102,22 €

ESPOSITORE DI FRESE PER ELETTROFRESATRICI

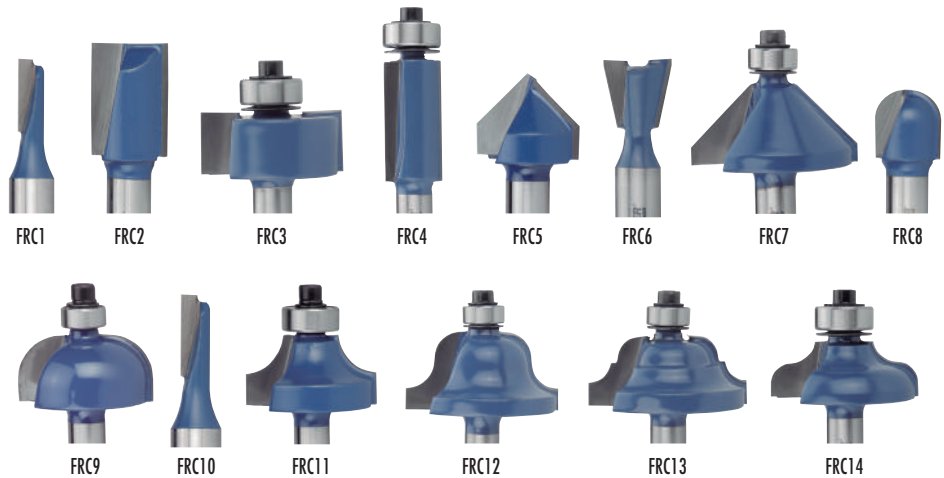




515 mm
330 mm
360 mm

Ref. 1-90

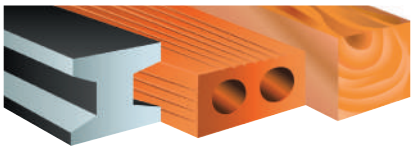
1.473,52 €



MD  FRESE PER ELETTROFRESATRICI

Frese FRC

FRC10500 2	FRC10600 2	FRC10800 2	FRC11000 2	FRC21600 2	FRC21800 2	FRC22000 2
FRC32860 2	FRC41270 2	FRC51900 2	FRC61270 2	FRC73200 2	FRC81270 2	
FRC92850 1	FRC103180 1	FRC113180 1	FRC123500 1	FRC133500 1	FRC143810 1	

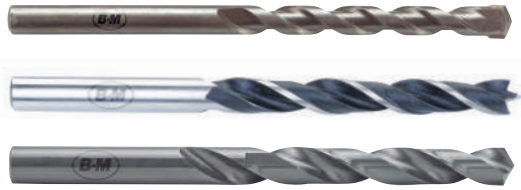


ESPOSITORI DI PUNTE MISTE



515 mm
330 mm
360 mm

Ref. 1-82
736,80 €



ESPOSITORE MISTO QUALITÀ STANDARD

BW1	3,00 / 10	4,00 / 10	5,00 / 15	6,00 / 15	8,00 / 10	10,00 / 10	Astucci	BW19325 / 5				
BM	3,00 / 10	4,00 / 10	5,00 / 10	6,00 / 10	8,00 / 10	10,00 / 10	Astucci	BM9334 / 5				
BC2	3,00 / 10	3,50 / 10	4,00 / 10	4,50 / 5	5,00 / 20	5,50 / 5	6,00 / 20	6,50 / 10	8,00 / 10	10,00 / 5		



ESPOSITORE MISTO QUALITÀ PROFESSIONALE

BW6	3,00 / 10	4,00 / 10	5,00 / 10	6,00 / 15	8,00 / 10	10,00 / 5	Astucci	BW69325 / 5				
BMPR	3,00 / 10	4,00 / 10	5,00 / 10	6,00 / 10	8,00 / 10	10,00 / 5	Astucci	BMPR9334 / 3				
BC5	3,00 / 5	3,50 / 5	4,00 / 10	4,50 / 5	5,00 / 10	5,50 / 5	6,00 / 10	6,50 / 5	8,00 / 10	10,00 / 5		

515 mm
330 mm
360 mm

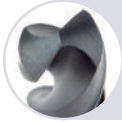
Ref. 1-83
976,06 €



PUNTE CON CODOLO HEXAGONALE 1/4" IN BLISTER







Ref. BH2B

1/4" | DIN 338 | HSS | 118° | 30° "N" | OX | 70 Kg/mm²

Giri al minuto consigliato:

METALLO	Ø 2	Ø 4	Ø 6	Ø 8	Ø 10	Ø 12
Morbido	3000	1600	950	800	630	450
Medi	2200	1200	725	625	490	375
Duro	1400	800	500	450	350	300

BH2B

	Ø mm	L1 x L2 mm			€
190x60 mm.	3,00	61 x 33	1/4"	1	7,04
	4,00	75 x 43	1/4"	1	8,93
	5,00	86 x 52	1/4"	1	11,11
	6,00	93 x 57	1/4"	1	11,99
	7,00	109 x 69	1/4"	1	14,58
230x60	8,00	117 x 75	1/4"	1	16,01
	9,00	125 x 81	1/4"	1	17,59
	10,00	133 x 87	1/4"	1	18,86







Ref. BWHB

1/4" | ★★ ★★ | DIN 8039

Giri al minuto consigliato:

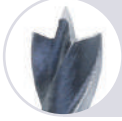
METALLO	Ø 3	Ø 5	Ø 8	Ø 10	Ø 12	Ø 13	Ø 14
Morbido	3200	1900	1300	1100	900	800	700
Duro	2100	1200	900	700	600	500	400

BWHB

	Ø mm	L1 x L2 mm			€
190x60 mm.	3,00	70x30	1/4"	1	4,26
	4,00	70x30	1/4"	1	4,60
	5,00	85x45	1/4"	1	4,98
	6,00	100x50	1/4"	1	5,56
	7,00	100x50	1/4"	1	6,50
230x60 mm.	8,00	120x70	1/4"	1	7,53
	9,00	120x70	1/4"	1	9,02
	10,00	120x70	1/4"	1	10,09
	11,00	150x80	1/4"	1	12,56
	12,00	150x80	1/4"	1	13,53
	13,00	150x80	1/4"	1	16,63
	14,00	150x80	1/4"	1	18,99







Ref. BMHB

1/4" | ★ ★★ | CV

Giri al minuto consigliato:

METALLO	Ø 3	Ø 5	Ø 8	Ø 10	Ø 12	Ø 13	Ø 14
Morbido	2000	1500	1300	1250	1200	1000	850
Duro	1400	1300	1100	1000	750	700	600

BMHB

	Ø mm	L1 x L2 mm			€
190x60 mm.	3,00	59 x 35	1/4"	1	3,45
	4,00	74 x 41	1/4"	1	3,67
	5,00	82 x 55	1/4"	1	3,62
	6,00	88 x 58	1/4"	1	4,90
	7,00	110 x 70	1/4"	1	5,54
230x60 mm.	8,00	110 x 70	1/4"	1	5,76
	9,00	110 x 70	1/4"	1	5,99
	10,00	115 x 75	1/4"	1	6,64
	11,00	135 x 85	1/4"	1	7,75
	12,00	135 x 85	1/4"	1	8,21
	13,00	135 x 90	1/4"	1	12,86
	14,00	145 x 95	1/4"	1	15,16



ESPOSITORI DI PUNTE CON CODOLO HEXAGONALE 1/4" MISTE



Ref. BH2B



Ref. BWHB



Ref. BMHB



BH2



BWH



BMH



PUNTE PER CALCESTRUZZO E LEGNO

Astucci

BWH	BWH9318 4	BWH9327 4	BMH	BMH9335 4	BMH9333 4

Punte in blister

BMHB	4,00 8	5,00 10	6,00 10	8,00 8	10,00 5
BWHB	4,00 8	5,00 10	6,00 10	8,00 8	10,00 5

Ref. 1-38

863,41 €

515 mm
330 mm
360 mm





515 mm
330 mm
360 mm

Ref. 1-39

1.115,73 €



PUNTE PER METALLO, CALCESTRUZZO E LEGNO

BH2B	4,00 10	5,00 10	6,00 10	8,00 10	10,00 10
BWHB	4,00 8	5,00 10	6,00 10	8,00 8	10,00 5
BMHB	4,00 8	5,00 10	6,00 10	8,00 8	10,00 5



PUNTE PER METALLO, CALCESTRUZZO

Astucci

BWH	BWH9318 4	BWH9327 4	BH2	BH29335 4	BH29333 4

Punte in blister

BH2B	4,00 10	5,00 10	6,00 10	8,00 10	10,00 10
BWHB	4,00 8	5,00 10	6,00 10	8,00 8	10,00 5

Ref. 1-40

1.671,13 €

515 mm
330 mm
360 mm



ESPOSITORI DI INSERTI E PORTAINSERTI



820 mm
400 mm
220 mm

Plus

Ref. 5-1

1.222,20 €

SCATOLI DA 2 PEZZI DI INSERTI INTERCAMBIABILI

25 mm	PH1-2	PH2-2	PH3-2		50 mm	PH1X50-2	PH2X50-2	PH3X50-2
	5	5	5			5	5	5
25 mm	PZ1-2	PZ2-2	PZ3-2		50 mm	PZ1X50-2	PZ2X50-2	PZ3X50-2
	5	5	5			5	5	5
25 mm	PT10-2	PT15-2	PT20-2	PT25-2	PT30-2	PT40-2		
	5	5	5	5	5	5		
50 mm	PT10X50-2	PT15X50-2	PT20X50-2	PT25X50-2	PT30X50-2	PT40X50-2		
	5	5	5	5	5	5		
25 mm	PHX2-2	PHX4-2	PHX6-2	PHX8-2				
	5	5	5	5				
25 mm	P0,6X4,5-2	P0,8X5,5-2	P1,2X6,5-2					
	5	5	5					

Ref. PMGX51 (x5) · Ref. PMGSDSX78 (x5) Portainserti magnetici
Ref. PCRX74 (x5) Portainserti magnetici a cambio rapido
Ref. PCTX60 (x5) Portainserti magnetici con collare



820 mm
400 mm
220 mm

Plus

Ref. 5-2

2.177,80 €

SCATOLI DA 5 PEZZI DI INSERTI INTERCAMBIABILI

25 mm	PH1-5	PH2-5	PH3-5		50 mm	PH1X50-5	PH2X50-5	PH3X50-5
	5	5	5			5	5	5
25 mm	PZ1-5	PZ2-5	PZ3-5		50 mm	PZ1X50-5	PZ2X50-5	PZ3X50-5
	5	5	5			5	5	5
25 mm	PT10-5	PT15-5	PT20-5	PT25-5	PT30-5	PT40-5		
	5	5	5	5	5	5		
50 mm	PT10X50-5	PT15X50-5	PT20X50-5	PT25X50-5	PT30X50-5	PT40X50-5		
	5	5	5	5	5	5		
25 mm	PHX2-5	PHX4-5	PHX6-5	PHX8-5				
	5	5	5	5				
25 mm	P0,6X4,5-5	P0,8X5,5-5	P1,2X6,5-5					
	5	5	5					

Ref. PMGX51 (x5) · Ref. PMGSDSX78 (x5) Portainserti magnetici
Ref. PCRX74 (x5) Portainserti magnetici a cambio rapido
Ref. PCTX60 (x5) Portainserti magnetici con collare



820 mm
400 mm
220 mm

Plus

Ref. 5-3

1.547,50 €

SCATOLI DA 2 E 5 PEZZI DI INSERTI INTERCAMBIABILI

25 mm	PH1-5	PH2-5	PH3-5		50 mm	PH1X50-2	PH2X50-2	PH3X50-2
	5	5	5			5	5	5
25 mm	PZ1-5	PZ2-5	PZ3-5		50 mm	PZ1X50-2	PZ2X50-2	PZ3X50-2
	5	5	5			5	5	5
25 mm	PT10-5	PT15-5	PT20-5	PT25-5	PT30-5	PT40-5		
	5	5	5	5	5	5		
50 mm	PT10X50-2	PT15X50-2	PT20X50-2	PT25X50-5	PT30X50-2	PT40X50-2		
	5	5	5	5	5	5		
25 mm	PHX2-5	PHX4-5	PHX6-5	PHX8-5				
	5	5	5	5				
25 mm	P0,6X4,5-5	P0,8X5,5-5	P1,2X6,5-5					
	5	5	5					

Ref. PMGX51 (x5) · Ref. PMGSDSX78 (x5) Portainserti Magnetici
Ref. PCRX74 (x5) Portainserti magnetici a cambio rapido
Ref. PCTX60 (x5) Portainserti magnetici con collare

ESPOSITORE DI PUNTE A SVASARE E A GRADINO





Ref. AV30B



Ref. AV40B





HSS PUNTE A SVASARE E A GRADINO DI DOPPIO TAGLIO

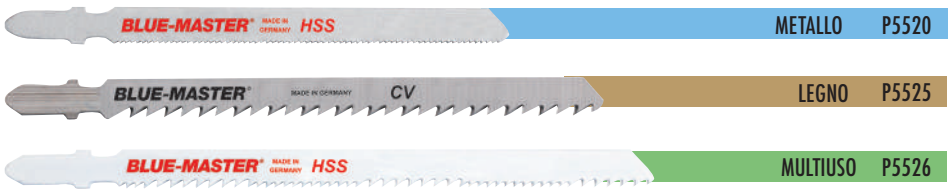
	Punte a svasare		
AV30	AV30BM0 4	AV30BM1 4	AV30BM2 4
	Punte a gradino		
AV40	AV40BM5 4	AV40BM8 4	AV40BM9 4
AV40	AV40BM2 4	AV40BM3 4	AV40BM4 4

Ref. 1-47

2.413,76 €

515 mm
330 mm
360 mm

ESPOSITORE DI LAME PER SEGHETTI ALTERNATIVI MISTE





ESPOSITORE MISTO DI LAME PER SEGHETTI ALTERNATIVI

Lame per seghetti alternativi in blister di 5 unità.

P5525 10	P5526 10	P5509 10	P5519 10
P5505 10	P5516 10	P5520 10	P5522 10
P5501 10	P5502 10	P5503 10	P5504 10



Ref. 1-33

1.477,40 €

515 mm
330 mm
360 mm





ESPOSITORE DI CORONE HA E GAMBI



515 mm
330 mm
360 mm

Ref. 1-101

1.606,44 €

SDS Plus

CORONE HA E GAMBI IN BLISTER E FONDINA

80 1	68 1	HA11x320 3	HA320SDS 3
68 1	50 2	40 2	HA220SDS 3
35 2	30 2	25 2	HA8 10	HA100SDS 3

ESPOSITORI DI SEGHE A TAZZA IN BLISTER





Ref. CB

HSS M3 | 4/6 | Al | Cu-Ni-La | GHISA | PVC



530 mm
885 mm

ALBERI — ESPOSITORE DE SEGHE A TAZZA BLUE-MASTER

B5519S	CB16B	CB19B	CB20B	CB22B	CB25B	CB27B	CB30B
Ø 14-30	Ø 16	Ø 19	Ø 20	Ø 22	Ø 25	Ø 27	Ø 30
5	3	3	3	3	3	3	3
B5546S	**CB32B**	**CB35B**	**CB40B**	**CB48B**	**CB50B**	**CB60B**	**CB68B**
Ø32-210	Ø 32	Ø 35	Ø 40	Ø 48	Ø 50	Ø 60	Ø 68
4	3	3	2	2	2	2	2

Ref. CBEXP1B

534,93 €





HSSCo 8% | 4/6 | INOX | Cu-Ni-La | GHISA



530 mm
885 mm

ALBERI — ESPOSITORE DE SEGHE A TAZZA HSSCO 8% BLUE-MASTER

B5519S	COB16B	COB19B	COB20B	COB22B	COB25B	COB27B	COB30B
Ø 14-30	Ø 16	Ø 19	Ø 20	Ø 22	Ø 25	Ø 27	Ø 30
5	3	3	3	3	3	3	3
B5546S	**COB32B**	**COB35B**	**COB40B**	**COB48B**	**COB51B**	**COB60B**	**COB68B**
Ø32-210	Ø 32	Ø 35	Ø 40	Ø 48	Ø 51	Ø 60	Ø 68
4	3	3	2	2	2	2	2

Ref. COBEXP1B

684,89 €





Tungsteno | GHISA



530 mm
885 mm

ALBERI — ESPOSITORE DE SEGHE A TAZZA MASTER-GRIT

B5519-CMS	B8537S	MG19B	MG20B	MG22B	MG25B	MG29B	MG32B
Ø 14-30	Broca Guía	Ø 19	Ø 20	Ø 22	Ø 25	Ø 29	Ø 32
5	6	3	3	3	3	3	3
B5546-CMS	**MG35B**	**MG38B**	**MG44B**	**MG48B**	**MG51B**	**MG60B**	**MG70B**
Ø32-210	Ø 35	Ø 38	Ø 44	Ø 48	Ø 51	Ø 60	Ø 70
3	3	2	2	2	2	2	2

Ref. REMEXPB

944,44 €

SPAZIO COMMERCIALE BLUEMASTER

CREARE NUOVI SPAZI COMMERCIALI E MOLTIPLICARE LE VENDITE DI UTENSILI DA TAGLIO



TESTATA DELL'ESPOSITORE PER LA IDENTIFICAZIONE DELLA FAMIGLIA DI UTENSILE DA TAGLIO

Illuminazione frontale e verticale della superficie di esposizione.



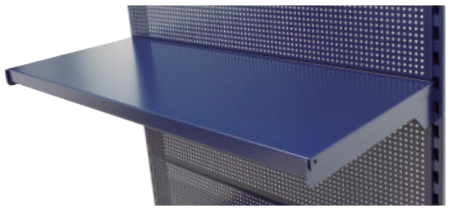
TUTTI I TIPI DI SOLUZIONI SU MISURA PER GENERARE L'AMBIENTE PIÙ PREFERITO IN VENDITA

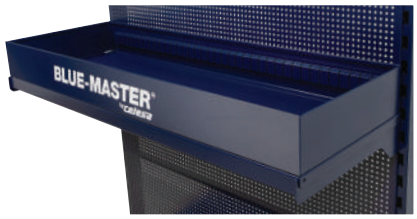
Vetrine disponibili per conservare in sicurezza oggetti di alto valore.











GENERARE LO SPAZIO COMMERCIALE PIÙ ADATTO CON LA GAMMA PIÙ AMPIA DI ESPOSITORI DISPONIBILE

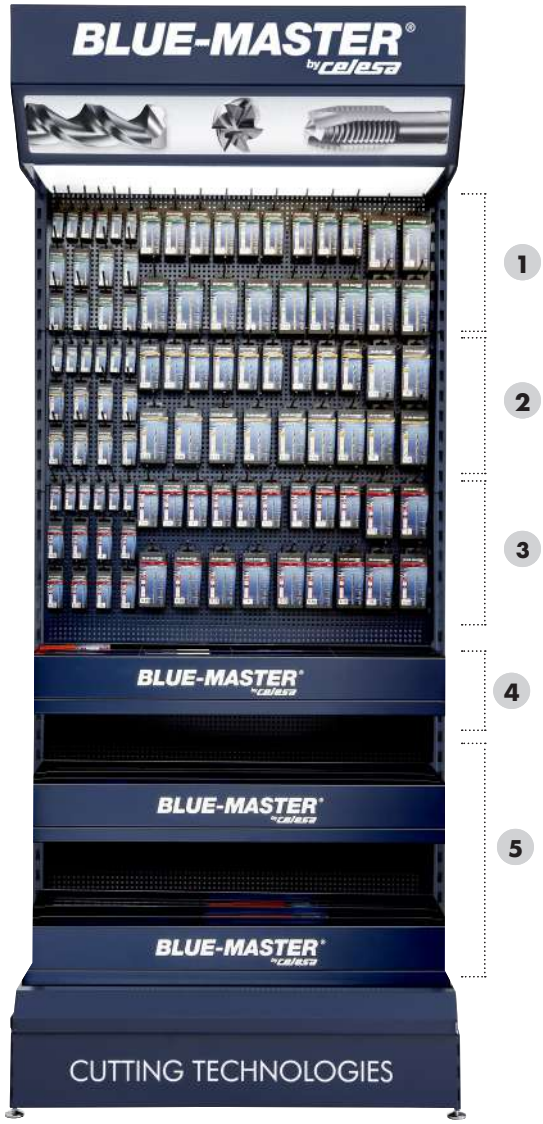
Crea l'ambiente perfetto attraverso corridoi con schermi di diverse altezze.

AMPIA GAMMA DI ACCESSORI PER POSIZIONARE CORRETTAMENTE OGNI PRODOTTO

Ottieni il massimo dalla superficie e dal volume della esposizione per ottenere la massima redditività.



IMPIANTO PER FORNITURE INDUSTRIALI SPECIALIZZATE



2.480 mm
1.000 mm
400 mm

IMPIANTO DI PUNTE PER METALLO

1 Ref. BC5 HSSCo 5%				2 Ref. BC2 HSS			3 Ref. BC02 HSSG		
2,00 / 100	2,25 / 50	2,50 / 100	2,75 / 30	3,00 / 100	3,25 / 50	3,50 / 50	3,75 / 30	4,00 / 100	4,25 / 50
4,50 / 50	4,75 / 30	5,00 / 100	5,25 / 50	5,50 / 50	5,75 / 50	6,00 / 80	6,25 / 20	6,50 / 50	6,75 / 20
7,00 / 50	7,25 / 20	7,50 / 30	7,75 / 20	8,00 / 60	8,25 / 20	8,50 / 30	8,75 / 20	9,00 / 50	9,25 / 10
9,50 / 20	9,75 / 10	10,00 / 60	10,50 / 20	11,00 / 12	11,50 / 6	12,00 / 12	12,50 / 6	13,00 / 6	14,00 / 6

4 Ref. BC9 HSS	12,70	Punte per metallo codolo ridotto							
14,00 / 6	14,50 / 2	15,00 / 6	15,50 / 2	16,00 / 6	16,50 / 2	17,00 / 3	18,00 / 4	19,00 / 2	20,00 / 3

5 Ref. BC11 HSS DIN 345				Punte Codolo Conico					
10,00 / 4	10,50 / 2	11,00 / 4	11,50 / 2	12,00 / 4	12,50 / 2	13,00 / 4	13,50 / 2	14,00 / 4	14,50 / 2
15,00 / 4	15,50 / 2	16,00 / 4	16,50 / 2	17,00 / 4	17,50 / 2	18,00 / 4	18,50 / 2	19,00 / 4	19,50 / 2
20,00 / 4	20,50 / 2	21,00 / 3	21,50 / 1	22,00 / 3	22,50 / 1	23,00 / 2	23,50 / 1	24,00 / 2	24,50 / 1
25,00 / 2	25,50 / 1	26,00 / 2	26,50 / 1	27,00 / 2	27,50 / 1	28,00 / 2	28,50 / 1	29,00 / 1	30,00 / 2
31,00 / 1	32,00 / 2	35,00 / 1	40,00 / 1	45,00 / 1	50,00 / 1				

FL01

30.509,79 €

IMPIANTO PER FORNITURE INDUSTRIALI SPECIALIZZATE



2.480 mm
1.000 mm
400 mm

IMPIANTO SILVER

1 Ref. BC2B **HSS** Punte metallo in blister e astucci

1,00	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50
15	15	15	15	15	15	15	15	15	15	15	15

7,00	7,50	8,00	8,50	9,00	10,00	10,50	11,00	12,00	13,00	DR9312	DR9314
15	10	10	10	10	10	10	10	10	10	4	4

2 Ref. BC5B **HSSCo** Punte metallo in blister e astucci

3,00	3,50	4,00	4,50	5,00	6,00	7,00	8,00	10,00	12,00	13,00	DC9312	DC9314
15	15	15	15	15	15	15	10	10	10	10	4	4

3 Ref. BW6B Punte per edilizia in blister e astucci

3,00	4,00	5,00	6,00	7,00	8,00	9,00	10,00	11,00	12,00	14,00	BW69325
15	15	15	15	15	10	10	10	10	10	10	4

4  Lame per seghetti alternativi

P5503	P5501	P5554	P5525	P5512
6	6	6	6	6

5 Ref. BMPB **CV** Mecchie piatte per legno

12,00	14,00	16,00	18,00	20,00	22,00	25,00	28,00	30,00
6	6	6	6	6	6	6	6	6

6 Ref. COB..B **HSSCo 8%** 4/6 Seghe a tazza

20	22	25	27	29	30	32	35	40	48	51	54	60	68	70
2	2	2	2	2	2	2	2	1	1	1	1	1	1	1

7 Gambi

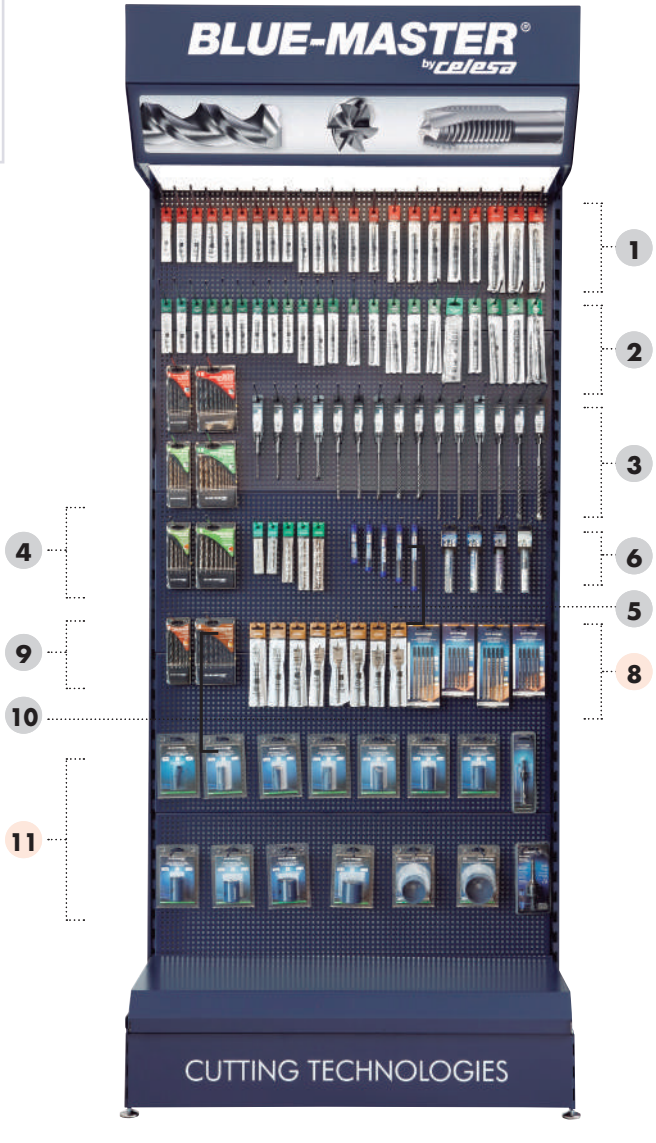
B5519	B5546
2	2

8 Ref. BW7 Punte per gres, porcellana e ardesia

4,00	5,00	6,00	8,00	10,00	BW79325
4	4	4	4	4	4

SILVER	SILVER
5.727,42 €	754,83 €

IMPIANTO PER FORNITURE INDUSTRIALI SPECIALIZZATE



2.480 mm
1.000 mm
550 mm

IMPIANTO GOLD

1 Ref. BC2F **HSS** Punte metallo in fondina e astucci

1,00	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50
10	10	10	10	10	10	10	10	10	10	10	10

7,00	7,50	8,00	8,50	9,00	9,50	10,00	11,00	12,00	13,00	DR9312	DR9314
10	10	10	10	10	10	10	5	5	5	2	2

2 Ref. BC5F **HSSCo** Punte metallo in fondina e astucci

1,00	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50
10	10	10	10	10	10	10	10	10	10	10	10

7,00	7,50	8,00	8,50	9,00	9,50	10,00	11,00	12,00	13,00	DC9312	DC9314
10	10	10	10	10	10	10	5	5	5	2	2

3 Ref. W05 **SDS PLUS** Punte per edilizia

4x110	6x110	8x110	10x110	4x160	6x160	8x160	10x160
6	6	6	6	6	6	6	6

12x160	6x200	8x200	10x200	12x200	14x200	16x200
6	6	6	6	6	6	6

4 Ref. BW6F Punte per edilizia in fondina e astucci

3,00	4,00	6,00	8,00	10,00	BW69318	BW69319
10	10	10	10	10	2	2

5 Ref. BW7 Punte per gres, porcellanico e ardesia

4,00	5,00	6,00	8,00	10,00
8	8	8	8	8

6 Ref. CPS Punte in diamante saldato a vuoto per pocellanici

5,00	6,00	8,00	10,00
3	3	3	3

8  Lame per seghetti alternativi

P5525	P5503	P5524	P5536
4	4	4	4

9 Astucci per legno

BM9333	BM9334
2	2

10 Ref. BMP **CV** Mecchie piatte per legno

16,00	18,00	20,00	22,00	24,00	26,00	28,00	30,00
2	2	2	2	2	2	2	2

11 Ref. COB **HSSCo 8%** 4/6 Seghe a tazza

16	19	21	25	27	30	32	35	40	48	51	60	70
2	2	2	2	2	2	2	2	2	2	2	2	2

12 Gambi

B5519S	B5546S
4	4

GOLD	GOLD
5.399,86 €	765,14 €

IMPIANTO PER FORNITURE ELETTRICHE



2.480 mm
1.000 mm
550 mm

IMPIANTO PER FORNITURE ELETTRICHE

1 Ref. W05 **SDS PLUS** Punte per edilizia

5x110	6x110	8x110	10x110	5x160	6x160	8x160	10x160	12x160	
10	10	10	10	10	10	10	10	10	
8x200	10x200	12x200	14x200	16x200	18x200	12x450	14x450	16x450	18x450
6	6	6	5	5	5	3	3	3	3

2 Ref. BW6F Punte per edilizia in fondina

3,00	4,00	5,00	6,00	7,00	8,00	9,00	10,00	12,00	14,00
30	30	60	60	30	50	20	20	20	20

3 Ref. BC2F **HSS** Punte per metallo in fondina

1,00	2,00	3,00	4,00	5,00	6,00	7,00	8,00	9,00	10,00	12,00
10	10	10	10	10	10	10	10	10	10	10

4 Ref. CB..B **HSS M3** 4/6 Seghe a tazza

16	20	25	29	38	40	48	50	54	60	73	83
4	4	4	4	3	3	3	3	3	2	2	2

5 Gambi

B5519S	B5546S
6	6

6 Ref. AV30B Svasatori

AV30BM0B	AV30BM1B	AV30BM2B
3	3	3

Ref. AV40B Punte a gradino a canali dritti

AV40BM2B	AV40BM4B
3	3

7 Lame per seghetti alternativi

P5501	P5504	P5511	P5514
10	10	10	10

8 Lame per seghetti alternativi

1224ULBM-50
1

9 Seghe regolabile a compasso

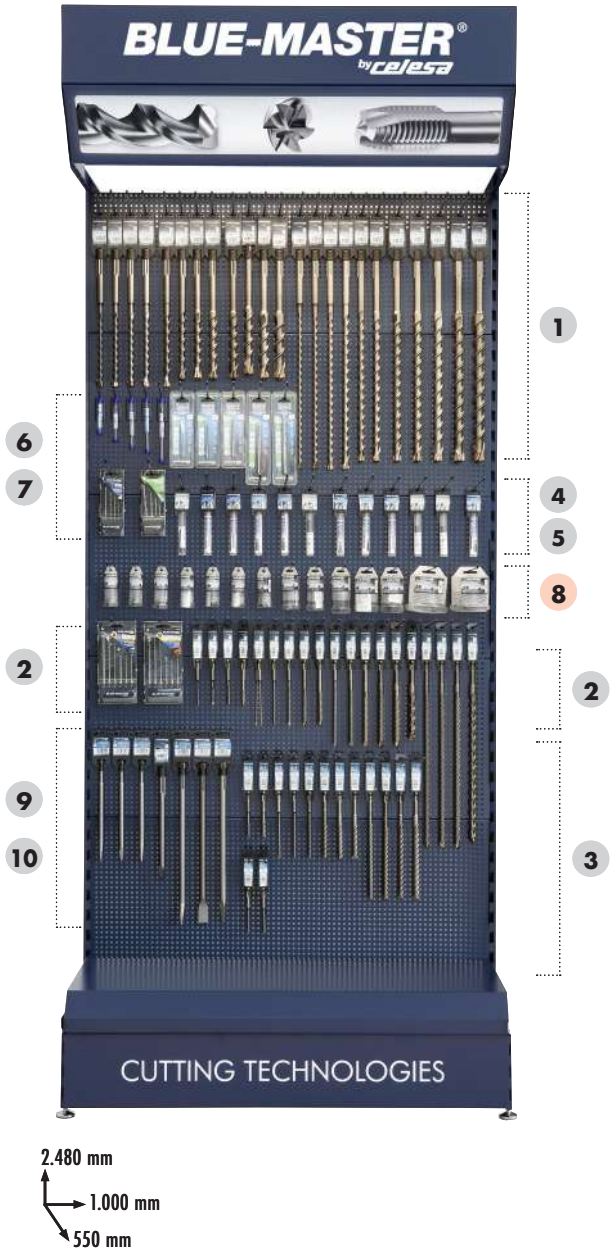
CL220	CL285
1	1

10 Seghe ad Arco

ASYH2009
2

EXPOSITORF	EXPOSITORF
3.620,04 €	**2.368,74 €**

IMPIANTO PER FORNITURE INDUSTRIALI SPECIALIZZATE



2.480 mm
1.000 mm
550 mm

IMPIANTO PER MATERIALE EDILIZIA

1 Ref. AX **SDS MAX** — Punte per edilizia

12x340 / 2	12x540 / 2	14x340 / 2	14x540 / 2	15x340 / 2	16x340 / 2	16x540 / 2	18x340 / 2
18x540 / 2	20x320 / 2	20x520 / 2	22x320 / 1	22x520 / 1	24x320 / 1	24x520 / 1	25x320 / 1
25x520 / 1	26x320 / 1	26x520 / 1	28x320 / 1	28x520 / 1	30x320 / 1	30x520 / 1	

2 Ref. W05 **SDS PLUS** — Punte per edilizia

5x110 / 3	6x110 / 3	8x110 / 3	10x110 / 3	5x160 / 3	6x160 / 3	8x160 / 3	10x160 / 3
12x160 / 3	8x200 / 2	10x200 / 2	12x200 / 2	14x200 / 2	16x200 / 2	18x200 / 2	12x450 / 2
14x450 / 2	16x450 / 2	18x450 / 2	W05D9412 / 2				

3 Ref. W77 **SDS PLUS** — Punte per edilizia

5x115 / 3	6x115 / 3	8x115 / 3	10x115 / 3	5x165 / 3	6x165 / 3	8x165 / 3	10x165 / 3	12x165 / 3
10x265 / 2	12x265 / 2	14x265 / 2	16x265 / 2	W77D9412 / 2				

4 Ref. CPH — Punte in diamante saldato a vuoto per pocellanici

5,00 / 2	6,00 / 2	8,00 / 2	10,00 / 2	12,00 / 2	14,00 / 2

5 Ref. CPS — Punte in diamante saldato a vuoto per pocellanici

5,00 / 2	6,00 / 2	8,00 / 2	10,00 / 2	12,00 / 2	14,00 / 2

6 Ref. BW7 — Punte per edilizia

4 / 5	5 / 5	6 / 5	8 / 5	10 / 5	BW79325 / 2

7 Ref. BW9 — Punte per edilizia

4 / 5	5 / 5	6 / 5	8 / 5	10 / 5	BW99325 / 2

8 Ref. CSE — Frese a tazza in diamante

5 / 2	6 / 2	8 / 2	10 / 2	14 / 2	20 / 2	25 / 2	30 / 2
35 / 2	40 / 2	45 / 2	50 / 2	68 / 2	83 / 2		

9 Ref. SDS PLUS — Scalpelli

C02250 / 2	CA02250 / 2	P02250 / 2

10 Ref. SDS MAX — Scalpelli

C01400 / 2	C0150 / 2	P01400 / 2	P01280 / 2

EXPOSITORG	EXPOSITORG
8.237,27 €	2.597,40 €

IMPIANTO PER FORNITURE INDUSTRIALI SPECIALIZZATE



2.480 mm
1.000 mm
550 mm

IMPIANTO DISCHI DIAMANTATI

1 Ref. BW35 DELTA 3 PLUS

5x100 / 10	6x100 / 10	8x120 / 10	10x120 / 10	12x150 / 10	5x150 / 5	6x150 / 5
8x200 / 5	10x200 / 5	12x200 / 5	BW359328 / 4			

2 Ref. FTK Lame ad oscillazione Starlock

FTK5106 / 5	FTK5110 / 5	FTK5140 / 5	FTK5117 / 5	FTK5147 / 5
FTK5132 / 5	FTK5108 / 5	FTK5129 / 5	FTK5113 / 5	

3 Ref. BW33 Rastrello in carburo per smerigliatrice

8 / 2	10 / 2	12 / 2	ADQCA / 2

4 DISCHI DIAMANTATI

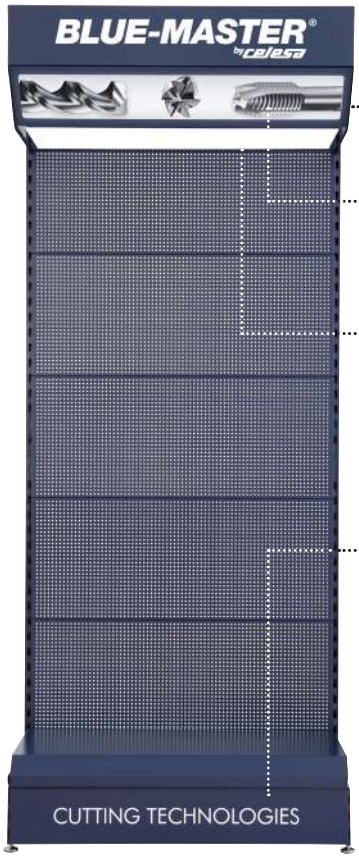
DD5-115 / 3	DD5-125 / 5	DD5-180 / 2	DD5-230 / 2	DD1-115 / 5
DD1-125 / 10	DD1-180 / 2	DD1-230 / 2	DD2-115 / 3	DD2-125 / 5
DD2-180 / 2	DD2-230 / 2	DD3-115 / 3	DD3-125 / 5	DD3-180 / 2
DD3-230 / 2	DD4-115 / 3	DD4-125 / 5	DD4-180 / 2	DD4-230 / 2
DD6-115 / 3	DD6-125 / 5	DD6-180 / 2	DD6-230 / 2	

5 Ref. SCMD DISCO DA TAGLIO MULTIUSO

SCMD115X1,60 / 2	SCMD125X1,60 / 2	SCMD230X1,60 / 2

EXPOSITORH	EXPOSITORH
972,24 €	3.742,07 €

ESPOSITORE LINEARE ALTO BLUEMASTER



DOPPIA ILUMINAZIONE,
IMMAGINE PREMIUM NELLA SALA DI VENDITA

IMMAGINE AZIENDALE
CON ILLUMINAZIONE FRONTALE

ILUMINAZIONE VERTICALE
DALL'INTERNO DELL'ESPOSITORE

SLOGAN AZIENDALE

2.480 mm
1.000 mm
550 mm

EXPOSITORBM

961,00 €

COLONNA PER LINEARE ALTO BLUEMASTER



LOGO
SERIGRAFATO

Il componente preciso
per quadrare il suo impianto

2.480 mm
300 mm
550 mm

EXPCOLUMNABM

395,95 €

VETRINA ALTA PER ESPOSITORE LINEARE BLUEMASTER



METACRILATO
DI ALTA RESISTENZA

DOPPIA
ANTA BATTENTE

CHIUSURA CON CHIAVE
ALTA SICUREZZA

La soluzione perfetta per esporre articoli di alto valore, in totale sicurezza.

1.900 mm
1.000 mm
400 mm

EXPVITRINAALTABM

935,95 €

Espositore non incluso

VETRINA BASSA PER ESPOSITORE LINEARE BLUEMASTER



VASSOIO DI CRISTAL
DI CHIUSURA SUPERIORE

METACRILATO
DI ALTA RESISTENZA

DOPPIA
ANTA BATTENTE

CHIUSURA CON CHIAVE
ALTA SICUREZZA

1.150 mm
1.000 mm
400 mm

EXPVITRINABAJABM

732,15 €

Espositore non incluso

VASSOIO A CASSETTO PER LINEARE BLUEMASTER



GRANDE CAPACITÀ DI STOCCAGGIO
NEL SUO ESPOSITORE

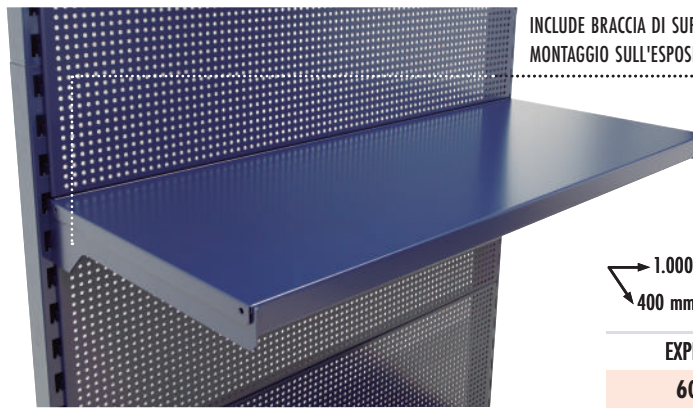
INCLUDE BRACCIA DI SUPPORTO PER
MONTAGGIO SULL'ESPOSITORE



1.000 mm
350 mm
100 mm

EXPBANDEJACAJONBM
123,35 €

VASSOIO PIANO PER ESPOSITORE LINEARE BLUEMASTER

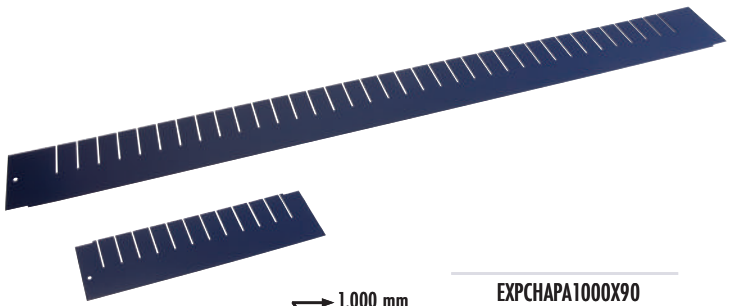


INCLUDE BRACCIA DI SUPPORTO PER
MONTAGGIO SULL'ESPOSITORE

1.000 mm
400 mm

EXPBANDEJABM
60,70 €

SEPARATORE CASETTO BLUEMASTER



1.000 mm
90 mm

EXPCHAPA1000X90
11,95 €

350 mm
90 mm

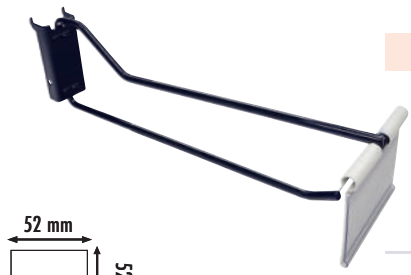
EXPCHAPA350X90
6,63 €

GANCIO ESPOSITORE BLUEMASTER



200 mm
4 mm

EXPGANCHOBM
2,26 €



52 mm
52 mm

EXPGANCHOBM2
4,26 €

ESPOSITORE LINEARE BASSO A 1 LATO BLUEMASTER

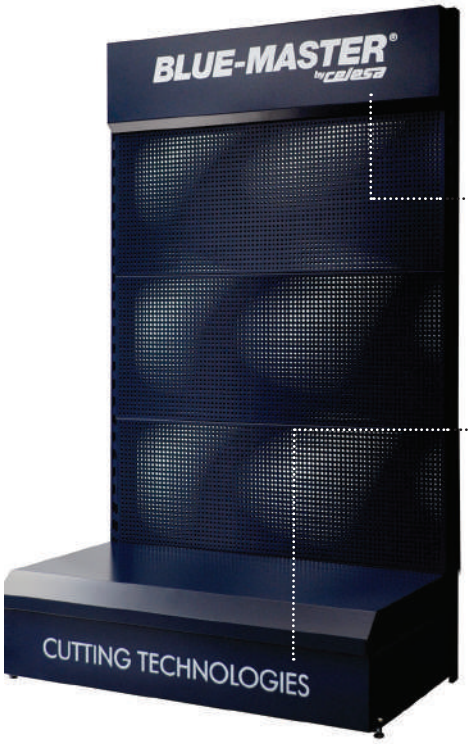


IMMAGINE AZIENDALE
IN TESTATA SUPERIORE

SLOGAN AZIENDALE

1.680 mm
1.000 mm
550 mm

EXPOSITORBAJO1BM

493,28 €

VETRINA BASSA PER ESPOSITORE LINEARE BLUEMASTER



VASSOIO DI CRISTAL
DI CHIUSURA SUPERIORE

METACRILATO
DI ALTA RESISTENZA

DOPPIA
ANTA BATTENTE

CHIUSURA CON CHIAVE
ALTA SICUREZZA

1.150 mm
1.000 mm
400 mm

EXPVITRINABAJABM

732,15 €

Espositore non incluso

ESPOSITORE LINEARE BASSO A 2 LATI BLUEMASTER



IMMAGINE AZIENDALE
IN TESTATA SUPERIORE

LA SOLUZIONE IDEALE DA GENERARE
CORRIDORI NELLO SPAZIO ESPOSITIVO

SLOGAN AZIENDALE



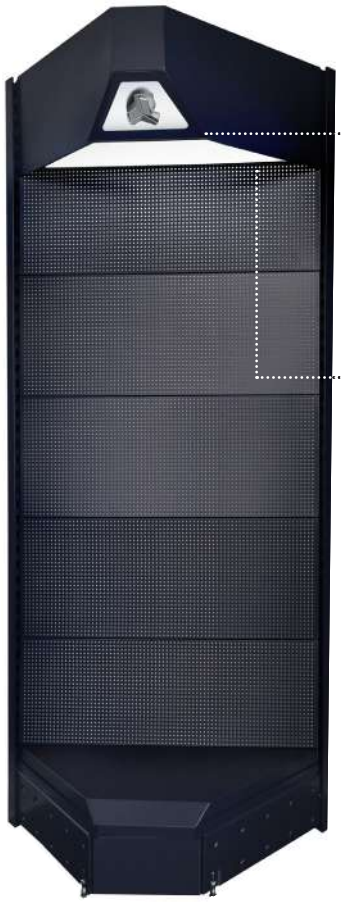


1.680 mm
1.000 mm
550 mm

EXPOSITORBAJO2BM

801,95 €

ESPOSITORE ALTO PER ANGOLO BLUEMASTER



DOPPIA ILUMINAZIONE, IMMAGINE PREMIUM
NELLA SALA DI VENDITA

ILUMINAZIONE VERTICALE
DALL'INTERNO DELL'ESPOSITORE

EXPESQUINABM

735,73 €

2.480 mm
1.000 mm
320/550 mm



Massimizzare la redditività della sua superficie commerciale.
Bluemaster gli offre la soluzione più ampia sul mercato per generare il miglior spazio di vendita dedicato agli utensili.

COLONNA ALTA PER ANGOLO BLUEMASTER



LOGO
SERIGRAFATO

Il componente preciso
per quadrare il suo impianto

2.480 mm
1.000 mm
320/550 mm

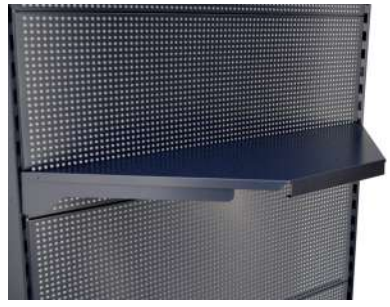
EXPESQCOLUMNABM

441,40 €

VASSOIO PIATTO PER ESPOSITORE AD ANGOLO BLUEMASTER



INCLUDE BRACCIA DI SUPPORTO PER
MONTAGGIO SULL'ESPOSITORE



1.000 mm
320/550 mm

EXPESQBANDEJABM

60,70 €

ESPOSITORE 3 PIANI BLUEMASTER Nº 1



515 mm
330 mm
360 mm

EXPOSITOR1V
97,85 €

ESPOSITORE 3 PIANI BLUEMASTER Nº 2



615 mm
330 mm
360 mm

EXPOSITOR2V
97,85 €

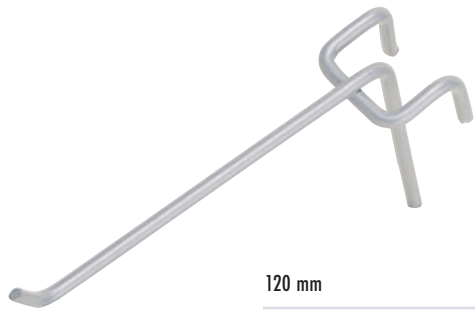
ESPOSITORE DA BANCO BLUEMASTER Nº 5



820 mm
400 mm
220 mm

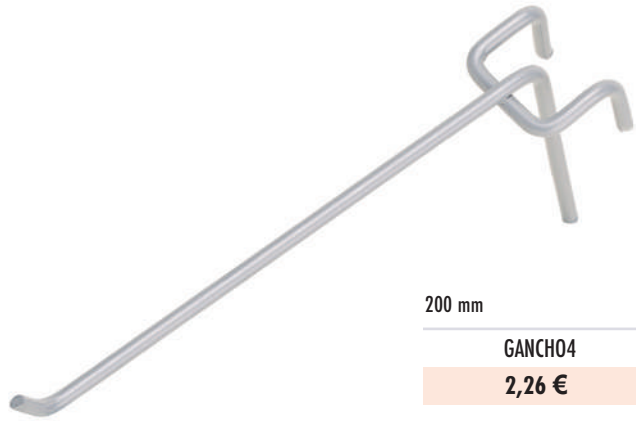
EXPOSITOR5V
71,75 €

GANCIO ESPOSITORE 3 PIANI BLUEMASTER



120 mm

GANCHO3
2,26 €



200 mm

GANCHO4
2,26 €

BLUE-MASTER® by celesa



RIPARAZIONE DI FILETTATURE

Realizzati in acciaio inox al cromo nichel di alta qualità (AISI 304), gli inserti per la riparazione delle filettature Power Coil offrono un'elevata resistenza alla temperatura e alla corrosione. Il suo design unico garantisce filettature di qualità superiore le cui prestazioni non possono essere eguagliate da nessun altro metodo di sicurezza. Sono disponibili in due presentazioni base, standard e autobloccante o di sicurezza, sono molto più leggeri e meno costosi di qualsiasi altro tipo di inserto equivalente e date le loro dimensioni compatte possono generalmente essere incorporati in progetti esistenti dove non è necessario alcun tipo di riparazione.

Inserti Standard

Realizzati in filo di il acciaio inox austenitico e sagomati con precisione in una spirale elicoidale, gli inserti Power Coil standard sono a forma di molla Quando sono installati utilizzando uno qualsiasi degli utensili, manuali o automatici, forniscono filettature interne resistenti e permanenti che resistono al calore e alla corrosione.

Una volta installati, la loro posizione è mantenuta dall'azione di pressione radiale tra le filettature e le scanalature del foro filettato. Questa pressione esiste perché il suo diametro libero è leggermente maggiore di quello installato in una piccola proporzione calcolata in precedenza.

Inserti Autobloccanti (di Sicurezza)

L'inserto autobloccante è particolarmente adatto per applicazioni soggette a vibrazion i ciclici o urti. Oltre ai vantaggi forniti dagli inserti standard, gli inserti autobloccanti (di sicurezza) Power Coil offrono ulteriore sicurezza grazie alla loro auto frenatura interna che lo rende più efficace.

Ciò è ottenuto grazie all'azione di un cerchio poligonale del filetto dell'inserto posizionato lungo di esso, che esercita una pressione radiale sui filetti della vite.

Quando il filetto passa attraverso queste fili di sicurezza, i dispositivi si espandono applicando gradualmente una pressione radiale o un freno efficace sulla filettatura della vite. Quando si rimuove la vite filettata, i fili di sicurezza rilassano la loro espansione alla loro forma originale, consentendo la filettatura ripetuta della vite e mantenendo il suo livello di pressione radiale di sicurezza.

Caratteristiche e Vantaggi

Per molti anni gli inserti elicoidali sono stati sottovalutati. Il concetto popolare di essere progettato per riparare filettature danneggiate ha dato a questo sistema único, questa falsa immagine.

Sono molto più leggeri e meno costosi di qualsiasi altro tipo equivalente di inserto filettato e, a causa delle loro dimensioni compatte, possono generalmente adattarsi a progetti preesistenti dove non è richiesta alcuna riparazione aggiuntiva. Oltre ad altri vantaggi economici, il suo utilizzo aumenta la qualità e le prestazioni riducendo il costo totale del prodotto. Il suo utilizzo è efficace per usare materiali più sottili o leggeri senza sacrificare la resistenza del filo.

Gli inserti proteggono le filetatture originali da possibili guasti dovuti a perdita di filetti, perdita di misura, corrosione o usura. Gli inserti Power Coil sono realizzati in filo di acciaio inox austenitico, che gli consente di lavorare con una resistenza alla tensione di 200.000 psi e una durezza di RC 43-50. Gli inserti hanno una finitura superficiale talmente fine che elimina virtualmente l'attrito che induce alla possibile usura.

Resistenza

Grazie alla loro flessibilità, gli inserti conformano filettature interne che hanno una distribuzione del carico residuo molto migliore rispetto ai fori filettati convenzionali, dove una percentuale maggiore del 70% delle forze di taglio è esercitata dalle prime tre filettature nel foro filettato. La flessibilità degli inserti aiuta a compensare gli errori del passo e dell'angolo del fianco, inerenti ai fori normali filettati, e migliora significativamente la capacità di carico per deflessione delle forze residue all'interno della filettatura dove la pressione viene dispersa verso le pareti del foro filettato. Ciò rende il design molto affidabile e ad alta resistenza utilizzando filettature più piccole e più corte anche quando gli inserti vengono utilizzati in materiali meno resistenti.

Gli inserti Power Coil ad alta flessibilità riducono il loro diametro durante l'installazione. La forza dell'inserto quando si espande nel foro fissa l'inserto nella sua posizione corretta. Ogni filetto può essere flesso indipendentemente per entrare in contatto con la maggior quantità di materiale sulla superficie della filettatura.

Standard di riferimento

SBAC AS 6734 e 8456
Standard della British Society of Aerospace Companies. Specifico per gli inserti liberi de filettatura UNC, requisito obbligatorio richiesto dalla Società. In realtà, molto simile allo Standard Militare.

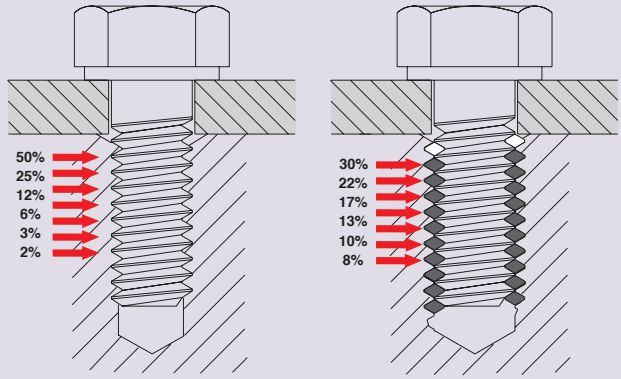
SBAC AS 6733 e 8455
Stesso requisito del precedente, esteso a tutti gli inserti liberi in generale.

BS
Standard britannico per inserti di piccolo diametro. È lo standard generale per tutti i produttori di inserti, equivalente a DIN8140.

NASM3279, 3280 e 3281
Standard militare per inserti liberi. Gli inserti secondo lo standard militare hanno un diametro maggiore nello stato libero rispetto agli inserti comuni, il che li rende più difficili da installare e da rimuovere. CELESA può fornire e certificare questo tipo di inserti su richiesta. Lo standard tedesco DIN8140 per inserti di uso generale ha tolleranze simili a quelle degli inserti secondo lo standard militare.

LN9499
Standard aerospaziale tedesco. Non in uso, sebbene CELESA possa fornire e certificare questo tipo di inserti su richiesta.

DIN8140
Gli inserti Powercoil distribuiti da CELESA sono conformi ai requisiti previsti allo Standard DIN8140.



powercoil by celesa



INSERTI FILETTATI

Codice 35 20 - 12.00 X 1.5D

35	PowerCoil in acciaio inox
36	Loksert in acciaio al carbonio
37	Loksert in acciaio inox

DIAMETRO

XX . XX	Metriche
XX / XX	Pollici

20	Metriche	32	UNC
21	Metriche fine	34	UNF
22	Candele	44	BA
23	Metriche fine	46	BSP
24	Metriche fine	52	NPT
28	BSW	60	BSB
30	BSF	70	8-UN
00	Multifunzionale		

X.XD	Lunghezza del inserto	INC	Inconel X-750
IR	Bobina di alimentazione di inserti	NM	Nimonic 90
SL	Inserti Autobloccanti (di Sicurezza)	NT	Nitronic 60
K	Scatole di riparazione del filato	Y	Acciaio inossidabile 316
P	Blister di inserti per appendere	CD	Cadmio finito
WK	Scatole complete per officina	ZN	Zinco finito
HIT	Utensile di installazione manuale in serie corta	AG	Finitura argento
HIP	Utensile di installazione serie media	FL	Lubrificato a secco
MIT	Utensile per inserti a macchina	I	Maschio 4-5 filetti
HIM	Utensile per inserti con codolo esagonale	T	Maschio 6-8 filetti
MIP	Utensile di installazione pneumatico	B	Maschio 2-3 filetti
TB	Utensile rompi colla manuale	SF	Maschio di Macchina elicoidale
STB	Utensile rompi-colla automatico	SP	Maschio di Macchina con inserimento corretto
PTB	Utensile rompi colla pneumatico	FT	Maschio di laminazione
RT	Inserisci strumento estrattore	PD	Loksert a parete sottile
LH	Svolta a sinistra	PR	Loksert a parete rinforzata
GC	Tester di tolleranza del filo 4H5H	TT	Utensile di installazione Loksert a parete sottile
GM	Tester di tolleranza del filo 6H	HT	Utensile di installazione Loksert a parete rinforzata
PB	Bronzo con fosforo	T	Utensile di installazione universale per Loksert

INSERTO LIBERO

M MF | FREE | M/MF | AISI 304 | BS7752 DIN8140 | NASM3279 NASM3280 NASM3281 LN9039 | ...D







		Ø	L 1.0D mm	€ <500	€ 500-999	€ 1000-...	L 1.5D mm	€ <500	€ 500-999	€ 1000-...	L 2.0D mm	€ <500	€ 500-999	€ 1000-...	Unit
M 2x0.40	**3520-2.00**	2.10	2.00	**0,48**	**0,45**	**0,43**	3.00	**0,49**	**0,47**	**0,44**	4.00	**0,50**	**0,49**	**0,48**	100
M 2.20x0.45	**3520-2.20**	2.30	2.20	**0,48**	**0,45**	**0,43**	3.30	**0,49**	**0,47**	**0,44**	4.40	**0,50**	**0,49**	**0,48**	100
M 2.50x0.45	**3520-2.50**	2.60	2.50	**0,28**	**0,25**	**0,23**	3.75	**0,29**	**0,26**	**0,25**	5.00	**0,34**	**0,29**	**0,27**	100
M 3x0.50	**3520-3.00**	3.20	3.00	**0,28**	**0,25**	**0,24**	4.50	**0,29**	**0,26**	**0,25**	6.00	**0,34**	**0,27**	**0,26**	100
M 3.50x0.60	**3520-3.50**	3.70	3.50	**0,34**	**0,29**	**0,27**	5.25	**0,35**	**0,32**	**0,29**	7.00	**0,38**	**0,35**	**0,32**	100
M 4x0.70	**3520-4.00**	4.20	4.00	**0,27**	**0,23**	**0,22**	6.00	**0,28**	**0,25**	**0,24**	8.00	**0,34**	**0,27**	**0,26**	100
M 5x0.80	**3520-5.00**	5.20	5.00	**0,34**	**0,27**	**0,26**	7.50	**0,27**	**0,26**	**0,25**	10.00	**0,38**	**0,30**	**0,28**	100
M 6x1.00	**3520-6.00**	6.30	6.00	**0,35**	**0,28**	**0,26**	9.00	**0,28**	**0,26**	**0,25**	12.00	**0,42**	**0,38**	**0,36**	100
M 7x1.00	**3520-7.00**	7.30	7.00	**0,39**	**0,35**	**0,32**	10.50	**0,45**	**0,39**	**0,37**	14.00	**0,50**	**0,44**	**0,41**	100
M 8x1.00	**3521-8.00**	8.30	8.00	**0,40**	**0,38**	**0,36**	12.00	**0,42**	**0,40**	**0,36**	16.00	**0,53**	**0,45**	**0,42**	100
M 8x1.25	**3520-8.00**	8.30	8.00	**0,35**	**0,30**	**0,28**	12.00	**0,38**	**0,32**	**0,29**	16.00	**0,50**	**0,42**	**0,40**	100
M 9x1.25	**3520-9.00**	9.40	9.00	**0,50**	**0,45**	**0,43**	13.50	**0,64**	**0,60**	**0,54**	18.00	**0,67**	**0,61**	**0,56**	100
M 10x1.00	**3523-10.00**	10.30	10.00	**0,44**	**0,40**	**0,38**	15.00	**0,50**	**0,44**	**0,41**	20.00	**0,60**	**0,50**	**0,47**	100
M 10x1.25	**3521-10.00**	10.30	10.00	**0,44**	**0,39**	**0,37**	15.00	**0,50**	**0,44**	**0,41**	20.00	**0,60**	**0,54**	**0,49**	100
M 10x1.50	**3520-10.00**	10.40	10.00	**0,44**	**0,38**	**0,36**	15.00	**0,50**	**0,42**	**0,40**	20.00	**0,60**	**0,49**	**0,46**	100
M 11x1.00	**3523-11.00**	11.30	11.00	**0,60**	**0,51**	**0,48**	16.50	**0,88**	**0,80**	**0,74**	22.00	**1,22**	**1,09**	**1,02**	100
M 11x1.25	**3521-11.00**	11.30	11.00	**0,60**	**0,51**	**0,48**	16.50	**0,74**	**0,71**	**0,66**	22.00	**1,22**	**1,09**	**1,04**	100
M 11x1.50	**3520-11.00**	11.40	11.00	**0,76**	**0,62**	**0,58**	16.50	**0,86**	**0,72**	**0,67**	22.00	**0,89**	**0,80**	**0,74**	100
M 12x1.00	**3524-12.00**	12.30	12.00	**0,63**	**0,61**	**0,58**	18.00	**0,75**	**0,74**	**0,71**	24.00	**1,23**	**1,17**	**1,07**	100
M 12x1.25	**3523-12.00**	12.30	12.00	**0,63**	**0,53**	**0,49**	18.00	**0,75**	**0,61**	**0,56**	24.00	**0,87**	**0,80**	**0,74**	100
M 12x1.50	**3521-12.00**	12.40	12.00	**0,63**	**0,53**	**0,49**	18.00	**0,75**	**0,54**	**0,49**	24.00	**0,87**	**0,80**	**0,74**	100
M 12x1.75	**3520-12.00**	12.50	12.00	**0,63**	**0,51**	**0,48**	18.00	**0,75**	**0,65**	**0,61**	24.00	**0,87**	**0,75**	**0,69**	100
M 13x1.25	**3523-13.00**	13.25	13.00	**0,92**	**0,86**	**0,80**	19.50	**1,42**	**1,33**	**1,23**	26.00	**1,92**	**1,77**	**1,63**	50
M 13x1.50	**3521-13.00**	13.25	13.00	**0,92**	**0,86**	**0,80**	19.50	**1,42**	**1,33**	**1,23**	26.00	**1,92**	**1,77**	**1,63**	50
M 13x1.75	**3520-13.00**	13.50	13.00	**0,92**	**0,86**	**0,80**	19.50	**1,42**	**1,33**	**1,23**	26.00	**1,92**	**1,77**	**1,63**	50
M 14x1.00	**3524-14.00**	14.25	14.00	**1,16**	**1,12**	**1,09**	21.00	**1,20**	**1,16**	**1,10**	28.00	**1,38**	**1,33**	**1,25**	50
M 14x1.25	**3523-14.00**	14.25	14.00	**0,97**	**0,88**	**0,82**	21.00	**1,10**	**0,96**	**0,88**	28.00	**1,16**	**1,08**	**1,01**	50
M 14x1.50	**3521-14.00**	14.50	14.00	**0,97**	**0,84**	**0,79**	21.00	**1,10**	**0,90**	**0,84**	28.00	**1,16**	**1,12**	**1,05**	50
M 14x2.00	**3520-14.00**	14.50	14.00	**0,97**	**0,80**	**0,74**	21.00	**1,10**	**1,01**	**0,91**	28.00	**1,16**	**1,10**	**1,03**	50

Nota importante: la lunghezza totale dell'inserto è definita per l'inserto una volta assemblato nella parte.

powercoil by celesa

INSERTO LIBERO

M MF | FREE | M/MF | AISI 304 | BS7752 DIN8140 | NASM3279 NASM3280 NASM3281 LN9039 | ...D







D MM		Ø	L mm	2.5D € <500	2.5D € 500-999	2.5D € 1000-...	L mm	3.0D € <500	3.0D € 500-999	3.0D € 1000-...	Unit
M 2x0.40	**3520-2.00**	2.10	5.00	**0,58**	**0,53**	**0,50**	6.00	**0,63**	**0,61**	**0,58**	100
M 2.20x0.45	**3520-2.20**	2.30	5.50	**0,58**	**0,53**	**0,50**	6.60	**0,63**	**0,61**	**0,58**	100
M 2.50x0.45	**3520-2.50**	2.60	6.25	**0,39**	**0,35**	**0,32**	7.50	**0,45**	**0,40**	**0,38**	100
M 3x0.50	**3520-3.00**	3.20	7.50	**0,39**	**0,35**	**0,32**	9.00	**0,45**	**0,40**	**0,38**	100
M 3.50x0.60	**3520-3.50**	3.70	8.75	**0,42**	**0,39**	**0,37**	10.50	**0,50**	**0,47**	**0,44**	100
M 4x0.70	**3520-4.00**	4.20	10.00	**0,39**	**0,35**	**0,32**	12.00	**0,42**	**0,38**	**0,36**	100
M 5x0.80	**3520-5.00**	5.20	12.50	**0,44**	**0,38**	**0,36**	15.00	**0,51**	**0,44**	**0,41**	100
M 6x1.00	**3520-6.00**	6.30	15.00	**0,50**	**0,47**	**0,44**	18.00	**0,63**	**0,54**	**0,50**	100
M 7x1.00	**3520-7.00**	7.30	17.50	**0,62**	**0,54**	**0,50**	21.00	**0,72**	**0,70**	**0,66**	100
M 8x1.00	**3521-8.00**	8.30	20.00	**0,64**	**0,60**	**0,54**	24.00	**0,78**	**0,74**	**0,68**	100
M 8x1.25	**3520-8.00**	8.30	20.00	**0,62**	**0,54**	**0,50**	24.00	**0,72**	**0,65**	**0,61**	100
M 9x1.25	**3520-9.00**	9.40	22.50	**0,74**	**0,67**	**0,65**	27.00	**0,87**	**0,84**	**0,81**	100
M 10x1.00	**3523-10.00**	10.30	25.00	**0,70**	**0,64**	**0,60**	30.00	**0,85**	**0,78**	**0,71**	100
M 10x1.25	**3521-10.00**	10.30	25.00	**0,70**	**0,66**	**0,63**	30.00	**0,85**	**0,83**	**0,78**	100
M 10x1.50	**3520-10.00**	10.40	25.00	**0,70**	**0,63**	**0,59**	30.00	**0,85**	**0,75**	**0,69**	100
M 11x1.00	**3523-11.00**	11.30	27.50	**1,62**	**1,54**	**1,46**	33.00	**2,00**	**1,91**	**1,79**	100
M 11x1.25	**3521-11.00**	11.30	27.50	**1,62**	**1,54**	**1,46**	33.00	**2,00**	**1,91**	**1,79**	100
M 11x1.50	**3520-11.00**	11.40	27.50	**1,11**	**1,03**	**0,93**	33.00	**1,31**	**1,27**	**1,22**	100
M 12x1.00	**3524-12.00**	12.30	30.00	**1,54**	**1,50**	**1,44**	36.00	**1,89**	**1,81**	**1,67**	100
M 12x1.25	**3523-12.00**	12.30	30.00	**1,03**	**1,01**	**0,96**	36.00	**1,25**	**1,18**	**1,10**	100
M 12x1.50	**3521-12.00**	12.40	30.00	**1,03**	**1,01**	**0,96**	36.00	**1,44**	**1,18**	**1,10**	100
M 12x1.75	**3520-12.00**	12.50	30.00	**1,03**	**1,00**	**0,89**	36.00	**1,31**	**1,24**	**1,18**	100
M 13x1.25	**3523-13.00**	13.25	32.50	**2,59**	**2,38**	**2,21**	39.00	**2,98**	**2,74**	**2,54**	50
M 13x1.50	**3521-13.00**	13.25	32.50	**2,59**	**2,38**	**2,21**	39.00	**2,98**	**2,74**	**2,54**	50
M 13x1.75	**3520-13.00**	13.50	32.50	**2,59**	**2,38**	**2,21**	39.00	**2,98**	**2,74**	**2,54**	50
M 14x1.00	**3524-14.00**	14.25	35.00	**1,66**	**1,58**	**1,46**	42.00	**2,16**	**1,82**	**1,68**	50
M 14x1.25	**3523-14.00**	14.25	35.00	**1,37**	**1,29**	**1,19**	42.00	**1,67**	**1,47**	**1,35**	50
M 14x1.50	**3521-14.00**	14.50	35.00	**1,37**	**1,28**	**1,18**	42.00	**1,67**	**1,53**	**1,42**	50
M 14x2.00	**3520-14.00**	14.50	35.00	**1,37**	**1,31**	**1,28**	42.00	**1,67**	**1,59**	**1,47**	50

Nota importante: la lunghezza totale dell'inserto è definita per l'inserto una volta assemblato nella parte.

INSERTO LIBERO

M MF | FREE | M/MF | AISI 304 | BS7752 DIN8140 | NASM3279 NASM3280 NASM3281 LN9039 | ...D





D		Ø	L mm	1.0D € <100	1.0D € 100-500	L mm	1.5D € <100	1.5D € 100-500	L mm	2.0D € <100	2.0D € 100-500	Unit
M 15 x 1.50	3521-15.00	15.25	15.00	1,54	1,28	22.50	1,98	1,63	30.00	2,50	2,10	50
M 15 x 2.00	3520-15.00	15.50	15.00	1,54	1,28	22.50	1,98	1,66	30.00	2,50	2,07	50
M 16 x 1.50	3521-16.00	16.50	16.00	1,29	0,87	24.00	1,35	0,98	32.00	1,67	1,28	50
M 16 x 2.00	3520-16.00	16.50	16.00	1,29	1,08	24.00	1,35	1,12	32.00	1,67	1,40	50
M 18 x 1.50	3523-18.00	18.50	18.00	1,89	1,61	27.00	2,21	1,88	36.00	2,98	2,54	50
M 18 x 2.00	3521-18.00	18.50	18.00	1,89	1,63	27.00	2,21	2,02	36.00	2,98	2,32	50
M 18 x 2.50	3520-18.00	19.00	18.00	1,89	1,56	27.00	2,21	1,84	36.00	2,98	2,48	50
M 20 x 1.50	3523-20.00	20.50	20.00	2,21	1,88	30.00	2,78	2,37	40.00	3,57	3,05	25
M 20 x 2.00	3521-20.00	20.50	20.00	2,21	1,56	30.00	2,78	2,22	40.00	3,57	3,05	25
M 20 x 2.50	3520-20.00	20.75	20.00	2,21	1,88	30.00	2,78	2,37	40.00	3,57	3,05	25
M 22 x 1.50	3523-22.00	22.50	22.00	2,38	2,03	33.00	2,98	2,54	44.00	3,77	3,21	25
M 22 x 2.00	3521-22.00	22.50	22.00	2,38	2,07	33.00	2,98	2,54	44.00	3,77	3,14	25
M 22 x 2.50	3520-22.00	22.75	22.00	2,38	2,02	33.00	2,98	2,54	44.00	3,77	3,21	25
M 24 x 1.50	3523-24.00	24.50	24.00	2,98	2,52	36.00	3,13	2,96	48.00	3,98	3,61	25
M 24 x 2.00	3521-24.00	24.50	24.00	2,98	2,66	36.00	3,13	2,96	48.00	3,98	3,70	25
M 24 x 3.00	3520-24.00	25.00	24.00	2,98	2,66	36.00	3,13	2,96	48.00	3,98	3,48	25
M 26 x 1.50	3523-26.00	26.50	26.00	4,53	3,84	39.00	5,15	4,39	52.00	6,69	5,69	10
M 27 x 1.50	3523-27.00	27.50	27.00	4,25	3,62	40.50	5,15	4,39	54.00	6,31	5,36	10
M 27 x 2.00	3521-27.00	27.50	27.00	4,38	3,73	40.50	5,15	4,42	54.00	6,31	5,30	10
M 27 x 3.00	3520-27.00	28.00	27.00	3,74	3,17	40.50	5,15	4,84	54.00	6,57	6,26	10
M 28 x 1.50	3523-28.00	28.50	28.00	4,34	3,70	42.00	5,15	4,39	56.00	6,69	5,69	10
M 30 x 1.50	3523-30.00	30.50	30.00	5,12	4,37	45.00	5,89	5,01	60.00	7,28	6,18	10
M 30 x 2.00	3521-30.00	30.50	30.00	4,83	4,12	45.00	5,89	5,01	60.00	7,56	6,44	10
M 30 x 3.50	3520-30.00	31.00	30.00	4,31	3,80	45.00	5,89	4,22	60.00	7,86	6,69	10
M 33 x 2.00	3521-33.00	33.50	33.00	7,26	6,17	49.50	7,54	6,56	66.00	8,82	7,54	10
M 33 x 3.50	3520-33.00	34.00	33.00	6,31	5,36	49.50	7,54	6,56	66.00	9,04	7,72	10
M 36 x 1.50	3524-36.00	36.50	36.00	6,21	5,28	54.00	7,54	6,56	72.00	9,08	8,58	10
M 36 x 2.00	3523-36.00	36.50	36.00	6,21	5,28	54.00	7,54	6,42	72.00	9,08	8,58	10
M 36 x 3.00	3521-36.00	37.00	36.00	6,21	5,28	54.00	7,54	7,23	72.00	9,21	8,58	10
M 36 x 4.00	3520-36.00	37.00	36.00	6,21	5,28	54.00	7,54	6,25	72.00	9,08	7,98	10
M 39 x 3,00	3521-39.00	40.00	39.00	-	-	58.50	30,30	-	78.00	-	-	1
M 39 x 4,00	3520-39.00	40.25	39.00	31,42	-	58.50	36,38	-	78.00	38,72	-	1
M 40 x 3,00	3523-40.00	41.00	40.00	-	-	60.00	42,79	-	80.00	-	-	1
M 42 x 3,00	3523-42.00	43.00	42.00	-	-	63.00	42,79	-	84.00	-	-	1
M 42 x 4,50	3520-42.00	43.50	42.00	-	-	63.00	43,15	-	84.00	-	-	1
M 45 x3 ,00	3523-45.00	46.00	45.00	-	-	67.50	51,48	-	90.00	-	-	1
M 45 x 4,50	3520-45.00	46.50	45.00	-	-	67.50	51,91	-	90.00	-	-	1
M 48 x 3,00	3523-48.00	49.00	48.00	-	-	72.00	51,48	-	96.00	-	-	1
M 48 x 5,00	3520-48.00	49.50	48.00	-	-	72.00	68,14	-	96.00	-	-	1
M 50 x 3,00	3523-50.00	51.00	50.00	-	-	75.00	67,57	-	100.00	-	-	1
M 52 x 3,00	3523-52.00	53.00	52.00	-	-	78.00	72,40	-	104.00	-	-	1
M 52 x 5,00	3520-52.00	53.50	52.00	-	-	78.00	73,01	-	104.00	-	-	1

Nota importante: la lunghezza totale dell'inserto è definita per l'inserto una volta assemblato nella parte.

powercoil by celesa

INSERTO LIBERO

M MF | FREE | M/MF | AISI 304 | BS7752 DIN8140 | NASM3279 NASM3280 NASM3281 LN9039 | ...D







D		Ø	L mm	L 2.5D € <100	L 2.5D € 100-500	L mm	L 3.0D € <100	L 3.0D € 100-500	Unit
M 15 x 1.50	**3521-15.00**	15.25	37.50	**3,08**	**2,57**	45.00	**3,57**	**2,95**	50
M 15 x 2.00	**3520-15.00**	15.50	37.50	**3,08**	**2,57**	45.00	**3,57**	**2,95**	50
M 16 x 1.50	**3521-16.00**	16.50	40.00	**1,83**	**1,56**	48.00	**2,16**	**1,75**	50
M 16 x 2.00	**3520-16.00**	16.50	40.00	**1,83**	**1,62**	48.00	**2,16**	**1,85**	50
M 18 x 1.50	**3523-18.00**	18.50	45.00	**3,38**	**2,89**	54.00	**3,98**	**3,38**	50
M 18 x 2.00	**3521-18.00**	18.50	45.00	**3,38**	**2,71**	54.00	**3,98**	**3,12**	50
M 18 x 2.50	**3520-18.00**	19.00	45.00	**3,38**	**2,81**	54.00	**3,98**	**3,31**	50
M 20 x 1.50	**3523-20.00**	20.50	50.00	**3,98**	**3,38**	60.00	**4,57**	**3,89**	25
M 20 x 2.00	**3521-20.00**	20.50	50.00	**3,98**	**3,38**	60.00	**4,57**	**3,89**	25
M 20 x 2.50	**3520-20.00**	20.75	50.00	**3,98**	**3,38**	60.00	**4,57**	**3,89**	25
M 22 x 1.50	**3523-22.00**	22.50	55.00	**4,32**	**3,68**	66.00	**5,21**	**4,43**	25
M 22 x 2.00	**3521-22.00**	22.50	55.00	**4,32**	**3,68**	66.00	**5,21**	**4,43**	25
M 22 x 2.50	**3520-22.00**	22.75	55.00	**4,32**	**3,68**	66.00	**5,21**	**4,43**	25
M 24 x 1.50	**3523-24.00**	24.50	60.00	**5,22**	**4,34**	72.00	**5,57**	**5,09**	25
M 24 x 2.00	**3521-24.00**	24.50	60.00	**5,22**	**4,44**	72.00	**5,57**	**5,21**	25
M 24 x 3.00	**3520-24.00**	25.00	60.00	**5,22**	**4,44**	72.00	**6,37**	**5,60**	25
M 26 x 1.50	**3523-26.00**	26.50	65.00	**8,95**	**7,59**	78.00	**11,18**	**9,50**	10
M 27 x 1.50	**3523-27.00**	27.50	67.50	**8,19**	**6,96**	81.00	**9,67**	**8,22**	10
M 27 x 2.00	**3521-27.00**	27.50	67.50	**7,44**	**6,33**	81.00	**8,78**	**7,48**	10
M 27 x 3.00	**3520-27.00**	28.00	67.50	**7,74**	**6,58**	81.00	**9,14**	**7,78**	10
M 28 x 1.50	**3523-28.00**	28.50	70.00	**9,61**	**8,18**	84.00	**11,53**	**9,82**	10
M 30 x 1.50	**3523-30.00**	30.50	75.00	**9,79**	**8,33**	90.00	**11,73**	**9,98**	10
M 30 x 2.00	**3521-30.00**	30.50	75.00	**8,69**	**7,41**	90.00	**10,01**	**8,53**	10
M 30 x 3.50	**3520-30.00**	31.00	75.00	**8,65**	**7,35**	90.00	**9,52**	**8,11**	10
M 33 x 2.00	**3521-33.00**	33.50	82.50	**9,71**	**8,25**	99.00	**10,68**	**9,08**	10
M 33 x 3.50	**3520-33.00**	34.00	82.50	**11,32**	**9,63**	99.00	**12,77**	**10,86**	10
M 36 x 1.50	**3524-36.00**	36.50	90.00	**11,88**	**10,11**	108.00	**13,08**	**11,12**	10
M 36 x 2.00	**3523-36.00**	36.50	90.00	**11,20**	**9,52**	108.00	**12,27**	**10,44**	10
M 36 x 3.00	**3521-36.00**	37.00	90.00	**11,04**	**9,40**	108.00	**12,16**	**10,34**	10
M 36 x 4.00	**3520-36.00**	37.00	90.00	**12,79**	**10,88**	108.00	**16,49**	**14,02**	10

X.XD

Esempio di codifica:		1.0D	1.5D
	M 15x1.50	3520-15.00x1.0D	3520-15.00x1.5D

INSERTO LIBERO

M MF | FREE | M/MF | AISI 304 | BS7752 DIN8140 | NASM3279 NASM3280 NASM3281 LN9039 | ...D-LH



INSERTO A SINISTRA



D		Ø	L mm	€		€
M 3 x 0.50	3520-3.00x1.5D-LH	3.20	4.50	4,45	3520-3.00I-LH	26,58
M 4 x 0.70	3520-4.00x1.5D-LH	4.20	6.00	4,45	3520-4.00I-LH	26,58
M 5 x 0.80	3520-5.00x1.5D-LH	5.20	7.50	4,45	3520-5.00I-LH	26,58
M 6 x 1.00	3520-6.00x1.5D-LH	6.30	9.00	3,07	3520-6.00I-LH	26,58
M 8 x 1.25	3520-8.00x1.5D-LH	8.30	12.00	3,07	3520-8.00I-LH	33,10
M 10 x 1.50	3520-10.00x1.5D-LH	10.40	15.00	4,10	3520-10.00I-LH	40,56
M 12 x 1.75	3520-12.00x1.5D-LH	12.50	18.00	6,13	3520-12.00I-LH	45,91

M MF | FREE | M/MF | AISI 316 | BS7752 DIN8140 | NASM3279 NASM3280 NASM3281 LN9039 | ...DY



AISI 316

D		Ø	L mm	€
M 3 x 0.50	3520-3.00x1.5DY	3.20	4.50	2,29
M 4 x 0.70	3520-4.00x1.5DY	4.20	6.00	2,40
M 5 x 0.80	3520-5.00x1.5DY	5.20	7.50	2,49
M 6 x 1.00	3520-6.00x1.5DY	6.30	9.00	2,54
M 8 x 1.25	3520-8.00x1.5DY	8.30	12.00	3,06
M 10 x 1.50	3520-10.00x1.5DY	10.40	15.00	3,15
M 12 x 1.75	3520-12.00x1.5DY	12.50	18.00	3,43

X.XD

Esempio di codifica:

	1.0D
M 6 x 1.00	3520-6.00X1.5DY

INSERTI SENZA CODA

M MF | TANG FREE | M/MF | AISI 304 | BS7752 DIN8140 | NASM3279 NASM3280 NASM3281 LN9039 | ...DTL





D	MMM		Ø	L mm	1.0D € <500	500-999	1000-...	L mm	1.5D € <500	500-999	1000-...	L mm	2.0D € <500	500-999	1000-...	Unit
M 3 x 0.50	3520-3.00DTL	3.20	3.00	0,44	0,39	0,38	4.50	0,46	0,41	0,39	6.00	0,50	0,42	0,41	100
M 4 x 0.70	3520-4.00DTL	4.20	4.00	0,42	0,36	0,34	6.00	0,44	0,39	0,38	8.00	0,50	0,42	0,41	100
M 5 x 0.80	3520-5.00DTL	5.20	5.00	0,50	0,42	0,41	7.50	0,42	0,41	0,39	10.00	0,59	0,47	0,44	100
M 6 x 1.00	3520-6.00DTL	6.30	6.00	0,53	0,44	0,41	9.00	0,44	0,41	0,39	12.00	0,65	0,59	0,54	100
M 8 x 1.25	3520-8.00DTL	8.30	8.00	0,53	0,47	0,44	12.00	0,59	0,49	0,46	16.00	0,80	0,65	0,62	100
M 10 x 1.50	3520-10.00DTL	10.40	10.00	0,68	0,59	0,54	15.00	0,80	0,65	0,62	20.00	0,91	0,78	0,71	100
M 12 x 1.75	3520-12.00DTL	12.50	12.00	0,97	0,81	0,76	18.00	1,16	1,01	0,93	24.00	1,35	1,16	1,07	100

X.XD

Esempio di codifica:		1.0D	1.5D	2.0D
	M 3 x 0.50	3520-3.00X1.0DTL	3520-3.00X1.5DTL	3520-3.00X2.0DTL

UTENSILI DI INSTALLAZIONE PER INSERTI SENZA CODA

TANG FREE

	€
3520-3MITTL	608,98
3520-4MITTL	608,98
3520-5MITTL	608,98
3520-6MITTL	608,98
3520-8MITTL	608,98
3520-10MITTL	608,98
3520-12MITTL	608,98



INSERTO LIBERO

UNC | FREE | UNC | AISI 304 | SBAC AS 6734 | NASM122076 – NASM122275 NASM8846 | ...D







			D1 mm	Ø	L mm	1.0D € <500	500-999	1000-...	L mm	1.5D € <500	500-999	1000-...	L mm	2.0D € <500	500-999	1000-...	Unit
UNC	Nº2-56	**3532-2G**	2.18	2.40	2.29	**0,65**	**0,60**	**0,54**	3.30	**0,76**	**0,69**	**0,65**	4.32	**1,00**	**0,89**	**0,83**	100
UNC	Nº3-48	**3532-3G**	2.51	2.70	2.54	**0,66**	**0,62**	**0,58**	3.81	**0,71**	**0,65**	**0,61**	5.08	**0,75**	**0,70**	**0,66**	100
UNC	Nº4-40	**3532-4G**	2.84	3.00	2.79	**0,35**	**0,30**	**0,28**	4.32	**0,36**	**0,32**	**0,29**	5.59	**0,37**	**0,34**	**0,30**	100
UNC	Nº5-40	**3532-5G**	3.17	3.40	3.30	**0,38**	**0,34**	**0,30**	4.83	**0,39**	**0,35**	**0,32**	6.35	**0,41**	**0,38**	**0,36**	100
UNC	Nº6-32	**3532-6G**	3.50	3.70	3.56	**0,28**	**0,26**	**0,25**	5.33	**0,30**	**0,28**	**0,26**	7.11	**0,35**	**0,29**	**0,27**	100
UNC	Nº8-32	**3532-8G**	4.17	4.40	4.06	**0,29**	**0,27**	**0,26**	6.35	**0,34**	**0,29**	**0,27**	8.38	**0,37**	**0,30**	**0,28**	100
UNC	Nº10-24	**3532-10G**	4.83	5.10	4.83	**0,34**	**0,29**	**0,27**	7.37	**0,37**	**0,30**	**0,28**	9.65	**0,39**	**0,35**	**0,32**	100
UNC	Nº12-24	**3532-12G**	5.49	5.70	5.59	**0,38**	**0,34**	**0,30**	8.13	**0,41**	**0,38**	**0,36**	10.92	**0,44**	**0,40**	**0,38**	100
UNC	1/4-20	**3532-1/4**	6.35	6.70	6.35	**0,38**	**0,34**	**0,30**	9.65	**0,41**	**0,38**	**0,36**	12.70	**0,44**	**0,40**	**0,38**	100
UNC	5/16-18	**3532-5/16**	7.94	8.30	7.87	**0,49**	**0,42**	**0,40**	11.94	**0,61**	**0,51**	**0,48**	15.75	**0,63**	**0,54**	**0,50**	100
UNC	3/8-16	**3532-3/8**	9.52	9.90	9.65	**0,69**	**0,63**	**0,59**	14.48	**0,75**	**0,66**	**0,62**	19.30	**1,00**	**0,86**	**0,80**	100
UNC	7/16-14	**3532-7/16**	11.11	11.60	11.18	**0,84**	**0,74**	**0,68**	16.76	**1,01**	**0,88**	**0,82**	22.35	**1,13**	**1,01**	**0,91**	100
UNC	1/2-13	**3532-1/2**	12.70	13.00	12.70	**0,89**	**0,79**	**0,72**	19.05	**1,01**	**0,88**	**0,82**	25.40	**1,13**	**1,01**	**0,91**	100
UNC	9/16-12	**3532-9/16**	14.28	15.00	14.22	**1,74**	**1,53**	**1,42**	21.34	**2,03**	**1,80**	**1,66**	28.45	**2,59**	**2,28**	**2,11**	50
UNC	5/8-11	**3532-5/8**	15.87	16.50	16.00	**1,75**	**1,54**	**1,44**	24.13	**2,04**	**1,81**	**1,67**	32.00	**2,61**	**2,30**	**2,13**	50
UNC	3/4-10	**3532-3/4**	19.05	20.00	19.05	**1,93**	**1,71**	**1,56**	28.70	**2,40**	**2,13**	**1,96**	38.10	**2,88**	**2,54**	**2,34**	50
UNC	7/8-9	**3532-7/8**	22.22	23.00	22.35	**2,51**	**2,22**	**2,04**	33.53	**3,13**	**2,76**	**2,55**	44.70	**3,74**	**3,30**	**3,03**	25
UNC	1-8	**3532-1**	25.40	26.25	25.40	**3,66**	**3,57**	**3,30**	38.10	**5,47**	**5,34**	**4,92**	50.80	**6,95**	**6,80**	**6,27**	25
UNC	1.1/8-7	**3532-1.1/8**	28.57	29.50	28.70	**5,82**	**5,13**	**4,71**	42.93	**7,70**	**6,78**	**6,25**	57.15	**7,98**	**7,04**	**6,47**	25
UNC	1.1/4-7	**3532-1.1/4**	31.75	32.50	31.75	**6,35**	**5,59**	**5,15**	47.75	**8,06**	**7,10**	**6,53**	63.50	**9,09**	**8,00**	**7,36**	10
UNC	1.3/8-6	**3532-1.3/8**	34.92	36.00	35.05	**6,96**	**6,13**	**5,65**	52.58	**8,59**	**7,56**	**6,96**	69.85	**10,19**	**8,98**	**8,25**	10
UNC	1.1/2-6	**3532-1.1/2**	38.10	39.50	38.10	**8,06**	**7,10**	**6,53**	57.15	**11,08**	**9,75**	**8,99**	76.20	**12,81**	**11,28**	**10,37**	10

Nota importante: la lunghezza totale dell'inserto è definita per l'inserto una volta assemblato nella parte.

X.XD

Esempio di codifica:		1.0D	1.5D	2.0D
	UNC 1/4-20	**3532-1/4x1.0D**	**3532-1/4x1.5D**	**3532-1/4x2.0D**

INSERTO LIBERO

UNC | FREE | UNC | AISI 304 | SBAC AS 6734 | NASM122076 – NASM122275 NASM8846 | ...D







D			D1 mm	Ø	L mm	L 2.5D € <500	L 2.5D € 500-999	L 2.5D € 1000-...	L mm	L 3.0D € <500	L 3.0D € 500-999	L 3.0D € 1000-...	Unit
UNC	Nº2-56	**3532-2G**	2.18	2.40	5.59	**1,11**	**1,02**	**0,92**	6.60	**1,39**	**1,25**	**1,16**	100
UNC	Nº3-48	**3532-3G**	2.51	2.70	6.35	**0,79**	**0,72**	**0,67**	7.62	**0,87**	**0,80**	**0,74**	100
UNC	Nº4-40	**3532-4G**	2.84	3.00	9.65	**0,41**	**0,38**	**0,36**	8.64	**0,49**	**0,42**	**0,40**	100
UNC	Nº5-40	**3532-5G**	3.17	3.40	7.87	**0,49**	**0,42**	**0,40**	9.65	**0,61**	**0,51**	**0,48**	100
UNC	Nº6-32	**3532-6G**	3.50	3.70	8.89	**0,38**	**0,34**	**0,30**	10.41	**0,44**	**0,39**	**0,37**	100
UNC	Nº8-32	**3532-8G**	4.17	4.40	10.41	**0,39**	**0,36**	**0,34**	12.45	**0,46**	**0,41**	**0,39**	100
UNC	Nº10-24	**3532-10G**	4.83	5.10	12.19	**0,47**	**0,41**	**0,39**	14.48	**0,58**	**0,49**	**0,46**	100
UNC	Nº12-24	**3532-12G**	5.49	5.70	13.72	**0,53**	**0,48**	**0,45**	16.51	**0,66**	**0,60**	**0,54**	100
UNC	1/4-20	**3532-1/4**	6.35	6.70	16.00	**0,53**	**0,48**	**0,45**	19.05	**0,66**	**0,60**	**0,54**	100
UNC	5/16-18	**3532-5/16**	7.94	8.30	19.81	**0,75**	**0,65**	**0,61**	23.62	**0,89**	**0,79**	**0,72**	100
UNC	3/8-16	**3532-3/8**	9.52	9.90	24.13	**1,12**	**1,00**	**0,91**	28.96	**1,34**	**1,18**	**1,09**	100
UNC	7/16-14	**3532-7/16**	11.11	11.60	27.94	**1,37**	**1,20**	**1,11**	33.53	**1,67**	**1,47**	**1,35**	100
UNC	1/2-13	**3532-1/2**	12.70	13.00	31.75	**1,37**	**1,20**	**1,11**	38.10	**1,67**	**1,47**	**1,35**	100
UNC	9/16-12	**3532-9/16**	14.28	15.00	35.56	**3,24**	**2,86**	**2,63**	42.67	**3,50**	**3,09**	**2,86**	50
UNC	5/8-11	**3532-5/8**	15.87	16.50	40.13	**3,29**	**2,90**	**2,67**	48.01	**3,54**	**3,12**	**2,88**	50
UNC	3/4-10	**3532-3/4**	19.05	20.00	47.75	**3,75**	**3,31**	**3,05**	57.15	**4,13**	**3,64**	**3,35**	50
UNC	7/8-9	**3532-7/8**	22.22	23.00	55.88	**4,87**	**4,28**	**3,95**	67.06	**5,36**	**4,71**	**4,35**	25
UNC	1-8	**3532-1**	25.40	26.25	63.50	**8,21**	**8,03**	**7,41**	76.20	**9,96**	**9,73**	**8,97**	25
UNC	1.1/8-7	**3532-1.1/8**	28.57	29.50	71.37	**9,95**	**8,77**	**8,07**	85.85	**11,08**	**9,75**	**8,99**	25
UNC	1.1/4-7	**3532-1.1/4**	31.75	32.50	79.50	**11,40**	**10,05**	**9,24**	95.25	**12,82**	**11,29**	**10,38**	10
UNC	1.3/8-6	**3532-1.3/8**	34.92	36.00	87.38	**12,87**	**11,33**	**10,44**	104.90	**14,04**	**12,36**	**11,37**	10
UNC	1.1/2-6	**3532-1.1/2**	38.10	39.50	95.25	**16,75**	**14,74**	**13,58**	114.30	**19,05**	**16,77**	**15,44**	10

Nota importante: la lunghezza totale dell'inserto è definita per l'inserto una volta assemblato nella parte.

INSERTO LIBERO

UNF | FREE | UNF | AISI 304 | SBAC AS 6734 | NASM124651-124850 NASM8846 SBAC8455 | ...D







		D1 mm	Ø	L mm	€ <500	€ 500-999	€ 1000-...	L mm	€ <500	€ 500-999	€ 1000-...	L mm	€ <500	€ 500-999	€ 1000-...	Unit
				L 1.0D				L 1.5D				L 2.0D				
UNF Nº3 - 56	**3534-3G**	2.51	2.70	2.54	**0,50**	**0,45**	**0,42**	3.81	**0,63**	**0,56**	**0,51**	5.08	**0,76**	**0,67**	**0,63**	100
UNF Nº4 - 48	**3534-4G**	2.84	3.00	2.79	**0,50**	**0,45**	**0,42**	4.32	**0,63**	**0,56**	**0,51**	5.59	**0,76**	**0,67**	**0,63**	100
UNF Nº6 - 40	**3534-6G**	3.50	3.70	3.56	**0,50**	**0,45**	**0,42**	5.33	**0,63**	**0,56**	**0,51**	7.11	**0,76**	**0,67**	**0,63**	100
UNF Nº8 - 36	**3534-8G**	4.17	4.40	4.06	**0,50**	**0,45**	**0,42**	6.35	**0,63**	**0,56**	**0,51**	8.38	**0,76**	**0,67**	**0,63**	100
UNF Nº10 - 32	**3534-10G**	4.83	5.10	4.83	**0,37**	**0,30**	**0,28**	7.37	**0,38**	**0,34**	**0,30**	9.65	**0,44**	**0,39**	**0,37**	100
UNF Nº12 - 28	**3534-12G**	5.49	5.70	5.59	**0,60**	**0,51**	**0,48**	8.13	**0,62**	**0,58**	**0,51**	10.92	**0,64**	**0,61**	**0,56**	100
UNF 1/4 - 28	**3534-1/4**	6.35	6.60	6.35	**0,37**	**0,30**	**0,28**	9.65	**0,38**	**0,34**	**0,30**	12.70	**0,44**	**0,39**	**0,37**	100
UNF 5/16 - 24	**3534-5/16**	7.94	8.20	7.87	**0,48**	**0,42**	**0,40**	11.94	**0,51**	**0,45**	**0,42**	15.75	**0,63**	**0,53**	**0,49**	100
UNF 3/8 - 24	**3534-3/8**	9.52	9.80	9.65	**0,72**	**0,63**	**0,59**	14.48	**0,75**	**0,65**	**0,61**	19.30	**0,89**	**0,79**	**0,72**	100
UNF 7/16 - 20	**3534-7/16**	11.11	11.50	11.18	**0,88**	**0,78**	**0,71**	16.76	**1,01**	**0,87**	**0,81**	22.35	**1,12**	**1,00**	**0,91**	100
UNF 1/2 - 20	**3534-1/2**	12.70	13.00	12.70	**0,88**	**0,78**	**0,71**	19.05	**1,01**	**0,87**	**0,81**	25.40	**1,12**	**1,00**	**0,91**	100
UNF 9/16 - 18	**3534-9/16**	14.29	14.70	14.22	**1,98**	**1,75**	**1,61**	21.34	**2,10**	**1,85**	**1,71**	28.45	**2,50**	**2,22**	**2,04**	50
UNF 5/8 - 18	**3534-5/8**	15.87	16.30	16.00	**2,03**	**1,80**	**1,66**	24.13	**2,21**	**1,94**	**1,80**	32.00	**2,50**	**2,22**	**2,04**	50
UNF 3/4 - 16	**3534-3/4**	19.05	19.50	19.05	**2,24**	**1,97**	**1,83**	28.70	**2,40**	**2,13**	**1,96**	38.10	**2,74**	**2,42**	**2,23**	50
UNF 7/8 - 14	**3534-7/8**	22.22	22.50	22.35	**4,66**	**4,11**	**3,78**	33.53	**6,87**	**6,05**	**5,58**	44.70	**8,75**	**7,70**	**7,09**	25
UNF 1-12	**3534-1**	25.40	26.00	25.40	**4,66**	**4,11**	**3,78**	38.10	**6,87**	**6,05**	**5,58**	50.80	**8,75**	**7,70**	**7,09**	25
UNF 1-14	**3535-1**	25.40	26.00	25.40	**4,85**	**4,25**	**3,92**	38.10	**7,15**	**6,30**	**5,79**	50.80	**9,09**	**7,99**	**7,35**	25
UNF 1.1/8 - 12	**3534-1.1/8**	28.57	29.50	28.70	**6,68**	**5,89**	**5,42**	43.18	**8,82**	**7,77**	**7,15**	57.15	**9,16**	**8,06**	**7,43**	10
UNF 1.1/4 - 12	**3534-1.1/4**	31.75	32.50	31.75	**7,26**	**6,39**	**5,89**	47.75	**9,60**	**8,44**	**7,78**	63.50	**10,42**	**9,17**	**8,43**	10
UNF 1.3/8 - 12	**3534-1.3/8**	34.92	35.50	35.05	**7,96**	**7,01**	**6,45**	52.58	**9,85**	**8,66**	**7,97**	69.85	**11,67**	**10,27**	**9,45**	10
UNF 1.1/2 - 12	**3534-1.1/2**	38.10	38.50	38.10	**9,22**	**8,12**	**7,48**	57.15	**11,99**	**11,64**	**10,71**	76.20	**14,67**	**12,92**	**11,89**	10

Nota importante: la lunghezza totale dell'inserto è definita per l'inserto una volta assemblato nella parte.

X.XD

Esempio di codifica:		1.0D	1.5D	2.0D
	UNF Nº3 - 56	**3534-3Gx1.0D**	**3534-3Gx1.5D**	**3534-3Gx2.0D**

powercoil by celesa

INSERTO LIBERO

UNF | FREE | UNF | AISI 304 | SBAC AS 6734 | NASM124651-124850 NASM8846 SBAC8455 | ...D







			D1 mm	Ø	L mm	L 2.5D € <500	500-999	1000-...	L mm	L 3.0D € <500	500-999	1000-...	Unit
UNF	Nº3 - 56	**3534-3G**	2.51	2.70	6.35	**0,87**	**0,78**	**0,71**	7.62	**1,02**	**0,89**	**0,83**	100
UNF	Nº4 - 48	**3534-4G**	2.84	3.00	7.11	**0,87**	**0,78**	**0,71**	8.64	**1,02**	**0,89**	**0,83**	100
UNF	Nº6 - 40	**3534-6G**	3.50	3.70	8.89	**0,87**	**0,78**	**0,71**	10.41	**1,02**	**0,89**	**0,83**	100
UNF	Nº8 - 36	**3534-8G**	4.17	4.40	10.41	**0,87**	**0,78**	**0,71**	12.45	**1,02**	**0,89**	**0,83**	100
UNF	Nº10 - 32	**3534-10G**	4.83	5.10	12.19	**0,58**	**0,49**	**0,46**	14.48	**0,66**	**0,60**	**0,54**	100
UNF	Nº12 - 28	**3534-12G**	5.49	5.70	13.72	**0,67**	**0,63**	**0,59**	16.51	**0,75**	**0,70**	**0,66**	100
UNF	1/4 - 28	**3534-1/4**	6.35	6.60	16.00	**0,58**	**0,49**	**0,46**	19.05	**0,66**	**0,60**	**0,54**	100
UNF	5/16 - 24	**3534-5/16**	7.94	8.20	19.81	**0,76**	**0,67**	**0,63**	23.62	**0,89**	**0,79**	**0,72**	100
UNF	3/8 - 24	**3534-3/8**	9.52	9.80	24.13	**1,13**	**1,01**	**0,91**	28.96	**1,34**	**1,18**	**1,09**	100
UNF	7/16 - 20	**3534-7/16**	11.11	11.50	27.94	**1,40**	**1,23**	**1,13**	33.53	**1,67**	**1,47**	**1,35**	100
UNF	1/2 - 20	**3534-1/2**	12.70	13.00	31.75	**1,40**	**1,23**	**1,13**	38.10	**1,67**	**1,47**	**1,35**	100
UNF	9/16 - 18	**3534-9/16**	14.29	14.70	35.56	**3,17**	**2,79**	**2,58**	42.67	**3,56**	**3,13**	**2,89**	50
UNF	5/8 - 18	**3534-5/8**	15.87	16.30	40.13	**2,98**	**2,63**	**2,42**	48.01	**3,56**	**3,13**	**2,89**	50
UNF	3/4 - 16	**3534-3/4**	19.05	19.50	47.75	**3,75**	**3,31**	**3,05**	57.15	**4,13**	**3,64**	**3,35**	50
UNF	7/8 - 14	**3534-7/8**	22.22	22.50	55.88	**10,45**	**9,20**	**8,46**	67.06	**12,17**	**10,71**	**9,86**	25
UNF	1 - 12	**3534-1**	25.40	26.00	63.50	**10,45**	**9,20**	**8,46**	76.20	**12,17**	**10,71**	**9,86**	25
UNF	1 - 14	**3535-1**	25.40	26.00	63.50	**10,45**	**9,20**	**8,46**	76.20	**12,53**	**11,03**	**10,15**	25
UNF	1.1/8 - 12	**3534-1.1/8**	28.57	29.50	71.37	**11,40**	**10,05**	**9,24**	85.85	**12,71**	**11,18**	**10,29**	10
UNF	1.1/4 - 12	**3534-1.1/4**	31.75	32.50	79.50	**13,03**	**11,48**	**10,57**	95.25	**14,69**	**12,93**	**11,89**	10
UNF	1.3/8 - 12	**3534-1.3/8**	34.92	35.50	87.38	**14,74**	**12,98**	**11,95**	104.90	**16,07**	**14,14**	**13,02**	10
UNF	1.1/2 - 12	**3534-1.1/2**	38.10	38.50	95.25	**19,16**	**16,87**	**15,52**	114.30	**21,82**	**19,20**	**17,67**	10



Consultare la nostra gamma di organizzatori.

INSERTO LIBERO

BSW | FREE | BSW | AISI 304 | SBAC AS 4736 SBAC AS 4947 | ...D







			D1 mm	Ø	L 1.0D mm	€	L 1.5D mm	€	L 2.0D mm	€	L 2.5D mm	€	L 3.0D mm	€	Unit
BSW	1/8 - 40	3528-1/8	3.17	3.40	3.30	0,44	5.08	0,48	6.60	0,58	8.38	0,74	9.91	0,96	100
BSW	3/16 - 24	3528-3/16	4.76	5.00	4.83	0,44	7.37	0,48	9.65	0,58	12.19	0,74	14.48	0,96	100
BSW	1/4 - 20	3528-1/4	6.35	6.70	6.35	0,40	9.65	0,44	12.70	0,50	16.00	0,66	19.05	0,71	100
BSW	5/16 - 18	3528-5/16	7.94	8.30	7.87	0,46	11.94	0,53	15.75	0,59	19.81	0,69	23.62	0,85	100
BSW	3/8 - 16	3528-3/8	9.52	10.00	9.65	0,83	14.48	0,88	19.30	1,05	24.13	1,23	28.96	1,47	100
BSW	7/16 - 14	3528-7/16	11.11	11.60	11.18	1,01	16.76	1,10	22.35	1,27	27.94	1,50	33.53	1,84	100
BSW	1/2 - 12	3528-1/2	12.70	13.00	12.70	1,01	19.05	1,10	25.40	1,27	31.75	1,50	38.10	1,84	100
BSW	9/16 - 12	3528-9/16	14.29	14.75	14.22	2,50	21.34	3,50	28.45	4,11	35.56	4,88	42.67	5,97	50
BSW	5/8 - 11	3528-5/8	15.87	16.50	16.00	2,50	24.13	3,50	32.00	4,11	40.13	4,88	48.01	5,97	50
BSW	3/4 - 10	3528-3/4	19.05	20.00	19.05	3,24	28.70	4,16	38.10	5,06	47.75	6,08	57.15	7,28	50
BSW	7/8 - 9	3528-7/8	22.22	23.25	22.35	4,16	33.53	5,80	44.70	7,26	55.88	8,74	67.06	10,48	25
BSW	1 - 8	3528-1	25.40	26.50	25.40	4,48	38.10	6,65	50.80	7,26	63.50	8,74	76.20	10,48	25

BSF | FREE | BSF | AISI 304 | SBAC AS 4737-4B SBAC AS 4948-5B | ...D

			D1 mm	Ø	L 1.0D mm	€	L 1.5D mm	€	L 2.0D mm	€	L 2.5D mm	€	L 3.0D mm	€	Unit
BSF	3/16 - 32	3530-3/16	4.76	5.00	4.83	0,44	7.37	0,48	9.65	0,59	12.19	0,68	14.48	0,81	100
BSF	1/4 - 26	3530-1/4	6.35	6.60	6.35	0,42	9.65	0,44	12.70	0,51	16.00	0,63	19.05	0,72	100
BSF	5/16 - 22	3530-5/16	7.94	8.30	7.87	0,44	11.94	0,54	15.75	0,60	19.81	0,72	23.62	0,87	100
BSF	3/8 - 20	3530-3/8	9.52	9.80	9.65	0,84	14.48	0,90	19.30	1,07	24.13	1,25	28.96	1,50	100
BSF	7/16 - 18	3530-7/16	11.11	11.60	11.18	1,03	16.76	1,12	22.35	1,29	27.94	1,53	33.53	1,88	100
BSF	1/2 - 16	3530-1/2	12.70	13.25	12.70	1,03	19.05	1,12	25.40	1,29	31.75	1,53	38.10	1,88	100
BSF	9/16 - 16	3530-9/16	14.29	14.75	14.22	2,56	21.34	3,39	28.45	4,19	35.56	4,99	42.67	6,78	50
BSF	5/8 - 14	3530-5/8	15.88	16.50	16.00	2,56	24.13	3,39	32.00	4,19	40.13	4,99	48.01	6,11	50
BSF	3/4 - 12	3530-3/4	19.05	19.50	19.05	3,31	28.70	4,24	38.10	5,19	47.75	6,21	57.15	7,46	50
BSF	7/8 - 11	3530-7/8	22.23	22.75	22.35	4,24	33.53	5,94	44.70	7,42	55.88	8,94	67.06	10,70	25
BSF	1 - 10	3530-1	25.40	26.25	25.40	4,24	38.10	5,94	50.80	7,42	63.50	8,94	76.20	10,70	25

powercoil by celesa

INSERTO LIBERO

BSP (GAS) | FREE | BSP | AISI 304 | SBAC AS 4736 SBAC AS 4947 | ...D







			D1 mm	Ø	L 1.0D mm	€	L 1.5D mm	€	L 2.0D mm	€	Unit
BSP	1/8 - 28	**3546-1/8**	9.73	10.00	3.30	**0,62**	4.83	**0,87**	6.35	**0,97**	100
BSP	1/4 - 19	**3546-1/4**	13.16	13.75	6.35	**0,83**	9.65	**1,19**	12.70	**1,34**	100
BSP	3/8 - 19	**3546-3/8**	16.66	17.00	9.65	**0,74**	14.22	**1,35**	19.05	**1,53**	100
BSP	1/2 - 14	**3546-1/2**	20.95	21.50	12.70	**1,92**	19.05	**1,94**	25.40	**3,08**	50
BSP	5/8 - 14	**3546-5/8**	22.91	23.50	16.00	**2,94**	23.88	**4,34**	31.75	**4,53**	50
BSP	3/4 - 14	**3546-3/4**	26.44	27.00	19.05	**2,94**	28.70	**4,34**	38.10	**4,53**	50
BSP	7/8 - 14	**3546-7/8**	30.20	30.50	22.35	**7,55**	33.53	**13,27**	44.45	**16,55**	25
BSP	1 - 11	**3546-1**	33.25	33.75	25.40	**8,46**	38.10	**14,86**	50.80	**17,02**	25

NPT | FREE | NPT | 60° p 1:16 | AISI 304 | SBAC AS 4737-48 SBAC AS 4948-59 | ...D

			L 1.5D mm	€	Unit
NPT	1/8 - 27	**3552-1/8**	4.78	**1,24**	100
NPT	1/4 - 18	**3552-1/4**	9.53	**1,79**	100
NPT	3/8 - 18	**3552-3/8**	14.30	**2,25**	100
NPT	1/2 - 14	**3552-1/2**	19.05	**3,69**	50
NPT	3/4 - 14	**3552-3/4**	28.58	**5,29**	50
NPT	1 - 11.1/2	**3552-1**	38.10	**7,10**	25

X.XD

Esempio di codifica:		1.0D	1.5D
	BSP 1/8-28	**3546-1/8x1.0D**	**3546-1/8x1.5D**

INSERTO LIBERO

UNx8 | FREE | 8-UN | AISI 304 | ...D







			D1 mm	Ø	L 1.0D mm	€	L 1.5D mm	€	L 2.0D mm	€	Unit
UN	1.1/8 - 8	**3570-1.1/8**	28.57	28.50	28.70	**11,14**	42.93	**13,14**	57.15	**14,02**	10
UN	1.1/4 - 8	**3570-1.1/4**	31.75	32.00	31.75	**13,35**	47.75	**16,11**	63.50	**18,23**	10
UN	1.3/8 - 8	**3570-1.3/8**	34.92	35.00	35.05	**15,07**	52.32	**20,02**	69.85	**22,04**	10
UN	1.1/2 - 8	**3570-1.1/2**	38.10	38.00	38.10	**16,81**	57.15	**22,31**	76.20	**26,17**	10
UN	1.5/8 - 8	**3570-1.5/8**	41.27	41.00	41.40	**18,42**	61.98	**23,67**	82.55	**29,17**	10
UN	1.3/4- 8	**3570-1.3/4**	44.45	44.50	44.45	**19,96**	66.80	**25,71**	88.90	**29,57**	10
UN	1.7/8 - 8	**3570-1.7/8**	47.62	47.50	47.75	**21,55**	71.37	**27,58**	95.25	**34,04**	10
UN	2 - 8	**3570-2**	50.80	51.00	50.80	**23,06**	76.20	**29,62**	101.60	**36,48**	10

BA | FREE | BA | AISI 304 | SBAC AS 4736 SBAC AS 4947 | ...D

		D1 mm	Ø	L 1.0D mm	€	L 1.5D mm	€	L 2.0D mm	€	L 2.5D mm	€	L 3.0D mm	€	Unit
BA 0	**3544-0**	6.00	6.20	6.10	**2,76**	8.89	**3,65**	11.94	**4,38**	14.99	**5,03**	18.03	**5,79**	100
BA 2	**3544-2**	4.70	4.90	4.83	**1,44**	7.11	**1,60**	9.40	**1,76**	11.68	**2,07**	14.22	**2,24**	100
BA 4	**3544-4**	3.60	3.80	3.56	**1,44**	5.33	**1,60**	7.11	**1,76**	8.89	**2,07**	10.92	**2,24**	100
BA 6	**3544-6**	2.80	2.90	2.79	**1,44**	4.32	**1,60**	5.59	**1,76**	7.11	**2,07**	8.38	**2,24**	100

X.XD

Esempio di codifica:		1.0D	1.5D
	UN 1.1/8 - 8	**3570-1.1/8x1.0D**	**3570-1.1/8x1.5D**

INSERTO LIBERO

BSB | FREE | BSB | AISI 304 | ...D





			D1 mm	Ø	1.0D L mm	1.0D €	1.5D L mm	1.5D €	2.0D L mm	2.0D €	Unit
BSB	1/4 - 26	**3560-1/4**	6,35	6.60	6,35	**1,69**	9.53	**2,33**	12.70	**2,55**	100
BSB	5/16 - 26	**3560-5/16**	7,94	8.20	7,95	**0,76**	11.91	**0,91**	15.88	**1,23**	100
BSB	3/8 - 26	**3560-3/8**	9,52	9.80	9,53	**0,88**	14.30	**1,06**	19.05	**1,44**	100
BSB	7/16 - 26	**3560-7/16**	11,11	11.30	11,13	**0,93**	16.66	**1,44**	22.23	**1,95**	100
BSB	1/2 - 26	**3560-1/2**	12,70	12.70	12,70	**1,91**	19.05	**2,42**	25.40	**3,08**	50

M | MF | FREE | M/MF | AISI 304 | ...D

		Ø	8.40mm €	12.40mm €	16.40mm €	Unit
14x1.25	**3522-14.00**	14.25	**1,03**	**1,03**	**1,03**	50

		Ø	1/2" €	3/4" €	Unit
10x1.00	**3522-10.00**	10.30	**0,51**	-	100
12x1.25	**3522-12.00**	12.30	**0,62**	**0,75**	100
14x1.25	**3522-14.00**	14.25	**0,89**	**1,38**	50
18x1.50	**3522-18.00**	18.50	**1,20**	-	50



M14x1,25

M12x1,25

			0.339" €	3/8" €	7/16" €	Unit
10x1.00	**3522-10.00**	10.30	**0,43**	-	-	100
14x1.25	**3522-14.00**	14.25	-	**0,97**	**1,06**	50

M
MF

FREE

M/MF

AISI 304

BS7752
DIN8140

...DP

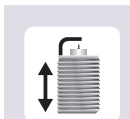




INSERTO LIBERO

D		€	D1 mm	L mm		mm	60° 4-5	Accessori	
M 3 x 0.50	3520-3.00X1.0DP	4,03	1.00	3.00	10	3.20	3520-3.00I	3500-HIT4	3500-TB4
M 3 x 0.50	3520-3.00X1.5DP	4,21	1.50	4.50	10	3.20	3520-3.00I	3500-HIT4	3500-TB4
M 3 x 0.50	3520-3.00X2.0DP	4,77	2.00	6.00	10	3.20	3520-3.00I	3500-HIT4	3500-TB4
M 4 x 0.70	3520-4.00X1.0DP	3,83	1.00	4.00	10	4.20	3520-4.00I	3500-HIT6	3500-TB6
M 4 x 0.70	3520-4.00X1.5DP	4,03	1.50	6.00	10	4.20	3520-4.00I	3500-HIT6	3500-TB6
M 4 x 0.70	3520-4.00X2.0DP	4,77	2.00	8.00	10	4.20	3520-4.00I	3500-HIT6	3500-TB6
M 5 x 0.80	3520-5.00X1.0DP	4,77	1.00	5.00	10	5.20	3520-5.00I	3500-HIT8	3500-TB8
M 5 x 0.80	3520-5.00X1.5DP	3,83	1.50	7.50	10	5.20	3520-5.00I	3500-HIT8	3500-TB8
M 5 x 0.80	3520-5.00X2.0DP	5,30	2.00	10.00	10	5.20	3520-5.00I	3500-HIT8	3500-TB8
M 6 x 1.00	3520-6.00X1.0DP	4,94	1.00	6.00	10	6.30	3520-6.00I	3500-HIT9	3500-TB9
M 6 x 1.00	3520-6.00X1.5DP	4,03	1.50	9.00	10	6.30	3520-6.00I	3500-HIT9	3500-TB9
M 6 x 1.00	3520-6.00X2.0DP	6,04	2.00	12.00	10	6.30	3520-6.00I	3500-HIT9	3500-TB9
M 6 x 1.00	3520-6.00X2.5DP	7,31	2.50	15.00	10	6.30	3520-6.00I	3500-HIT9	3500-TB9
M 8 x 1.00	3521-8.00X1.0DP	5,67	1.00	8.00	10	8.30	3521-8.00I	3500-HIT11	3500TB12
M 8 x 1.00	3521-8.00X1.5DP	6,04	1.50	12.00	10	8.30	3521-8.00I	3500-HIT11	3500TB12
M 8 x 1.00	3521-8.00X2.0DP	7,68	2.00	16.00	10	8.30	3521-8.00I	3500-HIT11	3500TB12
M 8 x 1.25	3520-8.00X1.0DP	4,94	1.00	8.00	10	8.30	3520-8.00I	3500-HIT11	3500-TB12
M 8 x 1.25	3520-8.00X1.5DP	5,30	1.50	12.00	10	8.30	3520-8.00I	3500-HIT11	3500-TB12
M 8 x 1.25	3520-8.00X2.0DP	7,31	2.00	16.00	10	8.30	3520-8.00I	3500-HIT11	3500-TB12
M 10 x 1.25	3521-10.00X1.5DP	7,07	1.50	15.00	10	10.30	3521-10.00I	3500-HIT13	3500-TB13
M 10 x 1.50	3520-10.00X1.0DP	6,17	1.00	10.00	10	10.40	3520-10.00I	3500-HIT13	3500-TB13
M 10 x 1.50	3520-10.00X1.5DP	7,07	1.50	15.00	10	10.40	3520-10.00I	3500-HIT13	3500-TB13
M 10 x 1.50	3520-10.00X2.0DP	8,12	2.00	20.00	10	10.40	3520-10.00I	3500-HIT13	3500-TB13
M 12 x 1.50	3521-12.00X1.5DP	10,42	1.50	18.00	10	12.40	3521-12.00I	3500-HIT15	3500-TB15
M 12 x 1.75	3520-12.00X1.0DP	8,65	1.00	12.00	10	12.50	3520-12.00I	3500-HIT15	3500-TB15
M 12 x 1.75	3520-12.00X1.5DP	10,42	1.50	18.00	10	12.50	3520-12.00I	3500-HIT15	3500-TB15
M 12 x 1.75	3520-12.00X2.0DP	12,24	2.00	24.00	10	12.50	3520-12.00I	3500-HIT15	3500-TB15
M 14 x 1.50	3521-14.00X1.5DP	7,68	1.50	21.00	5	14.40	3521-14.00I	3500-HIT16	–
M 14 x 2.00	3520-14.00X1.0DP	6,71	1.00	14.00	5	14.50	3520-14.00I	3500-HIT16	–
M 14 x 2.00	3520-14.00X1.5DP	7,68	1.50	21.00	5	14.50	3520-14.00I	3500-HIT16	–
M 14 x 2.00	3520-14.00X2.0DP	8,03	2.00	28.00	5	14.50	3520-14.00I	3500-HIT16	–
M 16 x 1.50	3521-16.00X1.5DP	9,45	1.50	24.00	5	16.50	3521-16.00I	3500-HIT18	–
M 16 x 2.00	3520-16.00X1.0DP	9,01	1.00	16.00	5	16.50	3520-16.00I	3500-HIT18	–
M 16 x 2.00	3520-16.00X1.5DP	9,45	1.50	24.00	5	16.50	3520-16.00I	3500-HIT18	–
M 16 x 2.00	3520-16.00X2.0DP	11,66	2.00	32.00	5	16.50	3520-16.00I	3500-HIT18	–
M 18 x 2.00	3521-18.00X1.5DP	15,36	1.50	27.00	5	18.50	3521-18.00I	3500-HIT20	–
M 18 x 2.50	3520-18.00X1.0DP	12,21	1.00	18.00	5	19.00	3520-18.00I	3500-HIT20	–
M 18 x 2.50	3520-18.00X1.5DP	14,27	1.50	27.00	5	19.00	3520-18.00I	3500-HIT20	–
M 18 x 2.50	3520-18.00X2.0DP	19,34	2.00	36.00	5	19.00	3520-18.00I	3500-HIT20	–
M 20 x 2.50	3520-20.00X1.0DP	14,27	1.00	20.00	5	20.75	3520-20.00I	3500-HIT21	–
M 20 x 2.50	3520-20.00X1.5DP	18,04	1.50	30.00	5	20.75	3520-20.00I	3500-HIT21	–
M 20 x 2.50	3520-20.00X2.0DP	23,18	2.00	40.00	5	20.75	3520-20.00I	3500-HIT21	–
M 22 x 2.50	3520-22.00X1.5DP	11,61	1.50	33.00	3	22.75	3520-22.00I	3500-HIT22	–
M 22 x 2.50	3520-22.00X2.0DP	14,71	2.00	44.00	3	22.75	3520-22.00I	3500-HIT22	–
M 24 x 3.00	3520-24.00X1.5DP	13,11	1.50	36.00	3	24.50	3520-24.00I	3500-HIT23	–

Accessori non inclusi nel prezzo.





M14x1,25 M12x1,25

D		€	D1 mm	L		mm	60°	Accessori	
M 12 x 1.25	3522-12.00X1/2P	8,46	-	1/2"	10	12.30	3522-12.00PN	3500-HIT15	3500-TB15
M 12 x 1.25	3522-12.00X3/4P	10,42	-	3/4"	10	12.30	3522-12.00PN	3500-HIT15	3500-TB15
M 14 x 1.25	3522-14.00X3/8P	13,48	-	3/8"	10	14.30	3522-14.00PN	3500-HIT17	3500-HIT17
M 14 x 1.25	3522-14.00X1/2P	12,54	-	1/2"	10	14.30	3522-14.00PN	3500-HIT17	3500-HIT17
M 14 x 1.25	3522-14.00X3/4P	19,09	-	3/4"	10	14.30	3522-14.00PN	3500-HIT17	3500-HIT17
M 14 x 1.25	3522-14.00X8.4P	7,15	-	8.4 mm	5	14.30	3522-14.00PN	3500-HIT17	3500-HIT17
M 14 x 1.25	3522-14.00X12.4P	7,15	-	12.4"	5	14.30	3522-14.00PN	3500-HIT17	3500-HIT17
M 14 x 1.25	3522-14.00X16.4P	7,15	-	16.4"	5	14.30	3522-14.00PN	3500-HIT17	3500-HIT17

Accessori non inclusi nel prezzo.

powercoil® by celesa

INSERTO LIBERO

UNC UNF

FREE

UNC/UNF

AISI 304

SBAC AS 6734
SBAC AS 8456

SBAC AS 6733
SBAC AS 8455

...DP

			€	D1 mm	L mm		mm	60° 4-5		
							Accessori			
UNC	Nº6 - 32	**3532-6GX1.5DP**	**4,23**	1.50	5.33	10	3.80	3532-6GI	3500-HIT5	3500-TB5
UNC	Nº8 - 32	**3532-8GX1.5DP**	**4,46**	1.50	6.35	10	4.40	3532-8GI	3500-HIT6	3500-TB6
UNC	Nº10 - 24	**3532-10GX1.5DP**	**4,95**	1.50	7.11	10	5.20	3532-10GI	3500-HIT7	3500-TB8
UNC	1/4 - 20	**3532-1/4X1.5DP**	**5,66**	1.50	9.65	10	6.70	3532-1/4I	3500-HIT9	3500-TB9
UNC	5/16 - 18	**3532-5/16X1.0DP**	**6,89**	1.00	7.87	10	8.30	3532-5/16I	3500-HIT10	3500-TB12
UNC	5/16 - 18	**3532-5/16X1.5DP**	**8,31**	1.50	11.94	10	8.30	3532-5/16I	3500-HIT10	3500-TB12
UNC	3/8 - 16	**3532-3/8X1.5DP**	**10,42**	1.50	14.22	10	9.90	3532-3/8I	3500-HIT13	3500-TB12
UNC	3/8 - 16	**3532-3/8X2.0DP**	**13,77**	2.00	19.05	10	9.90	3532-3/8I	3500-HIT13	3500-TB12
UNC	7/16 - 14	**3532-7/16X1.5DP**	**13,94**	1.50	16.76	10	11.60	3532-7/16I	3500-HIT14	3500-TB14
UNC	1/2 - 13	**3532-1/2X1.5DP**	**13,94**	1.50	19.05	10	13.00	3532-1/2I	3500-HIT15	3500-TB15
UNC	5/8 - 11	**3532-5/8X1.5DP**	**14,31**	1.50	23.88	5	16.50	3532-5/8I	3500-HIT18	–
UNC	3/4 - 10	**3532-3/4X1.5DP**	**16,85**	1.50	28.70	5	20.00	3532-3/4I	3500-HIT20	–
UNC	7/8 - 9	**3532-7/8X1.5DP**	**13,16**	1.50	33.27	3	23.00	3532-7/8I	3500-HIT22	–
UNC	1 - 8	**3532-1X1.5DP**	**23,00**	1.50	38.10	3	26.25	3532-1I	3500-HIT23	–

			€	D1 mm	L mm		mm	60° 4-5		
							Accessori			
UNF	Nº10 - 32	**3534-10GX1.5DP**	**5,12**	1.50	7.11	10	5.10	3534-10GI	3500-HIT8	3500-TB8
UNF	1/4 - 28	**3534-1/4X1.5DP**	**5,12**	1.50	9.65	10	6.70	3534-1/4I	3500-HIT9	3500-TB9
UNF	5/16 - 24	**3534-5/16X1.5DP**	**7,25**	1.50	11.94	10	8.30	3534-5/16I	3500-HIT11	3500-TB12
UNF	3/8 - 24	**3534-3/8X1.5DP**	**10,42**	1.50	14.22	10	9.80	3534-3/8I	3500-HIT13	3500-TB13
UNF	7/16 - 20	**3534-7/16X1.5DP**	**13,94**	1.50	16.76	10	11.50	3534-7/16I	3500-HIT14	3500-TB14
UNF	1/2 - 20	**3534-1/2X1.5DP**	**13,94**	1.50	19.05	10	13.00	3534-1/2I	3500-HIT15	3500-TB15
UNF	5/8 - 18	**3534-5/8X1.5DP**	**15,42**	1.50	24.13	5	16.50	3534-5/8I	3500-HIT18	–
UNF	3/4 - 16	**3534-3/4X1.5DP**	**16,85**	1.50	28.70	5	19.50	3534-3/4I	3500-HIT21	–

Accessori non inclusi nel prezzo.

BSP (GAS)

FREE

BSP

AISI 304

BS84

...DP





			€	D1 mm	L mm		mm	55° 4-5	
							Accessori		
BSP	1/8 - 28	**3546-1/8X1.5DP**	**12,16**	1.50	4.83	10	10.00	3546-1/8I	3500-HIT14
BSP	1/4 - 19	**3546-1/4X1.5DP**	**16,66**	1.50	9.65	10	13.75	3546-1/4I	3500-HIT16
BSP	3/8 - 19	**3546-3/8X1.5DP**	**18,90**	1.50	14.22	10	17.00	3546-3/8I	3500-HIT20
BSP	1/2 - 14	**3546-1/2X1.5DP**	**27,13**	1.50	19.05	10	21.50	3546-1/2I	3500-HIT23
BSP	3/4 - 14	**3546-3/4X1.5DP**	**30,30**	1.50	28.70	5	27.00	3546-3/4I	3500-HIT24
BSP	1 - 11	**3546-1X1.5DP**	**55,73**	1.50	38.10	3	33.75	3546-1I	3500-HIT27

Accessori non inclusi nel prezzo.

INSERTI AUTOBLOCCANTE

M MF | LOCK | M/MF | AISI 304 | NASM3329 NASM3330 NASM3331 LN9499 NASM8846 | BS7751 DIN8140 | ...DSL







			L 1.0D				L 1.5D				L 2.0D				
			L	€			L	€			L	€			Unit
			mm	<500	500-999	1000-...	mm	<500	500-999	1000-...	mm	<500	500-999	1000-...	
M 2 x 0.40	**3520-2.00**	2.10	2.00	**0,66**	**0,60**	**0,54**	3.00	**0,86**	**0,76**	**0,70**	4.00	**1,01**	**0,88**	**0,82**	100
M 2.20 x 0.45	**3520-2.20**	2.30	2.20	**0,63**	**0,56**	**0,51**	3.30	**0,82**	**0,72**	**0,67**	4.40	**0,93**	**0,84**	**0,79**	100
M 2.50 x 0.45	**3520-2.50**	2.60	2.50	**0,42**	**0,37**	**0,35**	3.75	**0,43**	**0,40**	**0,38**	5.00	**0,44**	**0,41**	**0,39**	100
M 3 x 0.50	**3520-3.00**	3.20	3.00	**0,32**	**0,28**	**0,26**	4.50	**0,37**	**0,32**	**0,29**	6.00	**0,38**	**0,35**	**0,32**	100
M 3.50 x 0.60	**3520-3.50**	3.70	3.50	**0,38**	**0,35**	**0,32**	5.25	**0,40**	**0,38**	**0,36**	7.00	**0,42**	**0,40**	**0,38**	100
M 4 x 0.70	**3520-4.00**	4.20	4.00	**0,32**	**0,29**	**0,27**	6.00	**0,37**	**0,32**	**0,29**	8.00	**0,38**	**0,34**	**0,30**	100
M 5 x 0.80	**3520-5.00**	5.20	5.00	**0,38**	**0,34**	**0,30**	7.50	**0,39**	**0,35**	**0,32**	10.00	**0,42**	**0,38**	**0,36**	100
M 6 x 1.00	**3520-6.00**	6.30	6.00	**0,41**	**0,37**	**0,35**	9.00	**0,43**	**0,38**	**0,36**	12.00	**0,48**	**0,43**	**0,40**	100
M 7 x 1.00	**3520-7.00**	7.30	7.00	**0,48**	**0,43**	**0,40**	10.50	**0,58**	**0,50**	**0,47**	14.00	**0,64**	**0,58**	**0,51**	100
M 8 x 1.00	**3521-8.00**	8.30	8.00	**0,51**	**0,46**	**0,43**	12.00	**0,56**	**0,47**	**0,44**	16.00	**0,65**	**0,56**	**0,51**	100
M 8 x 1.25	**3520-8.00**	8.30	8.00	**0,42**	**0,38**	**0,36**	12.00	**0,48**	**0,43**	**0,40**	16.00	**0,58**	**0,48**	**0,45**	100
M 9 x 1.25	**3520-9.00**	9.40	9.00	**1,04**	**0,92**	**0,86**	13.50	**1,33**	**1,10**	**1,03**	18.00	**1,40**	**1,17**	**1,08**	100
M 10 x 1.00	**3523-10.00**	10.30	10.00	**0,56**	**0,48**	**0,45**	15.00	**0,68**	**0,59**	**0,53**	20.00	**0,70**	**0,63**	**0,58**	100
M 10 x 1.25	**3521-10.00**	10.30	10.00	**0,53**	**0,47**	**0,44**	15.00	**0,67**	**0,62**	**0,58**	20.00	**0,69**	**0,66**	**0,62**	100
M 10 x 1.50	**3520-10.00**	10.40	10.00	**0,56**	**0,47**	**0,44**	15.00	**0,67**	**0,58**	**0,51**	20.00	**0,70**	**0,63**	**0,59**	100
M 11 x 1.50	**3520-11.00**	11.40	11.00	**1,09**	**0,91**	**0,85**	16.50	**1,10**	**0,93**	**0,87**	22.00	**1,11**	**1,02**	**0,92**	100
M 12 x 1.25	**3523-12.00**	12.30	12.00	**0,89**	**0,74**	**0,68**	18.00	**0,97**	**0,81**	**0,75**	24.00	**1,05**	**0,93**	**0,86**	100
M 12 x 1.50	**3521-12.00**	12.40	12.00	**0,90**	**0,79**	**0,72**	18.00	**0,98**	**0,85**	**0,79**	24.00	**1,08**	**1,01**	**0,91**	100
M 12 x 1.75	**3520-12.00**	12.50	12.00	**0,81**	**0,68**	**0,64**	18.00	**0,97**	**0,82**	**0,76**	24.00	**1,05**	**0,91**	**0,85**	100
M 14 x 1.50	**3521-14.00**	14.50	14.00	**1,24**	**1,10**	**1,03**	21.00	**1,44**	**1,17**	**1,08**	28.00	**1,58**	**1,31**	**1,23**	50
M 14 x 2.00	**3520-14.00**	14.50	14.00	**1,13**	**1,01**	**0,91**	21.00	**1,30**	**1,22**	**1,12**	28.00	**1,60**	**1,52**	**1,41**	50
M 16 x 1.50	**3521-16.00**	16.50	16.00	**1,68**	**1,50**	**1,42**	24.00	**1,81**	**1,62**	**1,50**	32.00	**2,18**	**2,01**	**1,85**	50
M 16 x 2.00	**3520-16.00**	16.50	16.00	**1,56**	**1,40**	**1,29**	24.00	**1,63**	**1,51**	**1,40**	32.00	**2,02**	**1,88**	**1,73**	50
M 18 x 1.50	**3523-18.00**	18.50	18.00	**2,72**	**2,26**	**2,10**	27.00	**2,76**	**2,38**	**2,21**	36.00	**4,22**	**3,47**	**3,18**	50
M 18 x 2.00	**3521-18.00**	18.50	18.00	**2,32**	**2,07**	**1,92**	27.00	**2,59**	**2,42**	**2,30**	36.00	**3,53**	**3,09**	**2,86**	50
M 18 x 2.50	**3520-18.00**	19.00	18.00	**2,34**	**2,07**	**1,92**	27.00	**2,66**	**2,35**	**2,17**	36.00	**3,62**	**3,27**	**3,01**	50
M 20 x 1.50	**3523-20.00**	20.50	20.00	**3,08**	**2,68**	**2,48**	30.00	**3,64**	**3,29**	**3,02**	40.00	**4,25**	**3,70**	**3,39**	25
M 20 x 2.00	**3521-20.00**	20.50	20.00	**2,68**	**2,32**	**2,14**	30.00	**3,29**	**2,91**	**2,68**	40.00	**4,22**	**3,69**	**3,39**	25
M 20 x 2.50	**3520-20.00**	20.75	20.00	**2,81**	**2,48**	**2,28**	30.00	**3,39**	**3,02**	**2,78**	40.00	**4,38**	**3,87**	**3,56**	25
M 22 x 1.50	**3523-22.00**	22.50	22.00	**3,12**	**2,96**	**2,65**	33.00	**3,50**	**3,33**	**2,90**	44.00	**4,66**	**4,50**	**3,51**	25
M 22 x 2.00	**3521-22.00**	22.50	22.00	**2,82**	**2,57**	**2,36**	33.00	**3,53**	**3,18**	**2,90**	44.00	**4,47**	**4,14**	**3,90**	25
M 22 x 2.50	**3520-22.00**	22.75	22.00	**2,93**	**2,71**	**2,50**	33.00	**3,66**	**3,33**	**3,07**	44.00	**4,63**	**4,23**	**3,91**	25
M 24 x 1.50	**3523-24.00**	24.50	24.00	**3,58**	**3,39**	**2,86**	36.00	**4,10**	**3,58**	**3,43**	48.00	**4,87**	**4,23**	**3,99**	25
M 24 x 2.00	**3521-24.00**	24.50	24.00	**3,53**	**3,26**	**3,05**	36.00	**4,24**	**3,90**	**3,62**	48.00	**4,69**	**4,43**	**4,27**	25
M 24 x 3.00	**3520-24.00**	25.00	24.00	**3,70**	**3,45**	**3,17**	36.00	**4,43**	**4,14**	**3,80**	48.00	**4,90**	**4,60**	**4,23**	25

X.XD

Ejemplo de codificación:

	1.0D	1.5D
M 14 x 2.00	**3520-14.00x1.0DSL**	**3520-14.00x1.5DSL**

powercoil by celesa

INSERTI AUTOBLOCCANTE

M MF | LOCK | M/MF | AISI 304 | NASM3329 NASM3330 NASM3331 LN9499 NASM8846 | BS7751 DIN8140 | ...DSL

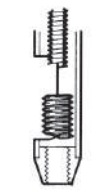


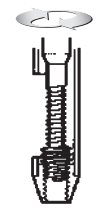


		Ø	L 2.5D mm	€ <500	€ 500-999	€ 1000-...	L 3.0D mm	€ <500	€ 500-999	€ 1000-...	Unit
M 2 x 0.40	**3520-2.00**	2.10	5.00	**1,13**	**1,01**	**0,91**	6.00	**1,42**	**1,25**	**1,16**	100
M 2.20 x 0.45	**3520-2.20**	2.30	5.50	**1,07**	**0,93**	**0,87**	6.60	**1,34**	**1,18**	**1,09**	100
M 2.50 x 0.45	**3520-2.50**	2.60	6.25	**0,46**	**0,43**	**0,40**	9.00	**0,56**	**0,53**	**0,49**	100
M 3 x 0.50	**3520-3.00**	3.20	7.50	**0,43**	**0,41**	**0,39**	9.00	**0,51**	**0,47**	**0,44**	100
M 3.50 x 0.60	**3520-3.50**	3.70	8.75	**0,48**	**0,46**	**0,43**	10.50	**0,60**	**0,54**	**0,50**	100
M 4 x 0.70	**3520-4.00**	4.20	10.00	**0,43**	**0,41**	**0,39**	12.00	**0,48**	**0,44**	**0,41**	100
M 5 x 0.80	**3520-5.00**	5.20	12.50	**0,50**	**0,47**	**0,44**	15.00	**0,62**	**0,56**	**0,51**	100
M 6 x 1.00	**3520-6.00**	6.30	15.00	**0,60**	**0,54**	**0,50**	18.00	**0,70**	**0,64**	**0,60**	100
M 7 x 1.00	**3520-7.00**	7.30	17.50	**0,69**	**0,66**	**0,62**	21.00	**0,83**	**0,79**	**0,72**	100
M 8 x 1.00	**3521-8.00**	8.30	20.00	**0,75**	**0,67**	**0,63**	24.00	**0,91**	**0,86**	**0,82**	100
M 8 x 1.25	**3520-8.00**	8.30	20.00	**0,69**	**0,64**	**0,60**	24.00	**0,83**	**0,75**	**0,69**	100
M 9 x 1.25	**3520-9.00**	9.40	22.50	**1,55**	**1,38**	**1,27**	27.00	**2,02**	**1,85**	**1,71**	100
M 10 x 1.00	**3523-10.00**	10.30	25.00	**0,83**	**0,71**	**0,66**	30.00	**1,13**	**1,02**	**0,92**	100
M 10 x 1.25	**3521-10.00**	10.30	25.00	**0,84**	**0,80**	**0,74**	30.00	**1,16**	**1,11**	**1,04**	100
M 10 x 1.50	**3520-10.00**	10.40	25.00	**0,83**	**0,74**	**0,68**	30.00	**1,13**	**1,04**	**0,96**	100
M 11 x 1.50	**3520-11.00**	11.40	27.50	**1,38**	**1,26**	**1,17**	33.00	**1,69**	**1,62**	**1,50**	100
M 12 x 1.25	**3523-12.00**	12.30	30.00	**1,35**	**1,30**	**1,20**	36.00	**1,69**	**1,61**	**1,58**	100
M 12 x 1.50	**3521-12.00**	12.40	30.00	**1,35**	**1,14**	**1,06**	36.00	**1,74**	**1,72**	**1,58**	100
M 12 x 1.75	**3520-12.00**	12.50	30.00	**1,35**	**1,29**	**1,19**	36.00	**1,69**	**1,66**	**1,53**	100
M 14 x 1.50	**3521-14.00**	14.50	35.00	**1,93**	**1,53**	**1,42**	42.00	**3,21**	**3,16**	**2,92**	50
M 14 x 2.00	**3520-14.00**	14.50	35.00	**1,93**	**1,83**	**1,69**	42.00	**2,32**	**2,25**	**2,07**	50
M 16 x 1.50	**3521-16.00**	16.50	40.00	**2,39**	**2,24**	**2,06**	48.00	**3,09**	**3,00**	**2,76**	50
M 16 x 2.00	**3520-16.00**	16.50	40.00	**2,43**	**2,34**	**2,16**	48.00	**3,01**	**2,95**	**2,72**	50
M 18 x 1.50	**3523-18.00**	18.50	45.00	**4,50**	**3,81**	**3,52**	54.00	**5,04**	**4,43**	**4,08**	50
M 18 x 2.00	**3521-18.00**	18.50	45.00	**4,01**	**3,54**	**3,28**	54.00	**4,69**	**4,43**	**4,08**	50
M 18 x 2.50	**3520-18.00**	19.00	45.00	**4,12**	**3,74**	**3,44**	54.00	**4,83**	**4,66**	**4,18**	50
M 20 x 1.50	**3523-20.00**	20.50	50.00	**4,68**	**4,31**	**3,96**	60.00	**5,97**	**5,46**	**5,03**	25
M 20 x 2.00	**3521-20.00**	20.50	50.00	**4,69**	**4,33**	**4,04**	60.00	**5,97**	**5,66**	**5,51**	25
M 20 x 2.50	**3520-20.00**	20.75	50.00	**4,86**	**4,56**	**4,19**	60.00	**6,08**	**5,89**	**5,42**	25
M 22 x 1.50	**3523-22.00**	22.50	55.00	**5,45**	**4,79**	**4,41**	66.00	**6,92**	**6,64**	**6,03**	25
M 22 x 2.00	**3521-22.00**	22.50	55.00	**5,47**	**5,20**	**5,05**	66.00	**7,86**	**7,32**	**7,01**	25
M 22 x 2.50	**3520-22.00**	22.75	55.00	**5,67**	**5,30**	**4,88**	66.00	**7,67**	**7,11**	**6,54**	25
M 24 x 1.50	**3523-24.00**	24.50	60.00	**6,70**	**5,63**	**5,19**	72.00	**8,45**	**7,15**	**6,58**	25
M 24 x 2.00	**3521-24.00**	24.50	60.00	**6,81**	**6,16**	**5,60**	72.00	**8,13**	**7,77**	**7,67**	25
M 24 x 3.00	**3520-24.00**	25.00	60.00	**7,11**	**6,39**	**5,89**	72.00	**7,69**	**7,48**	**6,88**	25













Nota importante: la lunghezza totale dell'inserto è definita per l'inserto una volta assemblato nella parte.

INSERTI AUTOBLOCCANTE

UNC | LOCK | UNC | AISI 304 | AGS3600 | NASM21209 NASM8846 | ...DSL







			D1 mm	Ø	L mm	1.0D € <500	1.0D € 500-999	1.0D € 1000-...	L mm	1.5D € <500	1.5D € 500-999	1.5D € 1000-...	L mm	2.0D € <500	2.0D € 500-999	2.0D € 1000-...	Unit
UNC	Nº2 - 56	**3532-2G**	**2.18**	2.40	2.29	**0,82**	**0,71**	**0,66**	3.30	**0,96**	**0,83**	**0,78**	4.32	**1,24**	**1,07**	**1,00**	100
UNC	Nº4 - 40	**3532-4G**	**2.84**	3.00	2.79	**0,37**	**0,32**	**0,29**	4.32	**0,40**	**0,35**	**0,32**	5.59	**0,42**	**0,37**	**0,35**	100
UNC	Nº5 - 40	**3532-5G**	**3.17**	3.40	3.30	**0,49**	**0,43**	**0,40**	4.83	**0,51**	**0,46**	**0,43**	6.35	**0,54**	**0,48**	**0,45**	100
UNC	Nº6 - 32	**3532-6G**	**3.50**	3.70	3.56	**0,32**	**0,28**	**0,26**	5.33	**0,38**	**0,34**	**0,30**	7.11	**0,40**	**0,36**	**0,34**	100
UNC	Nº8 - 32	**3532-8G**	**4.17**	4.40	4.06	**0,32**	**0,28**	**0,26**	6.35	**0,38**	**0,34**	**0,30**	8.38	**0,40**	**0,36**	**0,34**	100
UNC	Nº10 - 24	**3532-10G**	**4.83**	5.10	4.83	**0,39**	**0,35**	**0,32**	7.37	**0,42**	**0,37**	**0,35**	9.65	**0,46**	**0,40**	**0,38**	100
UNC	Nº12 - 24	**3532-12G**	**5.49**	5.70	5.59	**0,43**	**0,38**	**0,36**	8.13	**0,48**	**0,42**	**0,40**	10.92	**0,51**	**0,44**	**0,41**	100
UNC	1/4 - 20	**3532-1/4**	**6.35**	6.70	6.35	**0,43**	**0,38**	**0,36**	9.65	**0,48**	**0,42**	**0,40**	12.70	**0,51**	**0,44**	**0,41**	100
UNC	5/16 - 18	**3532-5/16**	**7.94**	8.30	7.87	**0,60**	**0,49**	**0,46**	11.94	**0,69**	**0,60**	**0,54**	15.75	**0,72**	**0,64**	**0,60**	100
UNC	3/8 - 16	**3532-3/8**	**9.52**	9.90	9.65	**0,84**	**0,72**	**0,67**	14.48	**0,88**	**0,78**	**0,71**	19.05	**1,16**	**1,02**	**0,92**	100
UNC	7/16 - 14	**3532-7/16**	**11.11**	11.60	11.18	**0,98**	**0,85**	**0,79**	16.76	**1,18**	**1,03**	**0,93**	22.35	**1,34**	**1,16**	**1,07**	100
UNC	1/2 - 13	**3532-1/2**	**12.70**	13.00	12.70	**1,06**	**0,91**	**0,85**	19.05	**1,18**	**1,03**	**0,93**	25.40	**1,34**	**1,16**	**1,07**	100
UNC	9/16 - 12	**3532-9/16**	**14.28**	15.00	14.22	**2,61**	**2,26**	**2,10**	21.34	**3,48**	**3,00**	**2,76**	28.45	**4,46**	**3,86**	**3,55**	50
UNC	5/8 - 11	**3532-5/8**	**15.87**	16.50	16.00	**2,37**	**2,04**	**1,89**	23.88	**3,16**	**2,73**	**2,52**	31.75	**3,93**	**3,40**	**3,13**	50
UNC	3/4 - 10	**3532-3/4**	**19.05**	19.80	19.05	**2,74**	**2,38**	**2,21**	28.70	**3,73**	**3,23**	**2,98**	38.10	**4,65**	**4,03**	**3,72**	50
UNC	7/8 - 9	**3532-7/8**	**22.22**	23.00	22.35	**3,81**	**3,31**	**3,05**	33.53	**5,71**	**4,92**	**4,55**	44.45	**7,25**	**6,27**	**5,76**	25
UNC	1 - 8	**3532-1**	**25.40**	26.20	25.40	**5,17**	**4,46**	**4,12**	38.10	**7,73**	**6,68**	**6,14**	50.80	**9,82**	**8,46**	**7,80**	25

Nota importante: la lunghezza totale dell'inserto è definita per l'inserto una volta assemblato nella parte.

X.XD

Ejemplo de codificación:		1.0D	1.5D
	UNC 1/4 - 20	**3532-1/4x1.0DSL**	**3532-1/4x1.5DSL**

powercoil by celesa

INSERTI AUTOBLOCCANTE

UNC | LOCK | UNC | AISI 304 | AGS3600 | NASM21209 NASM8846 | ...DSL





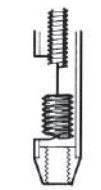


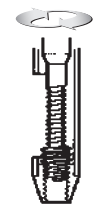
			D1 mm	Ø	L mm	€ <500	€ 500-999	€ 1000-...	L mm	€ <500	€ 500-999	€ 1000-...	Unit
UNC	Nº2 - 56	**3532-2G**	**2.18**	2.40	5.59	**1,40**	**1,20**	**1,11**	6.60	**1,50**	**1,29**	**1,19**	100
UNC	Nº4 - 40	**3532-4G**	**2.84**	3.00	7.11	**0,48**	**0,42**	**0,40**	8.64	**0,60**	**0,49**	**0,46**	100
UNC	Nº5 - 40	**3532-5G**	**3.17**	3.40	7.87	**0,60**	**0,49**	**0,46**	9.65	**0,82**	**0,70**	**0,66**	100
UNC	Nº6 - 32	**3532-6G**	**3.50**	3.70	8.89	**0,43**	**0,38**	**0,36**	10.41	**0,50**	**0,44**	**0,41**	100
UNC	Nº8 - 32	**3532-8G**	**4.17**	4.40	10.41	**0,43**	**0,38**	**0,36**	12.45	**0,50**	**0,44**	**0,41**	100
UNC	Nº10 - 24	**3532-10G**	**4.83**	5.10	12.19	**0,54**	**0,47**	**0,44**	14.48	**0,66**	**0,59**	**0,53**	100
UNC	Nº12 - 24	**3532-12G**	**5.49**	5.70	13.72	**0,64**	**0,56**	**0,51**	16.51	**0,78**	**0,67**	**0,63**	100
UNC	1/4 - 20	**3532-1/4**	**6.35**	6.70	16.00	**0,64**	**0,56**	**0,51**	19.05	**0,78**	**0,67**	**0,63**	100
UNC	5/16 - 18	**3532-5/16**	**7.94**	8.30	19.81	**0,87**	**0,75**	**0,69**	23.62	**1,06**	**0,91**	**0,85**	100
UNC	3/8 - 16	**3532-3/8**	**9.52**	9.90	23.88	**1,33**	**1,14**	**1,06**	28.70	**1,56**	**1,35**	**1,25**	100
UNC	7/16 - 14	**3532-7/16**	**11.11**	11.60	27.94	**1,60**	**1,39**	**1,28**	33.53	**1,95**	**1,69**	**1,56**	100
UNC	1/2 - 13	**3532-1/2**	**12.70**	13.00	31.75	**1,60**	**1,39**	**1,28**	38.10	**1,95**	**1,69**	**1,56**	100
UNC	9/16 - 12	**3532-9/16**	**14.28**	15.00	35.56	**5,11**	**4,42**	**4,06**	42.93	**6,16**	**5,32**	**4,90**	50
UNC	5/8 - 11	**3532-5/8**	**15.87**	16.50	39.62	**4,69**	**4,06**	**3,75**	47.75	**5,61**	**4,85**	**4,46**	50
UNC	3/4 - 10	**3532-3/4**	**19.05**	19.80	47.75	**5,53**	**4,78**	**4,40**	57.15	**6,62**	**5,72**	**5,27**	50
UNC	7/8 - 9	**3532-7/8**	**22.22**	23.00	55.63	**8,59**	**7,41**	**6,81**	66.80	**10,42**	**9,00**	**8,28**	25
UNC	1 - 8	**3532-1**	**25.40**	26.20	63.50	**11,62**	**10,02**	**9,23**	76.20	**14,09**	**12,17**	**11,21**	25

Nota importante: la lunghezza totale dell'inserto è definita per l'inserto una volta assemblato nella parte.













INSERTI AUTOBLOCCANTE

UNF | LOCK | UNF | AISI 304 | NASM21209 NASM8846 | ...DSL







		D1 mm	Ø	L mm	1.0D € <500	500-999	1000-...	L mm	1.5D € <500	500-999	1000-...	L mm	2.0D € <500	500-999	1000-...	Unit
UNF Nº4 - 48	3534-4G	2.84	3.00	2.79	0,74	0,66	0,62	4.32	0,85	0,75	0,69	5.59	1,00	0,87	0,81	100
UNF Nº6 - 40	3534-6G	3.50	3.70	3.56	0,74	0,66	0,62	5.33	0,85	0,75	0,69	7.11	1,00	0,87	0,81	100
UNF Nº8 - 36	3534-8G	4.17	4.40	4.06	0,74	0,66	0,62	6.35	0,85	0,75	0,69	8.38	1,00	0,87	0,81	100
UNF Nº10 - 32	3534-10G	4.83	5.10	4.83	0,42	0,37	0,35	7.37	0,43	0,38	0,36	9.65	0,51	0,44	0,41	100
UNF 1/4 - 28	3534-1/4	6.35	6.60	6.35	0,42	0,37	0,35	9.65	0,43	0,38	0,36	12.70	0,51	0,44	0,41	100
UNF 5/16 - 24	3534-5/16	7.94	8.20	7.87	0,60	0,49	0,46	11.94	0,63	0,51	0,48	16.00	0,72	0,64	0,60	100
UNF 3/8 - 24	3534-3/8	9.52	9.80	9.65	0,85	0,72	0,67	14.48	0,88	0,78	0,71	19.05	1,06	0,91	0,85	100
UNF 7/16 - 20	3534-7/16	11.11	11.50	11.18	1,06	0,91	0,85	16.76	1,18	1,03	0,93	22.35	1,34	1,16	1,07	100
UNF 1/2 - 20	3534-1/2	12.70	13.00	12.70	1,06	0,91	0,85	19.05	1,18	1,03	0,93	25.40	1,34	1,16	1,07	100
UNF 9/16 - 18	3534-9/16	14.29	14.75	14.22	2,33	2,00	1,84	21.34	2,48	2,06	1,91	28.70	2,98	2,56	2,35	50
UNF 5/8 - 18	3534-5/8	15.87	16.50	16.00	2,37	2,01	1,85	23.88	2,48	2,14	1,96	31.75	2,98	2,56	2,35	50
UNF 3/4 - 16	3534-3/4	19.05	19.50	19.05	3,12	2,69	2,49	28.70	4,35	3,75	3,45	38.10	5,26	4,53	4,17	50
UNF 7/8 - 14	3534-7/8	22.22	22.50	22.35	5,31	4,58	4,21	33.27	7,84	6,76	6,22	44.45	9,96	8,59	7,91	25
UNF 1 - 12	3534-1	25.40	26.00	25.40	5,31	4,58	4,21	38.10	7,84	6,76	6,22	50.80	9,96	8,59	7,91	25
UNS 1 - 14	3535-1	25.40	26.00	25.40	5,31	4,63	4,26	38.10	7,84	6,84	6,30	50.80	9,96	8,69	8,00	25

Nota importante: la lunghezza totale dell'inserto è definita per l'inserto una volta assemblato nella parte.

X.XD

Ejemplo de codificación:		1.0D	1.5D
	UNF Nº4 - 48	3534-4Gx1.0DSL	3534-4Gx1.5DSL

INSERTI AUTOBLOCCANTE

UNF | LOCK | UNF | AISI 304 | NASM21209 NASM8846 | ...DSL



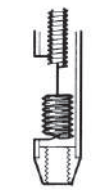


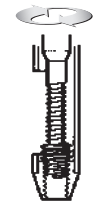


			D1 mm	Ø	L mm	2.5D € <500	2.5D € 500-999	2.5D € 1000-...	L mm	3.0D € <500	3.0D € 500-999	3.0D € 1000-...	Unit
UNF	Nº4 - 48	**3534-4G**	**2.84**	3.00	7.11	**1,12**	**1,01**	**0,91**	8.64	**1,58**	**1,40**	**1,29**	100
UNF	Nº6 - 40	**3534-6G**	**3.50**	3.70	8.89	**1,12**	**1,01**	**0,91**	10.41	**1,58**	**1,40**	**1,29**	100
UNF	Nº8 - 36	**3534-8G**	**4.17**	4.40	10.41	**1,12**	**1,01**	**0,91**	12.45	**1,58**	**1,40**	**1,29**	100
UNF	Nº10 - 32	**3534-10G**	**4.83**	5.10	12.19	**0,64**	**0,56**	**0,51**	14.48	**0,78**	**0,67**	**0,63**	100
UNF	1/4 - 28	**3534-1/4**	**6.35**	6.60	16.00	**0,64**	**0,56**	**0,51**	19.05	**0,78**	**0,67**	**0,63**	100
UNF	5/16 - 24	**3534-5/16**	**7.94**	8.20	19.81	**0,87**	**0,78**	**0,71**	23.88	**1,06**	**0,91**	**0,85**	100
UNF	3/8 - 24	**3534-3/8**	**9.52**	9.80	23.88	**1,30**	**1,14**	**1,06**	28.70	**1,56**	**1,35**	**1,25**	100
UNF	7/16 - 20	**3534-7/16**	**11.11**	11.50	27.69	**1,60**	**1,40**	**1,29**	33.27	**1,95**	**1,69**	**1,56**	100
UNF	1/2 - 20	**3534-1/2**	**12.70**	13.00	31.75	**1,60**	**1,40**	**1,29**	38.10	**1,95**	**1,69**	**1,56**	100
UNF	9/16 - 18	**3534-9/16**	**14.29**	14.75	35.81	**3,62**	**3,16**	**2,92**	42.93	**4,18**	**3,61**	**3,33**	50
UNF	5/8 - 18	**3534-5/8**	**15.87**	16.50	39.62	**3,80**	**3,35**	**3,09**	47.75	**4,18**	**3,61**	**3,33**	50
UNF	3/4 - 16	**3534-3/4**	**19.05**	19.50	47.75	**6,36**	**5,55**	**5,11**	57.15	**7,62**	**6,58**	**6,07**	50
UNF	7/8 - 14	**3534-7/8**	**22.22**	22.50	55.63	**11,46**	**9,98**	**9,19**	66.80	**13,72**	**11,85**	**10,92**	25
UNF	1 - 12	**3534-1**	**25.40**	26.00	63.50	**13,66**	**11,91**	**10,97**	76.20	**16,44**	**14,21**	**13,07**	25
UNS	1 - 14	**3535-1**	**25.40**	26.00	63.50	**13,66**	**11,91**	**10,97**	76.20	**16,44**	**14,34**	**13,20**	25













Nota importante: la lunghezza totale dell'inserto è definita per l'inserto una volta assemblato nella parte.

KIT DI INSERTI LIBERI

M
MF

FREE

M/MF

1.5D

AISI 304

HSS

HSS

...K







				D	L mm		mm			
						Contenuto				
M	**2 x 0.40**	**3520-2.00K**	**55,03**	1.50	3.00	20	2.10	3520-2.00I	3500-HIT2	3500-TB2
M	**2.20 x 0.45**	**3520-2.20K**	**73,67**	1.50	3.30	20	2.30	3520-2.20I	3500-HIT2	3500-TB2
M	**2.50 x 0.45**	**3520-2.50K**	**50,87**	1.50	3.75	20	2.60	3520-2.50I	3500-HIT3	3500-TB3
M	**3 x 0.50**	**3520-3.00K**	**50,87**	1.50	4.50	20	3.20	3520-3.00I	3500-HIT4	3500-TB4
M	**3.50 x 0.60**	**3520-3.50K**	**50,87**	1.50	5.25	20	3.70	3520-3.50I	3500-HIT5	3500-TB5
M	**4 x 0.70**	**3520-4.00K**	**50,87**	1.50	6.00	20	4.20	3520-4.00I	3500-HIT6	3500-TB6
M	**5 x 0.80**	**3520-5.00K**	**50,62**	1.50	7.50	20	5.20	3520-5.00I	3500-HIT8	3500-TB8
M	**6 x 1.00**	**3520-6.00K**	**54,52**	1.50	9.00	20	6.30	3520-6.00I	3500-HIT9	3500-TB9
M	**7 x 1.00**	**3520-7.00K**	**69,32**	1.50	10.50	20	7.30	3520-7.00I	3500-HIT10	3500-TB11
M	8 x 1.00	**3521-8.00K**	**69,32**	1.50	12.00	20	8.30	3521-8.00I	3500-HIT11	3500-TB12
M	**8 x 1.25**	**3520-8.00K**	**69,32**	1.50	12.00	20	8.30	3520-8.00I	3500-HIT11	3500-TB12
M	**9 x 1.25**	**3520-9.00K**	**76,89**	1.50	13.50	15	9.40	3520-9.00I	3500-HIT13	3500-TB12
M	10 x 1.00	**3523-10.00K**	**74,24**	1.50	15.00	15	10.30	3523-10.00I	3500-HIT13	3500-TB13
M	10 x 1.25	**3521-10.00K**	**74,24**	1.50	15.00	15	10.30	3521-10.00I	3500-HIT13	3500-TB13
M	**10 x 1.50**	**3520-10.00K**	**74,24**	1.50	15.00	15	10.40	3520-10.00I	3500-HIT13	3500-TB13
M	11 x 1.00	**3523-11.00K**	**102,89**	1.50	16.50	10	11.30	3523-11.00I	3500-HIT14	3500-TB14
M	11 x 1.25	**3521-11.00K**	**102,89**	1.50	16.50	10	11.30	3521-11.00I	3500-HIT14	3500-TB14
M	**11 x 1.50**	**3520-11.00K**	**85,11**	1.50	16.50	10	11.40	3520-11.00I	3500-HIT14	3500-TB14
M	12 x 1.00	**3524-12.00K**	**85,11**	1.50	18.00	10	12.30	3524-12.00I	3500-HIT15	3500-TB15
M	12 x 1.25	**3523-12.00K**	**85,11**	1.50	18.00	10	12.30	3523-12.00I	3500-HIT15	3500-TB15
M	12 x 1.50	**3521-12.00K**	**85,11**	1.50	18.00	10	12.40	3521-12.00I	3500-HIT15	3500-TB15
M	**12 x 1.75**	**3520-12.00K**	**85,11**	1.50	18.00	10	12.50	3520-12.00I	3500-HIT15	3500-TB15
M	13 x 1.25	**3523-13.00K**	**122,49**	1.50	19.50	10	–	3523-13.00I	3500-HIT15	–
M	13 x 1.50	**3521-13.00K**	**122,49**	1.50	19.50	10	–	3521-13.00I	3500-HIT15	–
M	**13 x 1.75**	**3520-13.00K**	**122,49**	1.50	19.50	10	–	3520-13.00I	3500-HIT15	–
M	14 x 1.00	**3524-14.00K**	**97,84**	1.50	21.00	10	–	3524-14.00I	3500-HIT16	–
M	14 x 1.25	**3523-14.00K**	**97,84**	1.50	21.00	10	–	3523-14.00I	3500-HIT16	–
M	14 x 1.50	**3521-14.00K**	**97,84**	1.50	21.00	10	–	3521-14.00I	3500-HIT16	–
M	**14 x 2.00**	**3520-14.00K**	**97,84**	1.50	21.00	10	–	3520-14.00I	3500-HIT16	–
M	15 x 1.50	**3521-15.00K**	**146,40**	1.50	22.50	10	–	3521-15.00I	3500-HIT16	–
M	**15 x 2.00**	**3520-15.00K**	**146,40**	1.50	22.50	10	–	3520-15.00I	3500-HIT16	–
M	16 x 1.50	**3521-16.00K**	**115,24**	1.50	24.00	10	–	3521-16.00I	3500-HIT18	–
M	**16 x 2.00**	**3520-16.00K**	**115,24**	1.50	24.00	10	–	3520-16.00I	3500-HIT18	–
M	18 x 1.50	**3523-18.00K**	**136,89**	1.50	27.00	5	–	3523-18.00I	3500-HIT20	–

KIT DI INSERTI LIBERI







M
MF

FREE

M/MF

1.5D

AISI 304

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			€	D	L mm
M	18 x 2.00	3521-18.00K	136,89	1.50	27.00
M	**18 x 2.50**	3520-18.00K	139,55	1.50	27.00
M	20 x 1.50	3523-20.00K	149,23	1.50	30.00
M	20 x 2.00	3521-20.00K	149,23	1.50	30.00
M	**20 x 2.50**	3520-20.00K	149,23	1.50	30.00
M	22 x 1.50	3523-22.00K	171,38	1.50	33.00
M	22 x 2.00	3521-22.00K	171,38	1.50	33.00
M	**22 x 2.50**	3520-22.00K	171,38	1.50	33.00
M	24 x 1.50	3523-24.00K	196,60	1.50	36.00
M	24 x 2.00	3521-24.00K	196,60	1.50	36.00
M	**24 x 3.00**	3520-24.00K	196,60	1.50	36.00

Contenuto		
5	3521-18.00I	3500-HIT20
5	3520-18.00I	3500-HIT20
5	3523-20.00I	3500-HIT21
5	3521-20.00I	3500-HIT21
5	3520-20.00I	3500-HIT21
5	3523-22.00I	3500-HIT22
5	3521-22.00I	3500-HIT22
5	3520-22.00I	3500-HIT22
5	3523-24.00I	3500-HIT23
5	3521-24.00I	3500-HIT23
5	3520-24.00I	3500-HIT23

			€	D	L mm
M	26 x 1.50	3523-26.00K	397,85	1.50	39.00
M	27 x 1.50	3523-27.00K	397,85	1.50	40.50
M	27 x 2.00	3521-27.00K	397,85	1.50	40.50
M	**27 x 3.00**	3520-27.00K	397,85	1.50	40.50
M	28 x 1.50	3523-28.00K	461,01	1.50	42.00
M	30 x 1.50	3523-30.00K	482,33	1.50	45.00
M	30 x 2.00	3521-30.00K	507,60	1.50	45.00
M	**30 x 3.50**	3520-30.00K	482,33	1.50	45.00
M	33 x 2.00	3521-33.00K	503,66	1.50	49.50
M	**33 x 3.50**	3520-33.00K	503,66	1.50	49.50
M	36 x 1.50	3524-36.00K	558,94	1.50	54.00
M	36 x 2.00	3523-36.00K	558,94	1.50	54.00
M	36 x 3.00	3521-36.00K	558,94	1.50	54.00
M	**36 x 4.00**	3520-36.00K	558,94	1.50	54.00
M	39 x 3.00	3521-39.00K	563,25	1.50	58.50
M	**39 x 4.00**	3520-39.00K	572,24	1.50	58.50
M	40 x 3.00	3523-40.00K	607,94	1.50	60.00
M	42 x 3.00	3523-42.00K	629,81	1.50	63.00
M	**42 x 4.50**	3520-42.00K	629,81	1.50	63.00
M	45 x 3.00	3523-45.00K	812,23	1.50	67.50
M	**45 x 4.50**	3520-45.00K	702,39	1.50	67.50
M	48 x 3.00	3523-48.00K	799,71	1.50	72.00
M	**48 x 5.00**	3520-48.00K	842,29	1.50	72.00
M	50 x 3.00	3523-50.00K	891,84	1.50	75.00
M	52 x 3.00	3523-52.00K	934,44	1.50	78.00
M	**52 x 5.00**	3520-52.00K	934,44	1.50	78.00

Contenuto		
5	3523-26.00I	3500-HIT24
5	3523-27.00I	3500-HIT24
5	3521-27.00I	3500-HIT24
5	3520-27.00I	3500-HIT24
5	3523-28.00I	3500-HIT24
5	3523-30.00I	3500-HIT26
5	3521-30.00I	3500-HIT26
5	3520-30.00I	3500-HIT25
5	3521-33.00I	3500-HIT26
5	3520-33.00I	3500-HIT26
3	3524-36.00I	3500-HIT28
3	3523-36.00I	3500-HIT28
3	3521-36.00I	3500-HIT28
5	3520-36.00I	3500-HIT28
3	3521-39.00I	3521-39.00HIM
3	3520-39.00I	3520-39.00HIM
3	3523-40.00I	3523-40.00HIM
3	3523-42.00I	3523-42.00HIM
3	3520-42.00I	3520-42.00HIM
3	3523-45.00I	3523-45.00HIM
3	3520-45.00I	3520-45.00HIM
3	3523-48.00I	3523-48.00HIM
3	3520-48.00I	3520-48.00HIM
3	3523-50.00I	3523-50.00HIM
3	3523-52.00I	3523-52.00HIM
3	3520-52.00I	3520-52.00HIM



KIT DI INSERTI LIBERI

UNC
FREE
UNC
1.5D
AISI 304
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...K





			€	D	L mm		mm				Contenuto
UNC	Nº2 - 56	**3532-2GK**	**72,18**	1.50	3.30	20	2.40	3532-2GI	3500-HIT2	3500-TB2	
UNC	Nº3 - 48	**3532-3GK**	**69,13**	1.50	3.81	20	2.70	3532-3GI	3500-HIT3	3500-TB3	
UNC	Nº4 - 40	**3532-4GK**	**65,47**	1.50	4.32	20	3.10	3532-4GI	3500-HIT4	3500-TB4	
UNC	Nº5 - 40	**3532-5GK**	**65,47**	1.50	4.83	20	3.40	3532-5GI	3500-HIT4	3500-TB4	
UNC	Nº6 - 32	**3532-6GK**	**65,47**	1.50	5.33	20	3.80	3532-6GI	3500-HIT5	3500-TB5	
UNC	Nº8 - 32	**3532-8GK**	**65,47**	1.50	6.35	20	4.40	3532-8GI	3500-HIT6	3500-TB6	
UNC	Nº10 - 24	**3532-10GK**	**65,47**	1.50	7.11	20	5.20	3532-10GI	3500-HIT7	3500-TB8	
UNC	Nº12 - 24	**3532-12GK**	**65,47**	1.50	8.38	20	5.80	3532-12GI	3500-HIT8	3500-TB8	
UNC	1/4 - 20	**3532-1/4K**	**58,99**	1.50	9.65	20	6.70	3532-1/4I	3500-HIT9	3500-TB9	
UNC	5/16 - 18	**3532-5/16K**	**72,18**	1.50	11.94	20	8.30	3532-5/16I	3500-HIT10	3500-TB12	
UNC	3/8 - 16	**3532-3/8K**	**77,15**	1.50	14.22	15	9.90	3532-3/8I	3500-HIT13	3500-TB12	
UNC	7/16 - 14	**3532-7/16K**	**86,63**	1.50	16.76	10	11.60	3532-7/16I	3500-HIT14	3500-TB14	
UNC	1/2 - 13	**3532-1/2K**	**95,07**	1.50	19.05	10	13.00	3532-1/2I	3500-HIT15	3500-TB15	
UNC	9/16 - 12	**3532-9/16K**	**126,92**	1.50	21.34	10	–	3532-9/16I	3500-HIT16	–	
UNC	5/8 - 11	**3532-5/8K**	**126,92**	1.50	23.88	10	–	3532-5/8I	3500-HIT18	–	
UNC	3/4 - 10	**3532-3/4K**	**161,77**	1.50	28.70	5	–	3532-3/4I	3500-HIT20	–	
UNC	7/8 - 9	**3532-7/8K**	**196,60**	1.50	33.27	5	–	3532-7/8I	3500-HIT22	–	
UNC	1 - 8	**3532-1K**	**195,33**	1.50	38.10	5	–	3532-1I	3500-HIT23	–	

			€	D	L mm		mm				Contenuto
UNC	1.1/8 - 7	**3532-1.1/8K**	**393,75**	1.50	42.93	3	–	3532-1.1/8I	3500-HIT25	–	
UNC	1.1/4 - 7	**3532-1.1/4K**	**438,04**	1.50	47.75	3	–	3532-1.1/4I	3500-HIT26	–	
UNC	1.3/8 - 6	**3532-1.3/8K**	**526,62**	1.50	52.32	3	–	3532-1.3/8I	3500-HIT27	–	
UNC	1.1/2 - 6	**3532-1.1/2K**	**613,58**	1.50	57.15	3	–	3532-1.1/2I	3500-HIT28	–	

KIT DI INSERTI LIBERI







UNF

FREE

UNF

1.5D

AISI 304

HSS

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			€	D	L mm	mm		Contenuto		
UNF	Nº3 - 56	**3534-3GK**	**72,05**	1.50	3.30	20	2.70	3534-3GI	3500-HIT3	3500-TB3
UNF	Nº4 - 48	**3534-4GK**	**65,47**	1.50	3.81	20	3.00	3534-4GI	3500-HIT4	3500-TB4
UNF	Nº6 - 40	**3534-6GK**	**65,47**	1.50	4.32	20	3.80	3534-6GI	3500-HIT5	3500-TB5
UNF	Nº8 - 36	**3534-8GK**	**65,47**	1.50	4.83	20	4.40	3534-8GI	3500-HIT6	3500-TB6
UNF	Nº10 - 32	**3534-10GK**	**65,47**	1.50	5.33	20	5.10	3534-10GI	3500-HIT8	3500-TB8
UNF	Nº12 - 28	**3534-12GK**	**71,72**	1.50	6.35	20	5.60	3534-12GI	3500-HIT8	3500-TB8
UNF	1/4 - 28	**3534-1/4K**	**58,99**	1.50	7.11	20	6.70	3534-1/4I	3500-HIT9	3500-TB9
UNF	5/16 - 24	**3534-5/16K**	**72,18**	1.50	8.38	20	8.30	3534-5/16I	3500-HIT11	3500-TB12
UNF	3/8 - 24	**3534-3/8K**	**77,15**	1.50	9.65	15	9.80	3534-3/8I	3500-HIT13	3500-TB13
UNF	7/16 - 16	**3534-7/16-16K**	**104,96**	1.50	11.94	10	11.50	3534-7/16-16I	3500-HIT14	3500-TB14
UNF	7/16 - 20	**3534-7/16K**	**86,63**	1.50	14.22	10	11.50	3534-7/16I	3500-HIT14	3500-TB14
UNF	1/2 - 20	**3534-1/2K**	**95,07**	1.50	16.76	10	13.00	3534-1/2I	3500-HIT15	3500-TB15
UNF	9/16 - 18	**3534-9/16K**	**126,92**	1.50	19.05	10	–	3534-9/16I	3500-HIT16	–
UNF	5/8 - 18	**3534-5/8K**	**126,92**	1.50	21.34	10	–	3534-5/8I	3500-HIT18	–
UNF	3/4 - 16	**3534-3/4K**	**161,77**	1.50	23.88	5	–	3534-3/4I	3500-HIT21	–
UNF	7/8 - 14	**3534-7/8K**	**196,60**	1.50	28.70	5	–	3534-7/8I	3500-HIT22	–
UNF	1 - 12	**3534-1K**	**192,65**	1.50	33.27	5	–	3534-1I	3500-HIT23	–
UNF	1 - 14	**3535-1K**	**215,66**	1.50	38.10	5	–	3535-1I	3500-HIT23	–

			€	D	L mm	mm		Contenuto		
UNF	1.1/8 -12	**3534-1.1/8K**	**393,75**	1.50	42.93	3	–	3534-1.1/8I	3500-HIT25	–
UNF	1.1/4 -12	**3534-1.1/4K**	**438,04**	1.50	47.75	3	–	3534-1.1/4I	3500-HIT26	–
UNF	1.3/8 -12	**3534-1.3/8K**	**526,62**	1.50	52.32	3	–	3534-1.3/8I	3500-HIT27	–
UNF	1.1/2 -12	**3534-1.1/2K**	**613,58**	1.50	57.15	3	–	3534-1.1/2I	3500-HIT28	–

KIT DI INSERTI LIBERI

BSW
FREE
BSW
1.5D
AISI 304
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				€	D	L mm		mm			Contenuto	
BSW	1/8 - 40	**3528-1/8K**	**67,22**	1.50	4.83	20	3.40	3528-1/8I	3500-HIT4	3500-TB4
BSW	3/16 - 24	**3528-3/16K**	**65,47**	1.50	7.11	20	5.00	3528-3/16I	3500-HIT7	3500-TB8
BSW	1/4 - 20	**3528-1/4K**	**60,56**	1.50	9.65	20	6.70	3528-1/4I	3500-HIT9	3500-TB9
BSW	5/16 - 18	**3528-5/16K**	**72,18**	1.50	11.94	20	8.30	3528-5/16I	3500-HIT10	3500-TB11
BSW	3/8 - 16	**3528-3/8K**	**77,15**	1.50	14.22	15	9.90	3528-3/8I	3500-HIT11	3500-TB12
BSW	7/16 - 14	**3528-7/16K**	**86,63**	1.50	16.76	10	11.50	3528-7/16I	3500-HIT14	3500-TB14
BSW	1/2 - 12	**3528-1/2K**	**95,07**	1.50	19.05	10	13.00	3528-1/2I	3500-HIT15	3500-TB15
BSW	9/16 - 12	**3528-9/16K**	**126,92**	1.50	21.34	10	–	3528-9/16I	3500-HIT16	–
BSW	5/8 - 11	**3528-5/8K**	**126,92**	1.50	23.88	10	–	3528-5/8I	3500-HIT18	–
BSW	3/4 - 10	**3528-3/4K**	**161,77**	1.50	28.70	5	–	3528-3/4I	3500-HIT20	–
BSW	7/8 - 9	**3528-7/8K**	**196,60**	1.50	33.27	5	–	3528-7/8I	3500-HIT22	–
BSW	1 - 8	**3528-1K**	**195,33**	1.50	38.10	5	–	3528-1I	3500-HIT23	–

BSF
FREE
BSF
1.5D
AISI 304
HSS
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				€	D	L mm		mm			Contenuto	
BSF	3/16 - 32	**3530-3/16K**	**65,47**	1.50	7.11	20	5.0	3530-3/16I	3500-HIT8	3500-TB6
BSF	1/4 - 26	**3530-1/4K**	**58,99**	1.50	9.65	20	6.6	3530-1/4I	3500-HIT9	3500-TB9
BSF	5/16 - 22	**3530-5/16K**	**72,18**	1.50	11.94	20	8.3	3530-5/16I	3500-HIT11	3500-TB11
BSF	3/8 - 20	**3530-3/8K**	**77,15**	1.50	14.22	15	9.9	3530-3/8I	3500-HIT13	3500-TB12
BSF	7/16 - 18	**3530-7/16K**	**86,63**	1.50	16.76	10	11.5	3530-7/16I	3500-HIT14	3500-TB14
BSF	1/2 - 16	**3530-1/2K**	**95,07**	1.50	19.05	10	13.0	3530-1/2I	3500-HIT15	3500-TB15
BSF	9/16 - 16	**3530-9/16K**	**126,92**	1.50	21.34	10	–	3530-9/16I	3500-HIT16	–
BSF	5/8 - 14	**3530-5/8K**	**126,92**	1.50	23.88	10	–	3530-5/8I	3500-HIT18	–
BSF	3/4 - 12	**3530-3/4K**	**161,77**	1.50	28.70	5	–	3530-3/4I	3500-HIT20	–
BSF	7/8 - 11	**3530-7/8K**	**196,60**	1.50	33.27	5	–	3530-7/8I	3500-HIT22	–
BSF	1 - 10	**3530-1K**	**198,40**	1.50	38.10	5	–	3530-1I	3500-HIT23	–

KIT DI INSERTI LIBERI



BSP (GAS) · FREE · BSP · 1.5D · AISI 304 · HSS · HSS · ...K

			€	D	L mm	Contenuto		
BSP	1/8 - 28	**3546-1/8K**	**105,01**	1.50	4.83	10	3546-1/8I	3500-HIT14
BSP	1/4 - 19	**3546-1/4K**	**110,89**	1.50	9.65	10	3546-1/4I	3500-HIT16
BSP	3/8 - 19	**3546-3/8K**	**127,45**	1.50	14.22	10	3546-3/8I	3500-HIT20
BSP	1/2 - 14	**3546-1/2K**	**167,53**	1.50	19.05	10	3546-1/2I	3500-HIT23
BSP	5/8 - 14	**3546-5/8K**	**343,92**	1.50	23.88	10	3546-5/8I	3500-HIT23
BSP	3/4 - 14	**3546-3/4K**	**360,35**	1.50	28.70	10	3546-3/4I	3500-HIT24
BSP	7/8 - 14	**3546-7/8K**	**482,33**	1.50	33.27	5	3546-7/8I	3500-HIT27
BSP	1 - 11	**3546-1K**	**482,33**	1.50	38.10	5	3546-1I	3500-HIT27

NPT · FREE · NPT · 1.5D · AISI 304 · HSS · HSS · ...K

			€	D	L mm	Contenuto		
NPT	1/8 - 27	**3552-1/8K**	**255,34**	1.50	4,78	10	3552-1/8I	3500-HIT13
NPT	1/4 - 18	**3552-1/4K**	**288,63**	1.50	9,53	10	3552-1/4I	3500-HIT16
NPT	3/8 - 18	**3552-3/8K**	**366,37**	1.50	14,30	10	3552-3/8I	3500-HIT18
NPT	1/2 - 14	**3552-1/2K**	**478,93**	1.50	19,05	10	3552-1/2I	3500-HIT22
NPT	3/4 - 14	**3552-3/4K**	**585,35**	1.50	28,58	10	3552-3/4I	3500-HIT24
NPT	1 - 11.1/2	**3552-1K**	**776,90**	1.50	38,10	10	3552-1I	3500-HIT27

KIT DI INSERTI LIBERI

UNx8
FREE
8-UN
1.5D
AISI 304
HSS
HSS
...K



D			€	D	L mm				
						Contenuto			
UN	1.1/8 - 8	3570-1.1/8K	585,35	1.50	42.88	3	3570-1.1/8I	3500-HIT25
UN	1.1/4 - 8	3570-1.1/4K	713,07	1.50	47.63	3	3570-1.1/4I	3500-HIT26
UN	1.3/8 - 8	3570-1.3/8K	883,34	1.50	52.37	3	3570-1.3/8I	3500-HIT27
UN	1.1/2 - 8	3570-1.1/2K	776,90	1.50	57.15	3	3570-1.1/2I	3500-HIT28
UN	1.5/8 - 8	3570-1.5/8K	1.096,19	1.50	61.93	3	3570-1.5/8I	3500-HIT28
UN	1.3/4- 8	3570-1.3/4K	1.138,76	1.50	66.68	3	3570-1.3/4I	3500-HIT28
UN	1.7/8 - 8	3570-1.7/8K	1.287,75	1.50	71.42	3	3570-1.7/8I	3500-HIT30
UN	2 - 8	3570-2K	1.436,77	1.50	76.20	3	3570-2I	3500-HIT30





BA
FREE
BA
1.5D
AISI 304
HSS
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...K

D		€	D	L mm					
						mm	Contenuto		
BA 0	3544-0K	124,99	1.50	8.99	20	6.20	3544-0I	3500-HIT9	3500-TB11
BA 2	3544-2K	124,99	1.50	7.06	20	4.90	3544-2I	3500-HIT7	3500-TB8
BA 4	3544-4K	124,99	1.50	5.41	20	3.80	3544-4I	3500-HIT5	3500-TB5
BA 6	3544-6K	137,34	1.50	4.19	20	2.90	3544-6I	3500-HIT3	3500-TB3

KIT DI INSERTI LIBERI





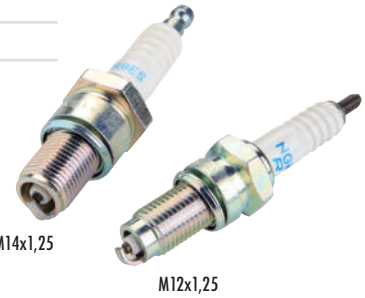


BSB
FREE
BSB
1.5D
AISI 304
HSS
HSS
...K

D		€	D	L mm	mm			Contenuto		
BSB 1/4/26	**3560-1/4K**	**152,97**	1.50	9,53	20	6.6	3560-1/4I	3500-HIT10	3500-TB9
BSB 5/16 - 26	**3560-5/16K**	**121,56**	1.50	11,91	20	8.0	3560-5/16I	3500-HIT11	3500-TB12
BSB 3/8/26	**3560-3/8K**	**131,69**	1.50	14,30	15	9.8	3560-3/8I	3500-HIT13	3500-TB13
BSB 7/16 - 26	**3560-7/16K**	**141,83**	1.50	16,66	10	11.1	3560-7/16I	3500-HIT14	3500-TB14
BSB 1/2/26	**3560-1/2K**	**151,97**	1.50	19,05	10	12.7	3560-1/2I	3500-HIT15	3500-TB15

M MF
FREE
M/MF
AISI 304
HSS
HSS
...K

D		€	D	L mm	Contenuto			
M 10 x 1.00	**3522-10.00K**	**110,95**	-	1/2"	5	3520-10.00PN	3500-HIT13	3500-TB13
			-	0.339 mm	5	–	–	–
M 12 x 1.25	**3522-12.00K**	**135,23**	-	1/2"	5	3522-12.00PN	3500-HIT15	3500-TB15
			-	3/4"	5	–	–	–
M 14 x 1.25	**3522-14.00K**	**121,25**	-	3/8"	5	3522-14.00PN	3500-HIT17	–
			-	1/2"	5	–	–	–
			-	3/4"	5	–	–	–
M 18 x 1.50	**3522-18.00K**	**219,53**	-	1/2"	5	3522-18.00PN	3500-HIT20	–
M 14 x 1.25	**3522-14.00K1**	**116,98**	8.40	-	5	3522-14.00PN	3500-HIT17	–
			12.40	-	5	–	–	–
			16.40	-	5	–	–	–



M14x1,25

M12x1,25

KIT DI INSERTI LIBERI



M MF | FREE | M/MF | 1.5D | AISI 304 | HSS | HSS | ...WK

			D	L mm	mm					
					SET M5 - M12					
	M	5 x 0.80	1.50	7.50	25	5.20	3520-5.00I	3500-HIT8	3500-TB8
	M	6 x 1.00	1.50	9.00	25	6.30	3520-6.00I	3500-HIT9	3500-TB9
	M	8 x 1.25	1.50	12.00	25	8.30	3520-8.00I	3500-HIT11	3500-TB12
3520-WK1	M	10 x 1.50	1.50	15.00	25	10.40	3520-10.00I	3500-HIT13	3500-TB13
358,47 €	M	12 x 1.75	1.50	18.00	10	12.50	3520-12.00I	3500-HIT15	3500-TB15

M MF | FREE | M/MF | 1.5D | AISI 304 | HSS | HSS | HSS | ...WK



M14x1,25

			D	L mm	mm					
					SET CANDELE		M6 - M12 + M14 X 1.25			
	M	6 x 1.00	1.50	9.00	25	6.30	3520-6.00I	-	3500-HIT9	3500-TB9
	M	8 x 1.25	1.50	12.00	25	8.30	3520-8.00I	-	3500-HIT11	3500-TB12
	M	10 x 1.50	1.50	15.00	25	10.40	3520-10.00I	-	3500-HIT13	3500-TB13
	M	12 x 1.75	1.50	18.00	10	12.50	3520-12.00I	-	3500-HIT15	3500-TB15
	M	14 x 1.25	-	8.40	5	14.25	-	3522-14.00PN	3500-HIT17	-
3522-WK4			-	12.40	5	-	-	-	-	-
413,08 €			-	16.40	5	-	-	-	-	-

KIT DI INSERTI LIBERI



UNC UNF | FREE | UNC/UNF | 1.5D | AISI 304 | HSS | 60° 4-5 HSS | ...WK

			D	L mm	mm				
					SET UNC 1/4" - 1/2"				
	UNC	1/4 - 20	1.50	9.65	25	6.70	3532-1/4I	3500-HIT9	3500-TB9
	UNC	5/16 - 18	1.50	11.94	25	8.30	3532-5/16I	3500-HIT10	3500-TB12
	UNC	3/8 - 16	1.50	14.48	25	9.90	3532-3/8I	3500-HIT13	3500-TB12
3532-WK1	UNC	7/16 - 14	1.50	16.76	10	11.60	3532-7/16I	3500-HIT14	3500-TB14
447,97 €	UNC	1/2 - 13	1.50	19.05	10	13.00	3532-1/2I	3500-HIT15	3500-TB15
					SET UNF 1/4" - 1/2"				
	UNF	1/4 - 28	1.50	9.65	25	6.70	3534-1/4I	3500-HIT9	3500-TB9
	UNF	5/16 - 24	1.50	11.94	25	8.30	3534-5/16I	3500-HIT11	3500-TB12
	UNF	3/8 - 24	1.50	14.48	25	9.80	3534-3/8I	3500-HIT13	3500-TB12
3534-WK1	UNF	7/16 - 20	1.50	16.76	10	11.50	3534-7/16I	3500-HIT14	3500-TB14
447,97 €	UNF	1/2 - 20	1.50	19.05	10	13.00	3534-1/2I	3500-HIT15	3500-TB15

BSW BSF | FREE | BSW/BSF | 1.5D | AISI 304 | HSS | 55° 4-5 HSS | ...WK

			D	L mm	mm				
					SET BSW 1/4" - 1/2"				
	BSW	1/4 - 20	1.50	9.65	25	6.70	3528-1/4I	3500-HIT9	3500-TB9
	BSW	5/16 - 18	1.50	11.94	25	8.30	3528-5/16I	3500-HIT10	3500-TB11
	BSW	3/8 - 16	1.50	14.48	25	10.00	3528-3/8I	3500-HIT11	3500-TB12
3528-WK1	BSW	7/16 - 14	1.50	16.76	10	11.60	3528-7/16I	3500-HIT14	3500-TB14
447,97 €	BSW	1/2 - 12	1.50	19.05	10	13.00	3528-1/2I	3500-HIT15	3500-TB15
					SET BSF 1/4" - 1/2"				
	BSF	1/4 - 26	1.50	9.65	25	6.60	3530-1/4I	3500-HIT9	3500-TB9
	BSF	5/16 - 22	1.50	11.94	25	8.30	3530-5/16I	3500-HIT11	3500-TB11
	BSF	3/8 - 20	1.50	14.48	25	9.80	3530-3/8I	3500-HIT13	3500-TB12
3530-WK1	BSF	7/16 - 18	1.50	16.76	10	11.60	3530-7/16I	3500-HIT14	3500-TB14
447,97 €	BSF	1/2 - 16	1.50	19.05	10	13.25	3530-1/2I	3500-HIT15	3500-TB15

ESPOSITORI DI INSERTI LIBERI

M
MF

FREE

AISI 304





330 x 360 x 515 mm

CONTENUTO DELL'ESPOSITORE			
SCATOLE			
	D		
4	M	3x0.5	3520-3.00K
4	M	4x0.7	3520-4.00K
4	M	5x0.8	3520-5.00K
3	M	6x1.0	3520-6.00K
3	M	8x1.25	3520-8.00K
3	M	10x1.5	3520-10.00K
2	M	12x1.75	3520-12.00K
2	M	14x2.0	3520-14.00K
CANDELA			
2	M	14x1.25	3522-14.00K

1-87
1.859,70 €



330 x 360 x 515 mm

CONTENUTO DELL'ESPOSITORE					
SCATOLE			BLISTERS		
	D			D	
4	M 3x0.5	3520-3.00K	5	M 4x0.7-1.5D	3520-4.00x1.5DP
4	M 4x0.7	3520-4.00K	5	M 5x0.8-1.5D	3520-5.00x1.5DP
4	M 5x0.8	3520-5.00K	5	M 6x1.0-1.5D	3520-6.00x1.5DP
4	M 6x1.0	3520-6.00K	5	M 8x1.25-1.5D	3520-8.00x1.5DP
3	M 8x1.25	3520-8.00K	5	M 10x1.50-1.5D	3521-10.00x1.5DP
3	M 10x1.5	3520-10.00K	5	M 12x1.75-1.5D	3520-12.00x1.5DP

1-88
1.431,60 €

ESPOSITORE DI INSERTI LIBERI

M
MF

FREE

AISI 304





330 x 360 x 515 mm

CONTENUTO DELL'ESPOSITORE

SCATOLE

	D	
4	M5x0.8	3520-5.00K
4	M6x1.0	3520-6.00K
3	M8x1.25	3520-8.00K

BLISTERS

	D	
5	M 3x0.5-1.5D	3520-3.00x1.5DP
5	M 4x0.7-1.5D	3520-4.00x1.5DP
5	M 5x0.8-1.5D	3520-5.00x1.5DP
5	M 6x1.0-1.0D	3520-6.00x1.0DP
5	M 6x1.0-1.5D	3520-6.00x1.5DP
3	M 8x1.25-1.0D	3520-8.00x1.0DP
5	M 8x1.25-2.0D	3520-8.00x2.0DP
5	M 10x1.5-1.5D	3520-10.00x1.5DP
5	M 10x1.5-2.0D	3521-10.00x2.0DP
5	M 12x1.75-1.5D	3520-12.00x1.5DP
3	M 16x2.0-1.5D	3520-16.00x1.5DP
	CANDELA	
5	M 14x1.25-1/2"	M14x1.25-1/2P

1-89	
1.014,07 €	

INSERTI LIBERI IN BOBINA

M MF | FREE | M/MF | AISI 304 | BS7752 DIN8140 | NASM3279 NASM3280 NASM3281 LN9039 | ...DIR



				L 1.0D		L 1.5D		L 2.0D	
D	M			L mm	€	L mm	€	L mm	€
M	2.20 x 0.45	3520-2.20	1000	2.20	433,63	3.30	439,91	4.40	474,47
M	2.50 x 0.45	3520-2.50	1000	2.50	207,70	3.75	223,10	5.00	251,38
M	3 x 0.50	3520-3.00	1000	3.00	194,83	4.50	223,10	6.00	241,94
M	4 x 0.70	3520-4.00	1000	4.00	191,68	6.00	204,24	8.00	226,23
M	5 x 0.80	3520-5.00	1000	5.00	191,68	7.50	226,55	10.00	245,57
M	6 x 1.00	3520-6.00	500	6.00	118,68	9.00	127,41	12.00	165,60
M	8 x 1.00	3521-8.00	250	8.00	89,17	12.00	95,17	16.00	120,89
M	8 x 1.25	3520-8.00	250	8.00	75,01	12.00	82,31	16.00	113,17
M	10 x 1.50	3520-10.00	250	10.00	99,78	15.00	113,17	20.00	131,19
M	12 x 1.75	3520-12.00	125	12.00	70,77	18.00	83,86	24.00	99,02



X.XD

Esempio di codifica:

	1.0D	1.5D	2.0D
M 6 x 1.00	3520-6.00x1.0DIR	3520-6.00x1.5DIR	3520-6.00x2.0DIR

UNC | FREE | UNC | AISI 304 | SBAC AS 6733 | NASM122076 – NASM122275 NASM8846 | ...DIR



				L 1.0D		L 1.5D		L 2.0D	
D	M			L mm	€	L mm	€	L mm	€
UNC	Nº2 - 56	**3532-2G**	1000	2.29	**574,14**	3.30	**672,16**	4.32	**868,19**
UNC	Nº4 - 40	**3532-4G**	1000	2.79	**210,09**	4.32	**219,26**	5.59	**224,05**
UNC	Nº5 - 40	**3532-5G**	1000	3.30	**231,05**	4.83	**245,05**	6.35	**259,07**
UNC	Nº6 - 32	**3532-6G**	1000	3.56	**208,18**	5.33	**233,15**	7.11	**249,82**
UNC	Nº8 - 32	**3532-8G**	1000	4.06	**208,18**	6.35	**233,15**	8.38	**249,82**
UNC	Nº10 - 24	**3532-10G**	1000	4.83	**224,05**	7.37	**235,20**	9.65	**245,05**
UNC	1/4 - 20	**3532-1/4**	500	6.35	**145,25**	9.65	**162,84**	12.70	**176,04**
UNC	5/16 - 18	**3532-5/16**	250	7.87	**110,03**	11.94	**132,53**	15.75	**140,03**
UNC	3/8 - 16	**3532-3/8**	250	9.65	**170,04**	14.48	**194,65**	19.30	**222,56**

UNF | FREE | UNF | AISI 304 | SBAC AS 6733 | NASM124651-124850 NASM8846 SBAC8455 | ...DIR

				L 1.0D		L 1.5D		L 2.0D	
D	M			L mm	€	L mm	€	L mm	€
UNF	Nº4 - 48	**3534-4G**	1000	2.79	**512,69**	4.32	**581,97**	5.59	**775,97**
UNF	Nº6 - 40	**3534-6G**	1000	3.56	**512,69**	5.33	**581,97**	7.11	**775,97**
UNF	Nº8 - 36	**3534-8G**	1000	4.06	**512,69**	6.35	**581,97**	8.38	**775,97**
UNF	Nº10 - 32	**3534-10G**	1000	4.83	**221,70**	7.37	**228,64**	9.65	**277,14**
UNF	1/4 - 28	**3534-1/4**	500	6.35	**143,69**	9.65	**154,57**	12.70	**174,20**
UNF	5/16 - 24	**3534-5/16**	250	7.87	**108,87**	11.94	**116,29**	15.75	**138,56**
UNF	3/8 - 24	**3534-3/8**	250	9.65	**160,84**	14.48	**168,26**	19.30	**202,90**

X.XD

Esempio di codifica:

	1.0D	1.5D	2.0D
UNC 1/4 - 20	**3532-1/4x1.0DIR**	**3532-1/4x1.5DIR**	**3532-1/4x2.0DIR**

INSERTI AUTOBLOCCANTI IN BOBINA

M MF | LOCK | M/MF | AISI 304 | NASM3329 NASM3330 NASM3331 LN9499 NASM8846 | BS7751 DIN8140 | ...DIRSL



				L 1.0D		L 1.5D		L 2.0D	
D	M			L mm	€	L mm	€	L mm	€
M	2.20 x 0.45	3520-2.20	1000	2.20	537,35	3.30	628,43	4.40	659,86
M	2.50 x 0.45	3520-2.50	1000	2.50	277,35	3.75	284,31	5.00	377,07
M	3 x 0.50	3520-3.00	1000	3.00	238,83	4.50	274,56	6.00	314,21
M	4 x 0.70	3520-4.00	1000	4.00	268,70	6.00	282,80	8.00	289,11
M	5 x 0.80	3520-5.00	1000	5.00	268,70	7.50	298,52	10.00	345,64
M	6 x 1.00	3520-6.00	500	6.00	159,38	9.00	166,34	12.00	202,31
M	8 x 1.00	3521-8.00	250	8.00	114,30	12.00	127,39	16.00	145,07
M	8 x 1.25	3520-8.00	250	8.00	95,30	12.00	113,17	16.00	132,33
M	10 x 1.50	3520-10.00	250	10.00	119,74	15.00	155,68	20.00	157,41
M	12 x 1.75	3520-12.00	125	12.00	87,98	18.00	109,68	24.00	119,60



X.XD

Esempio di codifica:		1.0D	1.5D	2.0D
	M 3 x 0.50	3520-3.00x1.0DIRSL	3520-3.00x1.5DIRSL	3520-3.00x2.0DIRSL

powercoil by celesa

INSERTI AUTOBLOCCANTI IN BOBINA

UNC | LOCK | UNC | AISI 304 | NASN21209 NASM8846 | ...DIRSL



				L 1.0D		L 1.5D		L 2.0D	
D				L mm	€	L mm	€	L mm	€
UNC	Nº2 - 56	**3532-2G**	1000	2.29	**688,97**	3.30	**806,59**	4.32	**1.041,85**
UNC	Nº4 - 40	**3532-4G**	1000	2.79	**268,85**	4.32	**282,85**	5.59	**307,11**
UNC	Nº5 - 40	**3532-5G**	1000	3.30	**310,88**	4.83	**328,05**	6.35	**339,94**
UNC	Nº6 - 32	**3532-6G**	1000	3.56	**249,82**	5.33	**279,78**	7.11	**299,79**
UNC	Nº8 - 32	**3532-8G**	1000	4.06	**249,82**	6.35	**279,78**	8.38	**299,79**
UNC	Nº10 - 24	**3532-10G**	1000	4.83	**268,85**	7.37	**278,21**	9.65	**294,07**
UNC	1/4 - 20	**3532-1/4**	500	6.35	**176,02**	9.65	**197,35**	12.70	**213,35**
UNC	5/16 - 18	**3532-5/16**	250	7.87	**135,81**	11.94	**163,59**	15.75	**172,84**
UNC	3/8 - 16	**3532-3/8**	250	9.65	**209,88**	14.48	**217,81**	19.30	**274,70**

UNF | LOCK | UNF | AISI 304 | NASN21209 NASM8846 | ...DIRSL

				L 1.0D		L 1.5D		L 2.0D	
D				L mm	€	L mm	€	L mm	€
UNF	Nº4 - 48	**3534-4G**	1000	2.79	**615,24**	4.32	**698,38**	5.59	**931,17**
UNF	Nº6 - 40	**3534-6G**	1000	3.56	**615,24**	5.33	**698,38**	7.11	**931,17**
UNF	Nº8 - 36	**3534-8G**	1000	4.06	**615,24**	6.35	**698,38**	8.38	**931,17**
UNF	Nº10 - 32	**3534-10G**	1000	4.83	**266,05**	7.37	**274,37**	9.65	**332,56**
UNF	1/4 - 28	**3534-1/4**	500	6.35	**176,15**	9.65	**188,91**	12.70	**212,60**
UNF	5/16 - 24	**3534-5/16**	250	7.87	**135,81**	11.94	**145,07**	15.75	**172,84**
UNF	3/8 - 24	**3534-3/8**	250	9.65	**200,62**	14.48	**209,88**	19.30	**253,09**

X.XD

Esempio di codifica:

	1.0D	1.5D	2.0D
UNF 1/4 - 28	3534-1/4x1.0DIRSL	3534-1/4x1.5DIRSL	3534-1/4x2.0DIRSL

M
MF
FREE
LOCK



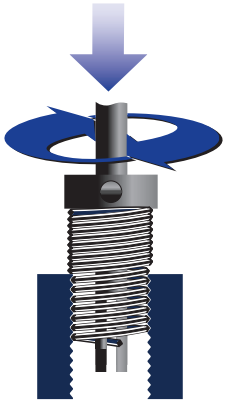





D MM		€		€		€		€		€
M 2.20 x 0.45	**3520-2.20MIP**	**453,58**	**3520-2.20MIPM**	**165,55**	**3520-2.20MIPN**	**289,15**	**3500-MIP1**	**1.778,53**	**-**	
M 2.50 x 0.45	**3520-2.50MIP**	**289,15**	**3520-2.50MIPM**	**104,33**	**3520-2.50MIPN**	**185,96**	**3500-MIP1**	**1.778,53**	**-**	
M 3 x 0.50	**3520-3.00MIP**	**289,15**	**3520-3.00MIPM**	**104,33**	**3520-3.00MIPN**	**185,96**	**3500-MIP1**	**1.778,53**	**-**	
M 3.50 x 0.60	**3520-3.50MIP**	**453,58**	**3520-3.50MIPM**	**165,55**	**3520-3.50MIPN**	**289,15**	**3500-MIP1**	**1.778,53**	**-**	
M 4 x 0.70	**3520-4.00MIP**	**289,15**	**3520-4.00MIPM**	**104,33**	**3520-4.00MIPN**	**185,96**	**3500-MIP1**	**1.778,53**	**-**	
M 5 x 0.80	**3520-5.00MIP**	**289,15**	**3520-5.00MIPM**	**104,33**	**3520-5.00MIPN**	**185,96**	**3500-MIP1**	**1.778,53**	**-**	
M 6 x 1.00	**3520-6.00MIP**	**289,15**	**3520-6.00MIPM**	**104,33**	**3520-6.00MIPN**	**185,96**	**3500-MIP1**	**1.778,53**	**-**	
M 8 x 1.00	**3521-8.00MIP**	**617,99**	**3521-8.00MIPM**	**226,79**	**3521-8.00MIPN**	**392,34**	**-**		**3500-MIP2**	**2.122,25**
M 8 x 1.25	**3520-8.00MIP**	**617,99**	**3520-8.00MIPM**	**226,79**	**3520-8.00MIPN**	**392,34**	**-**		**3500-MIP2**	**2.122,25**
M 10 x 1.00	**3523-10.00MIP**	**617,99**	**3523-10.00MIPM**	**226,79**	**3523-10.00MIPN**	**392,34**	**-**		**3500-MIP2**	**2.122,25**
M 10 x 1.25	**3521-10.00MIP**	**617,99**	**3521-10.00MIPM**	**226,79**	**3521-10.00MIPN**	**392,34**	**-**		**3500-MIP2**	**2.122,25**
M 10 x 1.50	**3520-10.00MIP**	**617,99**	**3520-10.00MIPM**	**226,79**	**3520-10.00MIPN**	**392,34**	**-**		**3500-MIP2**	**2.122,25**
M 12 x 1.25	**3523-12.00MIP**	**700,77**	**3523-12.00MIPM**	**268,75**	**3523-12.00MIPN**	**433,16**	**-**		**3500-MIP2**	**2.122,25**
M 12 x 1.50	**3521-12.00MIP**	**700,77**	**3521-12.00MIPM**	**268,75**	**3521-12.00MIPN**	**433,16**	**-**		**3500-MIP2**	**2.122,25**
M 12 x 1.75	**3520-12.00MIP**	**700,77**	**3520-12.00MIPM**	**268,75**	**3520-12.00MIPN**	**433,16**	**-**		**3500-MIP2**	**2.122,25**

UTENSILI PNEUMATICI

UNC | FREE | LOCK








		€		€		€		€		€
UNC Nº2 - 56	3532-2GMIP	426,36	3532-2GMIPM	165,55	3532-2GMIPN	261,93	3500-MIP1	1.778,53	-	-
UNC Nº4 - 40	3532-4GMIP	289,15	3532-4GMIPM	104,33	3532-4GMIPN	185,96	3500-MIP1	1.778,53	-	-
UNC Nº5 - 40	3532-5GMIP	453,58	3532-5GMIPM	165,55	3532-5GMIPN	289,15	3500-MIP1	1.778,53	-	-
UNC Nº6 - 32	3532-6GMIP	289,15	3532-6GMIPM	104,33	3532-6GMIPN	185,96	3500-MIP1	1.778,53	-	-
UNC Nº8 - 32	3532-8GMIP	289,15	3532-8GMIPM	104,33	3532-8GMIPN	185,96	3500-MIP1	1.778,53	-	-
UNC Nº10 - 24	3532-10GMIP	289,15	3532-10GMIPM	104,33	3532-10GMIPN	185,96	3500-MIP1	1.778,53	-	-
UNC Nº12 - 24	3532-12GMIP	289,15	3532-12GMIPM	104,33	3532-12GMIPN	185,96	3500-MIP1	1.778,53	-	-
UNC 1/4 - 20	3532-1/4MIP	289,15	3532-1/4MIPM	104,33	3532-1/4MIPN	185,96	3500-MIP1	1.778,53	-	-
UNC 5/16 - 18	3532-5/16MIP	617,99	3532-5/16MIPM	226,79	3532-5/16MIPN	392,34	-		3500-MIP2	2.122,25
UNC 3/8 - 16	3532-3/8MIP	617,99	3532-3/8MIPM	226,79	3532-3/8MIPN	392,34	-		3500-MIP2	2.122,25
UNC 7/16 - 14	3532-7/16MIP	700,77	3532-7/16MIPM	268,75	3532-7/16MIPN	433,16	-		3500-MIP2	2.122,25
UNC 1/2 - 13	3532-1/2MIP	700,77	3532-1/2MIPM	268,75	3532-1/2MIPN	433,16	-		3500-MIP2	2.122,25

UNF | FREE | LOCK

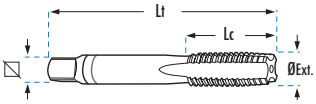
		€		€		€		€		€
UNF Nº6 - 40	3534-6GMIPM	453,58	3534-6GMIPM	165,55	3534-6GMIPN	289,15	3500-MIP1	1.778,53	-	-
UNF Nº8 - 36	3534-8GMIPM	453,58	3534-8GMIPM	165,55	3534-8GMIPN	289,15	3500-MIP1	1.778,53	-	-
UNF Nº10 - 32	3534-10GMIPM	289,15	3534-10GMIPM	104,33	3534-10GMIPN	185,96	3500-MIP1	1.778,53	-	-
UNF 1/4 - 28	3534-1/4MIPM	289,15	3534-1/4MIPM	104,33	3534-1/4MIPN	185,96	3500-MIP1	1.778,53	-	-
UNF 5/16 - 24	3534-5/16MIPM	617,99	3534-5/16MIPM	226,79	3534-5/16MIPN	392,34	-	-	3500-MIP2	2.122,25
UNF 3/8 - 24	3534-3/8MIPM	617,99	3534-3/8MIPM	226,79	3534-3/8MIPN	392,34	-	-	3500-MIP2	2.122,25
UNF 7/16 - 20	3534-7/16MIPM	700,77	3534-7/16MIPM	268,75	3534-7/16MIPN	433,16	-	-	3500-MIP2	2.122,25
UNF 1/2 - 20	3534-1/2MIPM	700,77	3534-1/2MIPM	268,75	3534-1/2MIPN	433,16	-	-	3500-MIP2	2.122,25

MASCHI A MANO E CALIBRI STI

MF

M/MF

STI-ISO529
4H5H, BS4377











TOLLERANZA				TOL 5H-6H		TOL 5H-6H		TOL 5H-6H		TOL 5H-6H	
MATERIALE				HSS		HSS-V3		HSS-V3			
FORMA					60° 4-5	FORMA B	60°	35°	60°	Calibri	
D	Ø	Ø Ext.	Lt x Lc x ⧄		€		€		€		€
M 2 x 0.40	2.10	2.52	44x9.5x2.2	**3520-2.00I**	**15,23**	**3520-2.00SP**	**20,09**	**3520-2.00SF**	**20,09**	**3520-2.00GC**	**223,97**
M 2.20 x 0.45	2.30	2.78	48x11x2.5	**3520-2.20I**	**18,08**	**3520-2.20SP**	**20,09**	**3520-2.20SF**	**20,09**	**3520-2.20GC**	**250,40**
M 2.50 x 0.45	2.60	3.08	48x11x2.5	**3520-2.50I**	**15,23**	**3520-2.50SP**	**20,09**	**3520-2.50SF**	**20,09**	**3520-2.50GC**	**250,40**
M 3 x 0.50	3.20	3.65	53x13x3.15	**3520-3.00I**	**13,28**	**3520-3.00SP**	**15,23**	**3520-3.00SF**	**15,23**	**3520-3.00GC**	**181,30**
M 3.50 x 0.60	3.70	4.27	53x13x3.55	**3520-3.50I**	**13,28**	**3520-3.50SP**	**15,23**	**3520-3.50SF**	**15,23**	**3520-3.50GC**	**175,96**
M 4 x 0.70	4.20	4.90	58x16x4	**3520-4.00I**	**13,28**	**3520-4.00SP**	**15,23**	**3520-4.00SF**	**15,23**	**3520-4.00GC**	**170,65**
M 5 x 0.80	5.20	6.03	66x19x5	**3520-5.00I**	**13,28**	**3520-5.00SP**	**15,23**	**3520-5.00SF**	**15,23**	**3520-5.00GC**	**165,32**
M 6 x 1.00	6.30	7.29	72x22x6.3	**3520-6.00I**	**13,28**	**3520-6.00SP**	**15,23**	**3520-6.00SF**	**15,23**	**3520-6.00GC**	**159,98**
M 7 x 1.00	7.30	8.29	72x22x7.1	**3520-7.00I**	**16,56**	**3520-7.00SP**	**19,09**	**3520-7.00SF**	**19,09**	**3520-7.00GC**	**183,96**
M 8 x 1.00	8.30	9.29	80x24x8	**3521-8.00I**	**16,56**	**3521-8.00SP**	**19,09**	**3521-8.00SF**	**19,09**	**3521-8.00GC**	**196,90**
M 8 x 1.25	8.30	9.62	80x24x8	**3520-8.00I**	**16,56**	**3520-8.00SP**	**19,09**	**3520-8.00SF**	**19,09**	**3520-8.00GC**	**165,32**
M 9 x 1.25	9.40	10.62	85x25x6.3	**3520-9.00I**	**20,29**	**3520-9.00SP**	**29,42**	**3520-9.00SF**	**29,42**	**3520-9.00GC**	**170,65**
M 10 x 1.00	10.30	11.29	85x25x6.3	**3523-10.00I**	**20,29**	**3523-10.00SP**	**22,96**	**3523-10.00SF**	**22,96**	**3523-10.00GC**	**223,97**
M 10 x 1.25	10.30	11.62	85x25x6.3	**3521-10.00I**	**20,29**	**3521-10.00SP**	**28,36**	**3521-10.00SF**	**28,36**	**3521-10.00GC**	**229,30**
M 10 x 1.50	10.40	11.94	89x29x7.1	**3520-10.00I**	**20,29**	**3520-10.00SP**	**22,96**	**3520-10.00SF**	**22,96**	**3520-10.00GC**	**175,96**
M 11 x 1.00	11.30	12.29	89x29x7.1	**3523-11.00I**	**27,48**	**3523-11.00SP**	**30,59**	**3523-11.00SF**	**30,59**	**3523-11.00GC**	**234,62**
M 11 x 1.25	11.30	12.62	89x29x7.1	**3521-11.00I**	**27,58**	**3521-11.00SP**	**30,59**	**3521-11.00SF**	**30,59**	**3521-11.00GC**	**228,68**
M 11 x 1.50	11.40	12.94	89x29x7.1	**3520-11.00I**	**22,96**	**3520-11.00SP**	**30,59**	**3520-11.00SF**	**30,59**	**3520-11.00GC**	**181,30**
M 12 x 1.00	12.30	13.29	95x30x9	**3524-12.00I**	**28,04**	**3524-12.00SP**	**34,88**	**3524-12.00SF**	**34,88**	**3524-12.00GC**	**238,37**
M 12 x 1.25	12.30	13.62	95x30x9	**3523-12.00I**	**28,04**	**3523-12.00SP**	**30,44**	**3523-12.00SF**	**30,44**	**3523-12.00GC**	**238,37**
M 12 x 1.50	12.40	14.13	95x30x9	**3521-12.00I**	**28,04**	**3521-12.00SP**	**34,29**	**3521-12.00SF**	**34,29**	**3521-12.00GC**	**213,29**
M 12 x 1.75	12.50	14.27	95x30x9	**3520-12.00I**	**22,96**	**3520-12.00SP**	**30,06**	**3520-12.00SF**	**30,06**	**3520-12.00GC**	**186,64**
M 13 x 1.25	13.25	14.62	95x30x9	**3521-13.00I**	**32,16**	**3521-13.00SP**	**43,46**	**3521-13.00SF**	**43,46**	**3521-13.00GC**	**229,30**
M 13 x 1.75	13.50	15.27	102x32x10	**3520-13.00I**	**32,16**	**3520-13.00SP**	**43,46**	**3520-13.00SF**	**43,46**	**3520-13.00GC**	**213,53**
M 14 x 1.00	14.25	15.29	102x32x10	**3524-14.00I**	**31,89**	**3524-14.00SP**	**53,46**	**3524-14.00SF**	**53,46**	**3524-14.00GC**	**255,97**
M 14 x 1.25	14.25	15.62	102x32x10	**3523-14.00I**	**31,89**	**3523-14.00SP**	**42,05**	**3523-14.00SF**	**42,05**	**3523-14.00GC**	**255,97**
M 14 x 1.50	14.50	15.94	102x32x10	**3521-14.00I**	**31,89**	**3521-14.00SP**	**42,05**	**3521-14.00SF**	**42,05**	**3521-14.00GC**	**234,62**
M 14 x 2.00	14.50	16.59	102x32x10	**3520-14.00I**	**31,89**	**3520-14.00SP**	**42,05**	**3520-14.00SF**	**42,05**	**3520-14.00GC**	**197,32**
M 15 x 1.50	15.25	16.94	102x32x10	**3521-15.00I**	**38,08**	**3521-15.00SP**	**59,96**	**3521-15.00SF**	**59,96**	**3521-15.00GC**	**245,31**
M 15 x 2.00	15.50	17.59	112x37x11.2	**3520-15.00I**	**38,08**	**3520-15.00SP**	**59,96**	**3520-15.00SF**	**59,96**	**3520-15.00GC**	**230,39**
M 16 x 1.50	16.50	17.94	112x37x11.2	**3521-16.00I**	**38,18**	**3521-16.00SP**	**53,08**	**3521-16.00SF**	**53,08**	**3521-16.00GC**	**250,64**
M 16 x 2.00	16.50	18.59	112x37x11.2	**3520-16.00I**	**38,18**	**3520-16.00SP**	**44,46**	**3520-16.00SF**	**44,46**	**3520-16.00GC**	**218,64**

Le dimensioni complessive dei maschi a mano e a macchina sono le stesse. Maschi disponibili con altri attacchi (2-3 he 6-8 h) o altre speciali.

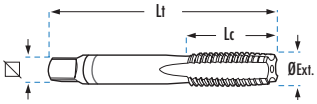
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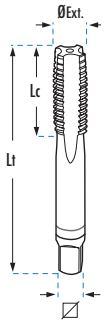




TOLLERANZA					TOL 5H-6H		TOL 5H-6H		TOL 5H-6H		TOL 5H-6H	
MATERIALE					HSS		HSS-V3		HSS-V3		Calibri	
FORMA						60° 4-5	FORMA B	60°	35°	60°		
		Ø	Ø Ext.	Lt x Lc x ⧄		€		€		€		€
M	18 x 1.50	18.50	19.94	112x37x11.2	3523-18.00I	48,33	3523-18.00SP	66,96	3523-18.00SF	66,96	3523-18.00GC	254,96
M	18 x 2.00	18.50	20.59	112x37x11.2	3521-18.00I	48,33	3521-18.00SP	66,96	3521-18.00SF	66,96	3521-18.00GC	261,28
M	**18 x 2.50**	19.00	21.24	118x38x12.5	3520-18.00I	48,33	3520-18.00SP	66,96	3520-18.00SF	66,96	3520-18.00GC	234,62
M	20 x 1.50	20.50	21.94	118x38x12.5	3523-20.00I	53,15	3523-20.00SP	78,88	3523-20.00SF	78,88	3523-20.00GC	303,98
M	20 x 2.00	20.50	22.59	118x38x12.5	3521-20.00I	53,15	3521-20.00SP	78,88	3521-20.00SF	78,88	3521-20.00GC	277,31
M	**20 x 2.50**	20.75	23.24	118x38x12.5	3520-20.00I	53,15	3520-20.00SP	78,88	3520-20.00SF	78,88	3520-20.00GC	250,64
M	22 x 1.50	22.50	23.94	130x45x14	3523-22.00I	61,14	3523-22.00SP	111,56	3523-22.00SF	111,56	3523-22.00GC	325,03
M	22 x 2.00	22.50	24.59	130x45x14	3521-22.00I	61,14	3521-22.00SP	111,56	3521-22.00SF	111,56	3521-22.00GC	314,61
M	**22 x 2.50**	22.75	25.24	130x45x14	3520-22.00I	61,14	3520-22.00SP	111,56	3520-22.00SF	111,56	3520-22.00GC	266,61
M	24 x 1.50	24.50	25.94	130x45x14	3523-24.00I	77,31	3523-24.00SP	133,88	3523-24.00SF	133,88	3523-24.00GC	346,02
M	24 x 2.00	24.50	26.59	127x37x16	3521-24.00I	77,31	3521-24.00SP	133,88	3521-24.00SF	133,88	3521-24.00GC	314,87
M	**24 x 3.00**	25.00	27.89	135x45x16	3520-24.00I	77,31	3520-24.00SP	133,88	3520-24.00SF	133,88	3520-24.00GC	298,62
M	26 x 1.50	26.50	27.94	127x37x16	3523-26.00I	145,26	-	-	-	-	-	-
M	27 x 1.50	27.50	28.97	127x37x16	3523-27.00I	171,27	-	-	-	-	-	-
M	27 x 2.00	27.50	29.59	127x37x16	3521-27.00I	171,27	-	-	-	-	-	-
M	**27 x 3.00**	28.00	30.89	151x51x18	3520-27.00I	171,27	-	-	-	-	-	-
M	28 x 1.50	28.50	29.99	137x37x18	3523-28.00I	190,92	-	-	-	-	-	-
M	30 x 1.50	30.50	31.96	137x37x18	3523-30.00I	203,73	-	-	-	-	-	-
M	30 x 2.00	30.50	32.59	137x37x18	3521-30.00I	203,73	-	-	-	-	-	-
M	**30 x 3.50**	31.00	34.54	162x57x20	3520-30.00I	203,73	-	-	-	-	-	-
M	33 x 2.00	33.50	35.59	144x39x20	3521-33.00I	247,38	-	-	-	-	-	-
M	**33 x 3.50**	34.00	37.54	170x60x22.4	3520-33.00I	247,38	-	-	-	-	-	-
M	36 x 1.50	36.50	37.92	149x39x22.4	3524-36.00I	284,42	-	-	-	-	-	-
M	36 x 2.00	36.50	38.55	149x39x22.4	3523-36.00I	284,42	-	-	-	-	-	-
M	36 x 3.00	37.00	39.89	170x60x22.4	3521-36.00I	284,42	-	-	-	-	-	-
M	**36 x 4.00**	37.00	41.19	170x60x22.4	3520-36.00I	284,42	-	-	-	-	-	-
M	39x3,00	40.00	42.90	149x39x26	3521-39.00I	392,06	-	-	-	-	-	-
M	**39x4,00**	40.25	44.20	187x67x28	3520-39.00I	392,06	-	-	-	-	-	-
M	40x3,00	41.00	43.90	149x39x26	3523-40.00I	414,77	-	-	-	-	-	-
M	42x3,00	43.00	45.90	165x45x28	3523-42.00I	426,25	-	-	-	-	-	-
M	**42x4,50**	43.50	47.90	187x67x28	3520-42.00I	426,25	-	-	-	-	-	-
M	45x3,00	46.00	48.90	175x45x31	3523-45.00I	453,84	-	-	-	-	-	-
M	**45x4,50**	46.50	50.90	200x70x31	3520-45.00I	453,84	-	-	-	-	-	-
M	48x3,00	49.00	51.90	175x45x31	3523-48.00I	551,17	-	-	-	-	-	-
M	**48x5,00**	49.50	54.50	200x70x31	3520-48.00I	551,17	-	-	-	-	-	-
M	50x3,00	51.00	53.90	175x45x31	3523-50.00I	596,35	-	-	-	-	-	-
M	52x3,00	53.00	55.90	193x48x34	3523-52.00I	630,54	-	-	-	-	-	-
M	**52x5,00**	53.50	58.50	221x76x34	3520-52.00I	630,54	-	-	-	-	-	-

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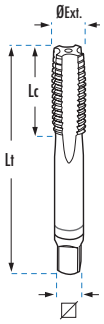
TOLLERANZA				TOL 2B-3B		TOL 2B-3B		TOL 2B-3B		TOL 2B-3B	
MATERIALE				HSS		HSS-V3		HSS-V3		Calibri	
FORMA					60° 4-5	FORMA B	60°	35°	60°		
D	Ø	Ø Ext.	Lt x Lc x ⧄		€		€		€		€
UNC Nº2 - 56	2.40	2.77	44x9.5x2.2	3532-2GI	20,29	3532-2GSP	27,70	3532-2GSF	27,70	3532-2GGC	318,54
UNC Nº3 - 48	2.70	3.02	44x9.5x2.2	3532-3GI	20,29	3532-3GSP	29,31	3532-3GSF	29,31	3532-3GGC	318,54
UNC Nº4 - 40	3.00	3.67	53x13x3.15	3532-4GI	20,29	3532-4GSP	27,70	3532-4GSF	27,70	3532-4GGC	319,95
UNC Nº5 - 40	3.40	4.00	53x13x3.15	3532-5GI	20,29	3532-5GSP	27,70	3532-5GSF	27,70	3532-5GGC	318,57
UNC Nº6 - 32	3.70	4.53	58x16x4	3532-6GI	20,29	3532-6GSP	27,70	3532-6GSF	27,70	3532-6GGC	193,90
UNC Nº8 - 32	4.40	5.19	62x17x4.5	3532-8GI	20,29	3532-8GSP	27,70	3532-8GSF	27,70	3532-8GGC	189,05
UNC Nº10 - 24	5.10	6.20	66x19x5	3532-10GI	20,29	3532-10GSP	25,39	3532-10GSF	25,39	3532-10GGC	184,20
UNC Nº12 - 24	5.70	6.86	66x19x5.6	3532-12GI	20,29	3532-12GSP	25,39	3532-12GSF	25,39	3532-12GGC	184,20
UNC 1/4 - 20	6.70	8.00	72x22x6.3	3532-1/4I	13,28	3532-1/4SP	18,48	3532-1/4SF	18,48	3532-1/4GC	174,53
UNC 5/16 - 18	8.30	9.77	80x24x8	3532-5/16I	16,47	3532-5/16SP	21,92	3532-5/16SF	21,92	3532-5/16GC	184,20
UNC 3/8 - 16	9.90	11.58	85x25x6.3	3532-3/8I	15,23	3532-3/8SP	27,70	3532-3/8SF	27,70	3532-3/8GC	184,20
UNC 7/16 - 14	11.60	13.47	95x30x9	3532-7/16I	20,29	3532-7/16SP	31,50	3532-7/16SF	31,50	3532-7/16GC	193,90
UNC 1/2 - 13	13.00	15.23	102x32x10	3532-1/2I	22,96	3532-1/2SP	34,62	3532-1/2SF	34,62	3532-1/2GC	208,45
UNC 9/16 - 12	15.00	17.03	112x37x11.2	3532-9/16I	38,18	3532-9/16SP	57,70	3532-9/16SF	57,70	3532-9/16GC	222,99
UNC 5/8 - 11	16.50	18.87	112x37x11.2	3532-5/8I	47,13	3532-5/8SP	80,42	3532-5/8SF	80,42	3532-5/8GC	232,70
UNC 3/4 - 10	20.00	22.34	118x38x12.5	3532-3/4I	57,27	3532-3/4SP	81,56	3532-3/4SF	81,56	3532-3/4GC	266,61
UNC 7/8 - 9	23.00	25.89	130x45x14	3532-7/8I	66,83	3532-7/8SP	118,27	3532-7/8SF	118,27	3532-7/8GC	300,56
UNC 1 - 8	26.25	29.52	138x48x16	3532-1I	66,83	3532-1SP	138,47	3532-1SF	138,47	3532-1GC	339,34
UNC 1.1/8 - 7	29.50	33.28	151x51x18	3532-1.1/8I	202,36	-	-	-	-	-	-
UNC 1.1/4 - 7	32.50	36.46	162x57x20	3532-1.1/4I	242,78	-	-	-	-	-	-
UNC 1.3/8 - 6	36.00	40.42	170x60x22.4	3532-1.3/8I	303,50	-	-	-	-	-	-
UNC 1.1/2 - 6	39.50	43.59	187x67x25	3532-1.1/2I	393,36	-	-	-	-	-	-

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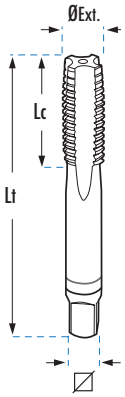




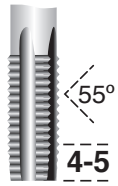
TOLLERANZA				TOL 2B-3B		TOL 2B-3B		TOL 2B-3B		TOL 2B-3B	
MATERIALE				HSS		HSS-V3		HSS-V3		Calibri	
FORMA				60° 4-5		FORMA B 60°		35° 60°			
D	Ø	Ø Ext.	Lt x Lc x ⧄		€		€		€		€
UNF Nº3 - 56	2.70	3.09	44x9.5x2.2	3534-3GI	21,23	3534-3GSP	29,31	3534-3GSF	29,31	3534-3GGC	319,95
UNF Nº4 - 48	3.00	3.53	50x13x2.80	3534-4GI	20,29	3534-4GSP	27,70	3534-4GSF	27,70	3534-4GGC	319,95
UNF Nº6 - 40	3.70	4.33	53x13x3.55	3534-6GI	20,29	3534-6GSP	27,70	3534-6GSF	27,70	3534-6GGC	193,90
UNF Nº8 - 36	4.40	5.08	62x17x4.50	3534-8GI	20,29	3534-8GSP	27,70	3534-8GSF	27,70	3534-8GGC	189,05
UNF Nº10 - 32	5.10	5.85	66x19x5.00	3534-10GI	20,29	3534-10GSP	25,39	3534-10GSF	25,39	3534-10GGC	184,20
UNF Nº12 - 28	5.80	6.75	66x19x5.60	3534-12GI	23,25	3534-12GSP	25,42	3534-12GSF	25,42	3534-12GGC	310,24
UNF 1/4 - 28	6.60	7.52	72x22x6.30	3534-1/4I	13,28	3534-1/4SP	18,48	3534-1/4SF	18,48	3534-1/4GC	174,53
UNF 5/16 - 24	8.20	9.31	80x24x8.00	3534-5/16I	14,63	3534-5/16SP	21,92	3534-5/16SF	21,92	3534-5/16GC	184,20
UNF 3/8 - 24	9.80	10.89	85x25x6.30	3534-3/8I	15,23	3534-3/8SP	27,70	3534-3/8SF	27,70	3534-3/8GC	184,20
UNF 7/16 - 20	11.50	12.76	89x29x7.10	3534-7/16I	20,29	3534-7/16SP	31,50	3534-7/16SF	31,50	3534-7/16GC	193,90
UNF 1/2 - 20	13.00	14.35	95x30x9.00	3534-1/2I	20,87	3534-1/2SP	34,62	3534-1/2SF	34,62	3534-1/2GC	208,45
UNF 9/16 - 18	14.75	16.12	102x32x10	3534-9/16I	38,18	3534-9/16SP	57,70	3534-9/16SF	57,70	3534-9/16GC	222,99
UNF 5/8 - 18	16.50	17.00	112x37x11.2	3534-5/8I	47,13	3534-5/8SP	80,42	3534-5/8SF	80,42	3534-5/8GC	227,84
UNF 3/4 - 16	19.50	21.11	112x37x11.2	3534-3/4I	57,27	3534-3/4SP	81,56	3534-3/4SF	81,56	3534-3/4GC	184,20
UNF 7/8 - 14	22.50	24.58	130x45x14	3534-7/8I	74,83	3534-7/8SP	118,27	3534-7/8SF	118,27	3534-7/8GC	276,34
UNF 1 - 12	26.00	28.15	127x37x16	3534-1I	66,45	3534-1SP	138,47	3534-1SF	138,47	3534-1GC	252,08
UNS 1 - 14	26.00	27.76	127x37x16	3535-1I	66,45	3535-1SP	138,47	3535-1SF	138,47	3535-1GC	252,08
UNF 1.1/8 - 12	29.50	31.32	137x37x18	3534-1.1/8I	202,36	-	-	-	-	-	-
UNF 1.1/4 - 12	32.50	34.50	144x39x20	3534-1.1/4I	242,78	-	-	-	-	-	-
UNF 1.3/8 - 12	35.50	37.67	149x39x22.4	3534-1.3/8I	303,50	-	-	-	-	-	-
UNF 1.1/2 - 12	38.50	40.85	149x39x22.4	3534-1.1/2I	393,36	-	-	-	-	-	-

MASCHI A MANO STI

BSW | BSW | TOL (3B) | HSS | STI-ISO529 | ...I

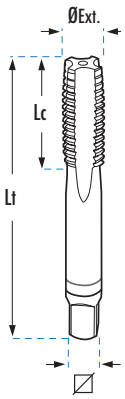




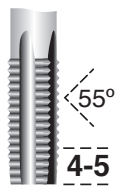


D	Ø	Ø Ext.	Lt x Lc x ⧄		€
BSW 1/8 - 40	3.40	3.93	53x13x3.15	3528-1/8I	13,28
BSW 3/16 - 24	5.00	6.00	66x19x5	3528-3/16I	13,28
BSW 1/4 - 20	6.70	7.84	72x22x6.3	3528-1/4I	13,28
BSW 5/16 - 18	8.30	9.59	80x24x8	3528-5/16I	14,63
BSW 3/8 - 16	10.00	11.38	85x25x6.3	3528-3/8I	15,23
BSW 7/16 - 14	11.60	13.23	95x30x9	3528-7/16I	20,29
BSW 1/2 - 12	13.00	15.17	102x32x10	3528-1/2I	23,53
BSW 9/16 - 12	14.75	16.76	102x32x10	3528-9/16I	38,18
BSW 5/8 - 11	16.50	18.57	112x37x11.2	3528-5/8I	47,13
BSW 11/16 - 11	17.50	19.60	112x37x11.2	3528-11/16I	57,27
BSW 3/4 - 10	20.00	22.01	118x38x12.5	3528-3/4I	57,27
BSW 7/8 - 9	23.25	25.52	130x45x14	3528-7/8I	66,45
BSW 1 - 8	26.50	29.10	138x48x16	3528-1I	66,45

BSF | BSF | TOL (3B) | HSS | STI-ISO529 | ...I



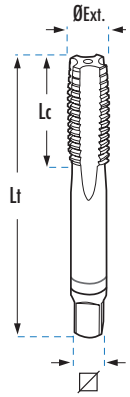




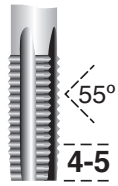
D	Ø	Ø Ext.	Lt x Lc x ⧄		€
BSF 3/16 - 32	5.00	5.70	66x19x5	3530-3/16I	13,28
BSF 1/4 - 26	6.60	7.51	72x22x6.3	3530-1/4I	13,28
BSF 5/16 - 22	8.30	9.30	80x24x8	3530-5/16I	14,63
BSF 3/8 - 20	9.80	11.02	85x25x6.3	3530-3/8I	15,23
BSF 7/16 - 18	11.60	12.77	89x29x7.1	3530-7/16I	20,29
BSF 1/2 - 16	13.25	14.56	95x30x9	3530-1/2I	23,53
BSF 9/16 - 16	14.75	16.15	102x32x10	3530-9/16I	38,18
BSF 5/8 - 14	16.50	18.01	112x37x11.2	3530-5/8I	47,13
BSF 11/16 - 14	17.50	19.60	112x37x11.2	3530-11/16I	57,27
BSF 3/4 - 12	19.50	21.53	118x38x12.5	3530-3/4I	57,27
BSF 7/8 - 11	22.75	24.93	130x45x14	3530-7/8I	66,45
BSF 1 - 10	26.25	28.37	138x48x16	3530-1I	66,45

MASCHI A MANO STI

BSP (GAS) | BSP | TOL (3B) | HSS | STI-ISO529 | ...I

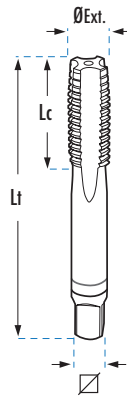




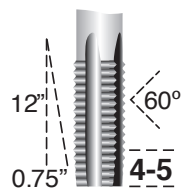


D	Ø	Ø Ext.	Lt x Lc x ⧄		€
BSP 1/8 - 28	10.00	10.81	85x25x6.3	3546-1/8I	20,13
BSP 1/4 - 19	13.75	14.73	95x30x9	3546-1/4I	22,85
BSP 3/8 - 19	17.00	18.24	112x37x11.2	3546-3/8I	30,06
BSP 1/2 - 14	21.50	23.09	118x38x12.5	3546-1/2I	48,71
BSP 5/8 - 14	23.50	25.05	130x45x14	3546-5/8I	71,58
BSP 3/4 - 14	27.00	28.58	127x37x16	3546-3/4I	71,58
BSP 1 - 11	33.75	35.96	162x57x20	3546-1I	111,84

NPT | NPT | TOL (3B) | HSS | ANSI 949 | ...I



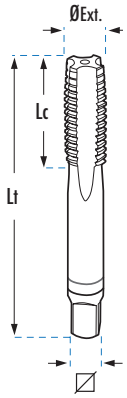




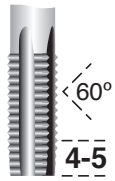
D	Ø Ext.	Lt x Lc x ⧄		€
NPT 1/8 - 27	10.43	54x19x8.3	3552-1/8I	97,64
NPT 1/4 - 18	13.95	62x27x10.7	3552-1/4I	109,84
NPT 3/8 - 18	17.37	65x27x13.5	3552-3/8I	146,45
NPT 1/2 - 14	21.65	80x35x13.1	3552-1/2I	176,98
NPT 3/4 - 14	26.96	83x35x17.2	3552-3/4I	231,89
NPT 1 - 11.1/2	33.75	95x44x22.7	3552-1I	317,30

MASCHI A MANO STI

UNx8 | 8-UN | TOL (3B) | HSS | ...I

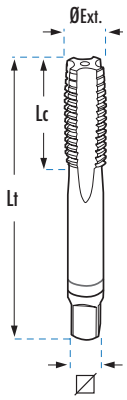




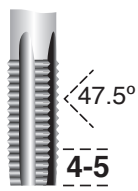


D	Ø	Ø Ext.	Lt x Lc x ⧄		€
UN 1.1/8 - 8	28.50	1.26	5.9x2.0x0.7	**3570-1.1/8I**	**347,93**
UN 1.1/4 - 8	32.00	1.38	6.3x2.2x0.7	**3570-1.1/4I**	**400,79**
UN 1.3/8 - 8	35.00	1.51	6.6x2.3x0.8	**3570-1.3/8I**	**454,85**
UN 1.1/2 - 8	38.00	1.63	6.6x2.3x0.8	**3570-1.1/2I**	**499,63**
UN 1.5/8 - 8	41.00	1.76	7.3x2.6x0.9	**3570-1.5/8I**	**584,46**
UN 1.3/4 - 8	44.50	1.88	7.3x2.6x0.9	**3570-1.3/4I**	**633,01**
UN 1.7/8 - 8	47.50	2.01	7.8x2.7x1.1	**3570-1.7/8I**	**735,90**
UN 2 - 8	51.00	2.13	7.8x2.7x1.1	**3570-2I**	**764,43**

BA | BA | TOL (3B) | HSS | ...I





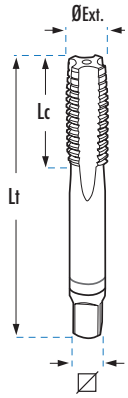


D	Ø	Ø Ext.	Lt x Lc x ⧄		€
BA 0	6.20	7.12	66x19x5.6	**3544-0I**	**13,51**
BA 2	4.90	5.60	62x17x4.5	**3544-2I**	**13,51**
BA 4	3.80	4.34	53x13x3.5	**3544-4I**	**13,51**
BA 6	2.90	3.40	50x13x2.8	**3544-6I**	**13,51**

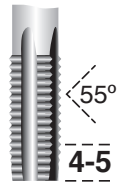
MASCHI A MANO STI

BSB

BSB | TOL (3B) | HSS | ...l





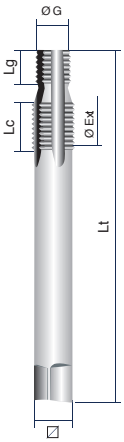


D	Ø	Ø Ext.	Lt x Lc x ⧄		€
BSB 1/4 - 26	6.60	7.72	72x22x6.3	**3560-1/4I**	**14,97**
BSB 5/16 - 26	8.00	9.30	72x22x7.1	**3560-5/16I**	**16,47**
BSB 3/8 - 26	9.80	10.89	85x25x6.3	**3560-3/8I**	**17,15**
BSB 7/16 - 26	11.10	12.48	89x29x7.1	**3560-7/16I**	**22,85**
BSB 1/2 - 26	12.70	14.07	95x30x9	**3560-1/2I**	**25,85**

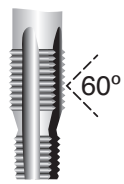


MF

MF | M/MF |  | HSS | ...l







D	Ø	Ø Ext.	Lg	Ø G	Lt x Lc x ⧄		€
M 6 x 1.00	6.30	7.29	7	6	70x28x6.3	**3520-6.00PN**	**25,83**
M 8 x 1.25	8.30	9.62	9	8	75x32x6.3	**3520-8.00PN**	**25,83**
M 10 x 1.00	10.30	11.29	8	10	74x30x6.3	**3522-10.00PN**	**32,31**
M 10 x 1.50	10.40	11.94	9	10	89x29x7.1	**3520-10.00PN**	**32,31**
M 12 x 1.25	12.30	13.62	9	12	75x32x7.1	**3522-12.00PN**	**45,90**
M 14 x 1.25	14.25	15.62	10	14	90x45x9.2	**3522-14.00PN**	**53,41**
M 18 x 1.50	18.50	19.94	10	18	116x47x12.5	**3522-18.00PN**	**76,37**

MF

M/MF






	FREE		FREE	LOCK	FREE	LOCK	FREE	LOCK
D / M		€		€		€		€
M 2 x 0.40	**3500-HIT2**	**13,28**	**3520-2.00HIP**	**128,17**	**3520-2.00MIT**	**127,25**	-	-
M 2.20 x 0.45	**3500-HIT2**	**13,28**	**3520-2.20HIP**	**128,17**	**3520-2.20MIT**	**127,25**	-	-
M 2.50 x 0.45	**3500-HIT3**	**13,28**	**3520-2.50HIP**	**128,17**	**3520-2.50MIT**	**127,25**	-	-
M 3 x 0.50	**3500-HIT4**	**13,28**	**3520-3.00HIP**	**95,55**	**3520-3.00MIT**	**117,08**	-	-
M 3.50 x 0.60	**3500-HIT5**	**13,28**	**3520-3.50HIP**	**95,55**	**3520-3.50MIT**	**117,08**	-	-
M 4 x 0.70	**3500-HIT6**	**13,28**	**3520-4.00HIP**	**95,55**	**3520-4.00MIT**	**117,08**	-	-
M 5 x 0.80	**3500-HIT8**	**13,28**	**3520-5.00HIP**	**95,55**	**3520-5.00MIT**	**117,08**	-	-
M 6 x 1.00	**3500-HIT9**	**13,28**	**3520-6.00HIP**	**99,37**	**3520-6.00MIT**	**117,08**	-	-
M 7 x 1.00	**3500-HIT10**	**15,23**	**3520-7.00HIP**	**99,37**	**3520-7.00MIT**	**117,08**	-	-
M 8 x 1.00	**3500-HIT11**	**15,23**	**3521-8.00HIP**	**95,09**	**3521-8.00MIT**	**117,08**	-	-
M 8 x 1.25	**3500-HIT11**	**15,23**	**3520-8.00HIP**	**80,88**	**3520-8.00MIT**	**117,08**	-	-
M 9 x 1.25	**3500-HIT13**	**15,23**	**3520-9.00HIP**	**80,29**	**3520-9.00MIT**	**117,07**	-	-
M 10 x 1.00	**3500-HIT13**	**15,23**	**3523-10.00HIP**	**108,60**	**3523-10.00MIT**	**127,25**	-	-
M 10 x 1.25	**3500-HIT13**	**15,23**	**3521-10.00HIP**	**118,64**	**3521-10.00MIT**	**127,25**	-	-
M 10 x 1.50	**3500-HIT13**	**15,23**	**3520-10.00HIP**	**107,76**	**3520-10.00MIT**	**127,25**	-	-
M 11 x 1.00	**3500-HIT14**	**19,09**	-	-	-	-	-	-
M 11 x 1.25	**3500-HIT14**	**19,09**	-	-	-	-	-	-
M 11 x 1.50	**3500-HIT14**	**19,09**	**3520-11.00HIP**	**120,57**	**3520-11.00MIT**	**135,75**	-	-
M 12 x 1.00	**3500-HIT15**	**19,09**	-	-	-	-	-	-
M 12 x 1.25	**3500-HIT15**	**19,09**	**3523-12.00HIP**	**112,37**	**3523-12.00MIT**	**135,75**	-	-
M 12 x 1.50	**3500-HIT15**	**19,09**	**3521-12.00HIP**	**105,46**	**3521-12.00MIT**	**135,75**	-	-
M 12 x 1.75	**3500-HIT15**	**19,09**	**3520-12.00HIP**	**103,73**	**3520-12.00MIT**	**135,75**	-	-
M 13 x 1.25	**3500-HIT16**	**22,96**	-	-	-	-	-	-
M 13 x 1.50	**3500-HIT15**	**19,09**	-	-	-	-	-	-
M 13 x 1.75	**3500-HIT15**	**19,09**	-	-	**3520-13.00MIT**	**135,73**	-	-
M 14 x 1.00	**3500-HIT16**	**22,96**	-	-	-	-	-	-
M 14 x 1.25	**3500-HIT16**	**22,96**	**3523-14.00HIP**	**218,95**	**3523-14.00MIT**	**144,21**	-	-
M 14 x 1.50	**3500-HIT16**	**22,96**	**3521-14.00HIP**	**120,52**	**3521-14.00MIT**	**144,21**	-	-
M 14 x 2.00	**3500-HIT16**	**22,96**	**3520-14.00HIP**	**92,28**	**3520-14.00MIT**	**144,21**	-	-
M 15 x 1.50	**3500-HIT16**	**22,96**	-	-	-	-	-	-
M 15 x 2.00	**3500-HIT16**	**22,96**	-	-	-	-	-	-
M 16 x 1.50	**3500-HIT18**	**25,37**	**3521-16.00HIP**	**112,37**	**3521-16.00MIT**	**144,21**	-	-
M 16 x 2.00	**3500-HIT18**	**25,37**	-	-	**3520-16.00MIT**	**144,21**	-	-
M 18 x 1.50	**3500-HIT20**	**25,37**	-	-	-	-	**3523-18.00HIP**	**210,99**
M 18 x 2.00	**3500-HIT20**	**25,37**	-	-	-	-	**3521-18.00HIP**	**210,99**
M 18 x 2.50	**3500-HIT20**	**25,37**	-	-	-	-	**3520-18.00HIP**	**101,56**

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MF

M/MF







	FREE		FREE		FREE	LOCK
D		€		€		€
M 20 x 1.50	3500-HIT21	25,37	-	-	3523-20.00HIP	262,91
M 20 x 2.00	3500-HIT21	25,37	-	-	3521-20.00HIP	262,91
M 20 x 2.50	3500-HIT21	25,37	-	-	3520-20.00HIP	119,01
M 22 x 1.50	3500-HIT22	31,89	-	-	3523-22.00HIP	321,57
M 22 x 2.00	3500-HIT22	31,89	-	-	3521-22.00HIP	321,57
M 22 x 2.50	3500-HIT22	31,89	-	-	3520-22.00HIP	125,05
M 24 x 1.50	3500-HIT23	31,89	-	-	3523-24.00HIP	375,15
M 24 x 2.00	3500-HIT23	31,89	-	-	3521-24.00HIP	375,15
M 24 x 3.00	3500-HIT23	31,89	-	-	3520-24.00HIP	132,65
M 26 x 1.50	3500-HIT24	57,26	3523-26.00HIM	31,94	-	-
M 27 x 1.50	3500-HIT24	57,26	3523-27.00HIM	31,94	-	-
M 27 x 2.00	3500-HIT24	57,26	3521-27.00HIM	31,94	-	-
M 27 x 3.00	3500-HIT24	57,26	3520-27.00HIM	31,94	-	-
M 28 x 1.50	3500-HIT24	57,26	3523-28.00HIM	31,94	-	-
M 30 x 1.50	3500-HIT26	90,15	3523-30.00HIM	38,34	-	-
M 30 x 2.00	3500-HIT26	90,15	3521-30.00HIM	38,34	-	-
M 30 x 3.50	3500-HIT25	57,26	3520-30.00HIM	38,34	-	-
M 33 x 2.00	3500-HIT26	90,15	3521-33.00HIM	44,73	-	-
M 33 x 3.50	3500-HIT26	90,15	3520-33.00HIM	44,73	-	-
M 36 x 1.50	3500-HIT28	90,30	3524-36.00HIM	44,73	-	-
M 36 x 2.00	3500-HIT28	90,30	3523-36.00HIM	44,73	-	-
M 36 x 3.00	3500-HIT28	90,30	3521-36.00HIM	44,73	-	-
M 36 x 4.00	3500-HIT28	90,30	3520-36.00HIM	44,73	-	-
M 39x3,00	3500-HIT28	90,30	3521-39.00HIM	83,48	-	-
M 39x4,00	3500-HIT28	90,30	3520-39.00HIM	83,48	-	-
M 40 x 3,00	3500-HIT28	90,30	3523-40.00HIM	83,48	-	-
M 42 x 3,00	3500-HIT28	90,30	3523-42.00HIM	97,50	-	-
M 42 x 4,50	3500-HIT28	90,30	3520-42.00HIM	97,50	-	-
M 45 x 3,00	3500-HIT30	112,28	3523-45.00HIM	97,50	-	-
M 45 x 4,50	3500-HIT30	112,28	3520-45.00HIM	97,50	-	-
M 48 x 3,00	3500-HIT30	112,28	3523-48.00HIM	103,34	-	-
M 48 x 5,00	3500-HIT30	112,28	3520-48.00HIM	103,34	-	-
M 50 x 3,00	3500-HIT30	112,28	3523-50.00HIM	117,92	-	-
M 52 x 3,00	3500-HIT30	112,28	3523-52.00HIM	117,92	-	-
M 52 x 5,00	3500-HIT30	112,28	3520-52.00HIM	117,92	-	-

UTENSILI DI INSTALLAZIONE

UNC

UNC

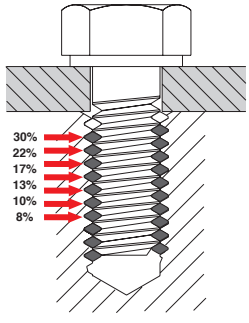






	FREE		FREE	LOCK	FREE		FREE	LOCK	FREE	LOCK
D		€		€		€		€		€
UNC Nº2 - 56	3500-HIT2	13,28	3532-2GHIP	133,64	-	-	3532-2GMIT	127,25	-	-
UNC Nº3 - 48	3500-HIT3	13,28	-	-	-	-	3532-3GMIT	127,25	-	-
UNC Nº4 - 40	3500-HIT4	13,28	3532-4GHIP	133,64	-	-	3532-4GMIT	127,25	-	-
UNC Nº5 - 40	3500-HIT4	13,28	3532-5GHIP	133,64	-	-	3532-5GMIT	127,25	-	-
UNC Nº6 - 32	3500-HIT5	13,28	3532-6GHIP	130,00	-	-	3532-6GMIT	117,08	-	-
UNC Nº8 - 32	3500-HIT6	13,28	3532-8GHIP	130,00	-	-	3532-8GMIT	117,08	-	-
UNC Nº10 - 24	3500-HIT7	13,28	3532-10GHIP	130,00	-	-	3532-10GMIT	117,08	-	-
UNC Nº12 - 24	3500-HIT8	13,28	3532-12GHIP	130,00	-	-	3532-12GMIT	117,07	-	-
UNC 1/4 - 20	3500-HIT9	13,28	3532-1/4HIP	88,37	-	-	3532-1/4MIT	117,08	-	-
UNC 5/16 - 18	3500-HIT10	15,23	3532-5/16HIP	88,43	-	-	3532-5/16MIT	117,08	-	-
UNC 3/8 - 16	3500-HIT13	15,23	3532-3/8HIP	102,67	-	-	3532-3/8MIT	127,25	-	-
UNC 7/16 - 14	3500-HIT14	19,09	3532-7/16HIP	102,67	-	-	3532-7/16MIT	127,25	-	-
UNC 1/2 - 13	3500-HIT15	19,09	3532-1/2HIP	118,70	-	-	3532-1/2MIT	135,75	-	-
UNC 9/16 - 12	3500-HIT16	22,96	-	-	-	-	-	-	3532-9/16HIP	107,30
UNC 5/8 - 11	3500-HIT18	25,37	-	-	-	-	-	-	3532-5/8HIP	112,74
UNC 3/4 - 10	3500-HIT20	25,37	-	-	-	-	-	-	3532-3/4HIP	126,80
UNC 7/8 - 9	3500-HIT22	31,89	-	-	-	-	-	-	3532-7/8HIP	136,55
UNC 1 - 8	3500-HIT23	31,89	-	-	-	-	-	-	3532-1HIP	156,06
UNC 1.1/8 - 7	3500-HIT24	57,26	-	-	3532-1.1/8HIM	38,34	-	-	3532-1.1/8HIP	178,19
UNC 1.1/4 - 7	3500-HIT25	57,26	-	-	3532-1.1/4HIM	38,34	-	-	3532-1.1/4HIP	186,67
UNC 1.3/8 - 6	3500-HIT26	90,15	-	-	3532-1.3/8HIM	44,73	-	-	3532-1.3/8HIP	189,98
UNC 1.1/2 - 6	3500-HIT27	90,30	-	-	3532-1.1/2HIM	44,73	-	-	3532-1.1/2HIP	192,62





RACCOMANDAZIONE TÉCNIC:

Installare l'inserto filetto e mezzo sotto, a filo del pezzo.



UTENSILI DI INSTALLAZIONE

UNF

UNF







	FREE		FREE	LOCK	FREE		FREE	LOCK	FREE	LOCK
D		€		€		€		€		€
UNF Nº3 - 56	3500-HIT3	13,28	3534-3GHIP	118,98	-	-	-	-	-	-
UNF Nº4 - 48	3500-HIT4	13,28	3534-4GHIP	121,40	-	-	3534-4GMIT	127,25	-	-
UNF Nº6 - 40	3500-HIT5	13,28	3534-6GHIP	106,37	-	-	3534-6GMIT	117,08	-	-
UNF Nº8 - 36	3500-HIT6	13,28	3534-8GHIP	106,37	-	-	3534-8GMIT	117,08	-	-
UNF Nº10 - 32	3500-HIT8	13,28	3534-10GHIP	106,37	-	-	3534-10GMIT	117,08	-	-
UNF Nº12 - 28	3500-HIT8	13,28	3534-12GHIP	106,37	-	-	3534-12GMIT	117,07	-	-
UNF 1/4 - 28	3500-HIT9	13,28	3534-1/4HIP	72,30	-	-	3534-1/4MIT	117,08	-	-
UNF 5/16 - 24	3500-HIT11	15,23	3534-5/16HIP	72,36	-	-	3534-5/16MIT	117,08	-	-
UNF 3/8 - 24	3500-HIT13	15,23	3534-3/8HIP	84,01	-	-	3534-3/8MIT	127,25	-	-
UNF 7/16 - 20	3500-HIT14	19,09	3534-7/16HIP	84,01	-	-	3534-7/16MIT	127,25	-	-
UNF 1/2 - 20	3500-HIT15	19,09	3534-1/2HIP	97,14	-	-	3534-1/2MIT	135,75	-	-
UNF 9/16 - 18	3500-HIT16	22,96	-	-	-	-	-	-	3534-9/16HIP	87,79
UNF 5/8 - 8	3500-HIT18	25,37	-	-	-	-	-	-	3534-5/8HIP	92,23
UNF 3/4 - 16	3500-HIT21	25,37	-	-	-	-	-	-	3534-3/4HIP	103,76
UNF 7/8 - 14	3500-HIT22	31,89	-	-	-	-	-	-	3534-7/8HIP	111,74
UNF 1-12	3500-HIT23	31,89	-	-	-	-	-	-	3534-1HIP	127,68
UNS 1-14	3500-HIT23	31,89	-	-	-	-	-	-	3535-1HIP	127,68
UNF 1.1/8 - 12	3500-HIT25	57,26	-	-	3534-1.1/8HIM	38,34	-	-	3534-1.1/8HIP	478,82
UNF 1.1/4 - 12	3500-HIT26	90,15	-	-	3534-1.1/4HIM	38,34	-	-	3534-1.1/4HIP	558,62
UNF 1.3/8 - 12	3500-HIT27	90,30	-	-	3534-1.3/8HIM	44,73	-	-	3534-1.3/8HIP	638,43
UNF 1.1/2 - 12	3500-HIT28	90,30	-	-	3534-1.1/2HIM	44,73	-	-	3534-1.1/2HIP	718,22





UTENSILI DI INSTALLAZIONE

BSW

BSW



FREE

D		€
BSW 1/8 - 40	3500-HIT4	13,28
BSW 3/16 - 24	3500-HIT7	13,28
BSW 1/4 - 20	3500-HIT9	13,28
BSW 5/16 - 18	3500-HIT10	15,23
BSW 3/8 - 16	3500-HIT11	15,23
BSW 7/16 - 14	3500-HIT14	19,09
BSW 1/2 - 12	3500-HIT15	19,09
BSW 9/16 - 12	3500-HIT16	22,96
BSW 5/8 - 11	3500-HIT18	25,37
BSW 3/4 - 10	3500-HIT20	25,37
BSW 7/8 - 9	3500-HIT22	31,89
BSW 1 - 8	3500-HIT23	31,89

BSP (GAS)

BSP





FREE

D		€
BSP 1/8 - 28	3500-HIT14	19,09
BSP 1/4 - 19	3500-HIT16	22,96
BSP 3/8 - 19	3500-HIT20	25,37
BSP 1/2 - 14	3500-HIT23	31,89
BSP 5/8 - 14	3500-HIT23	31,89
BSP 3/4 - 14	3500-HIT24	57,26
BSP 7/8 - 14	3500-HIT27	90,30
BSP 1 - 11	3500-HIT27	90,30

FREE

	€
3546-1/8HIM	19,17
3546-1/4HIM	19,17
3546-3/8HIM	22,37
3546-1/2HIM	25,58
3546-5/8HIM	31,94
3546-3/4HIM	31,94
3546-7/8HIM	44,73
3546-1HIM	44,73

BSF

BSF



FREE

D		€
BSF 3/16 - 32	3500-HIT8	13,28
BSF 1/4 - 26	3500-HIT9	13,28
BSF 5/16 - 22	3500-HIT11	15,23
BSF 3/8 - 20	3500-HIT13	15,23
BSF 7/16 - 18	3500-HIT14	19,09
BSF 1/2 - 16	3500-HIT15	19,09
BSF 9/16 - 16	3500-HIT16	22,96
BSF 5/8 - 14	3500-HIT18	25,37
BSF 3/4 - 12	3500-HIT20	25,37
BSF 7/8 - 11	3500-HIT22	31,89
BSF 1 - 10	3500-HIT23	31,89

NPT

NPT



FREE

D		€
NPT 1/8 - 27	3500-HIT13	15,23
NPT 1/4 - 18	3500-HIT16	22,96
NPT 3/8 - 18	3500-HIT18	25,37
NPT 1/2 - 14	3500-HIT22	31,89
NPT 3/4 - 14	3500-HIT24	57,26
NPT 1 - 11.1/2	3500-HIT27	90,30



UTENSILI DI INSTALLAZIONE

UNx8

8-UN





		€		€
UN 1.1/8 - 8	3500-HIT24	57,26	3570-1.1/8HIM	74,59
UN 1.1/4 - 8	3500-HIT25	57,26	3570-1.1/4HIM	74,59
UN 1.3/8 - 8	3500-HIT26	90,15	3570-1.3/8HIM	86,56
UN 1.1/2 - 8	3500-HIT27	90,30	3570-1.1/2HIM	86,56
UN 1.5/8 - 8	3500-HIT27	90,30	3570-1.5/8HIM	89,53
UN 1.3/4 - 8	3500-HIT28	90,30	3570-1.3/4HIM	95,50
UN 1.7/8 - 8	3500-HIT30	112,28	3570-1.7/8HIM	110,42
UN 2 - 8	3500-HIT30	112,28	3570-2HIM	110,42

BSB

BSB



		€
BSB 1/4 - 26	3500-HIT9	13,28
BSB 5/16 - 26	3500-HIT11	15,23
BSB 3/8 - 26	3500-HIT13	15,23
BSB 7/16 - 26	3500-HIT14	19,09
BSB 1/2 - 26	3500-HIT15	19,09



BA

BA



		€
BA 0	3500-HIT9	13,28
BA 2	3500-HIT7	13,28
BA 4	3500-HIT5	13,28
BA 6	3500-HIT3	13,28

MF



		€
10x1.00	3500-HIT13	15,23
12x1.25	3500-HIT15	19,09
14x1.25	3500-HIT17	22,96
18x1.50	3500-HIT20	25,37



M14x1,25 M12x1,25

INSTALLATORE, ROMPI CODA E ESTRATTORE

MF

M/MF







FREE LOCK

FREE LOCK

			€		€
M	2 x 0.40	3500-TB2	5,70	3500-RT1	26,07
M	2.20 x 0.45	3500-TB2	5,70	3500-RT1	26,07
M	2.50 x 0.45	3500-TB3	5,70	3500-RT1	26,07
M	3 x 0.50	3500-TB4	5,70	3500-RT2	28,15
M	3.50 x 0.60	3500-TB5	5,70	3500-RT2	28,15
M	4 x 0.70	3500-TB6	5,70	3500-RT2	28,15
M	5 x 0.80	3500-TB8	5,70	3500-RT2	28,15
M	6 x 1.00	3500-TB9	5,70	3500-RT2	28,15
M	7 x 1.00	3500-TB11	6,31	3500-RT2	28,15
M	8 x 1.00	3500-TB12	6,31	3500-RT2	28,15
M	8 x 1.25	3500-TB12	6,31	3500-RT2	28,15
M	9 x 1.25	3500-TB12	6,31	3500-RT2	28,15
M	10 x 1.00	3500-TB13	6,31	3500-RT2	28,15
M	10 x 1.25	3500-TB13	6,31	3500-RT2	28,15
M	10 x 1.50	3500-TB13	6,31	3500-RT2	28,15
M	11 x 1.00	3500-TB14	7,64	3500-RT2	28,15
M	11 x 1.25	3500-TB14	7,64	3500-RT3	34,45
M	11 x 1.50	3500-TB14	7,64	3500-RT3	34,45
M	12 x 1.00	3500-TB15	7,64	3500-RT3	34,45
M	12 x 1.25	3500-TB15	7,64	3500-RT3	34,45
M	12 x 1.50	3500-TB15	7,64	3500-RT3	34,45
M	12 x 1.75	3500-TB15	7,64	3500-RT3	34,45
M	13 x 1.25	3500-HIT16	22,96	3500-RT3	34,45
M	13 x 1.50	3500-TB15	7,64	3500-RT3	34,45
M	13 x 1.75	3500-TB15	7,64	3500-RT3	34,45
M	14 x 1.00	3500-HIT16	22,96	3500-RT3	34,45
M	14 x 1.25	3500-HIT16	22,96	3500-RT3	34,45
M	14 x 1.50	3500-HIT16	22,96	3500-RT3	34,45
M	14 x 2.00	3500-HIT16	22,96	3500-RT3	34,45

INSTALLATORE E ESTRATTORE





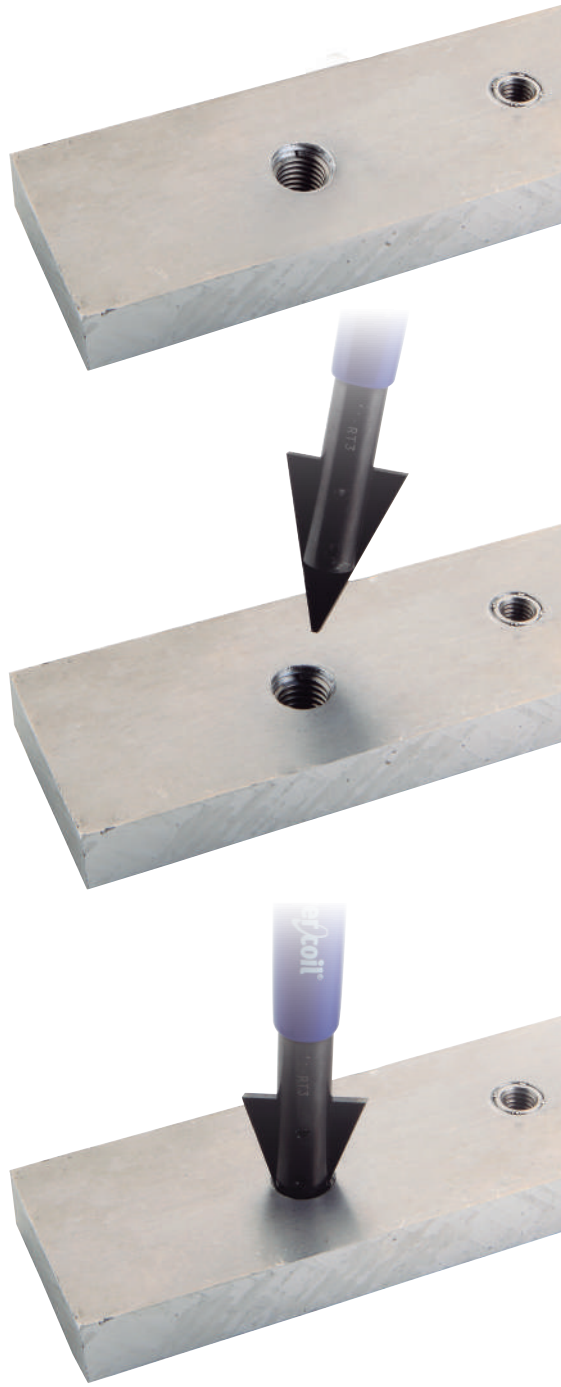
MF

M/MF

FREE LOCK

FREE LOCK

			€		€
M	15 x 1.50	3500-HIT16	22,96	3500-RT3	34,45
M	**15 x 2.00**	3500-HIT16	22,96	3500-RT3	34,45
M	16 x 1.50	3500-HIT18	25,37	3500-RT3	34,45
M	16 x 2.00	3500-HIT18	25,37	3500-RT3	34,45
M	18 x 1.50	3500-HIT20	25,37	3500-RT3	34,45
M	18 x 2.00	3500-HIT20	25,37	3500-RT3	34,45
M	**18 x 2.50**	3500-HIT20	25,37	3500-RT3	34,45
M	20 x 1.50	3500-HIT21	25,37	3500-RT3	34,45
M	20 x 2.00	3500-HIT21	25,37	3500-RT3	34,45
M	**20 x 2.50**	3500-HIT21	25,37	3500-RT3	34,45
M	22 x 1.50	3500-HIT22	31,89	3500-RT3	34,45
M	22 x 2.00	3500-HIT22	31,89	3500-RT3	34,45
M	**22 x 2.50**	3500-HIT22	31,89	3500-RT3	34,45
M	24 x 1.50	3500-HIT23	31,89	3500-RT3	34,45
M	24 x 2.00	3500-HIT23	31,89	3500-RT3	34,45
M	**24 x 3.00**	3500-HIT23	31,89	3500-RT3	34,45
M	26 x 1.50	-	-	3500-RT4	63,05
M	27 x 1.50	-	-	3500-RT4	63,05
M	27 x 2.00	-	-	3500-RT4	63,05
M	**27 x 3.00**	-	-	3500-RT4	63,05
M	28 x 1.50	-	-	3500-RT4	63,05
M	30 x 1.50	-	-	3500-RT4	63,05
M	30 x 2.00	-	-	3500-RT4	63,05
M	**30 x 3.50**	-	-	3500-RT4	63,05
M	33 x 2.00	-	-	3500-RT4	63,05
M	**33 x 3.50**	-	-	3500-RT4	63,05
M	36 x 1.50	-	-	3500-RT4	63,05
M	36 x 2.00	-	-	3500-RT4	63,05
M	36 x 3.00	-	-	3500-RT4	63,05
M	**36 x 4.00**	-	-	3500-RT4	63,05



INSTALLATORE, ROMPI CODA E ESTRATTORE

UNC

UNC







D mm	FREE	LOCK	€	FREE	LOCK	€
UNC Nº2 - 56	3500-TB2		5,70	3500-RT1		26,07
UNC Nº3 - 48	3500-TB3		5,70	3500-RT1		26,07
UNC Nº4 - 40	3500-TB4		5,70	3500-RT1		26,07
UNC Nº5 - 40	3500-TB4		5,70	3500-RT1		26,07
UNC Nº6 - 32	3500-TB5		5,70	3500-RT1		26,07
UNC Nº8 - 32	3500-TB6		5,70	3500-RT1		26,07
UNC Nº10 - 24	3500-TB8		5,70	3500-RT2		28,15
UNC Nº12 - 24	3500-TB8		5,70	3500-RT2		28,15
UNC 1/4 - 20	3500-TB9		5,70	3500-RT2		28,15
UNC 5/16 - 18	3500-TB12		6,31	3500-RT2		28,15
UNC 3/8 - 16	3500-TB12		6,31	3500-RT3		34,45
UNC 7/16 - 14	3500-TB14		7,64	3500-RT3		34,45
UNC 1/2 - 13	3500-TB15		7,64	3500-RT3		34,45
UNC 9/16 - 12	3500-HIT16		22,96	3500-RT3		34,45
UNC 5/8 - 11	3500-HIT18		25,37	3500-RT3		34,45
UNC 3/4 - 10	3500-HIT20		25,37	3500-RT3		34,45
UNC 7/8 - 9	3500-HIT22		31,89	3500-RT3		34,45
UNC 1 - 8	3500-HIT23		31,89	3500-RT3		34,45
UNC 1.1/8 - 7	-		-	3500-RT4		63,05
UNC 1.1/4 - 7	-		-	3500-RT4		63,05
UNC 1.3/8 - 6	-		-	3500-RT4		63,05
UNC 1.1/2 - 6	-		-	3500-RT4		63,05

INSTALLATORE, ROMPI CODA E ESTRATTORE





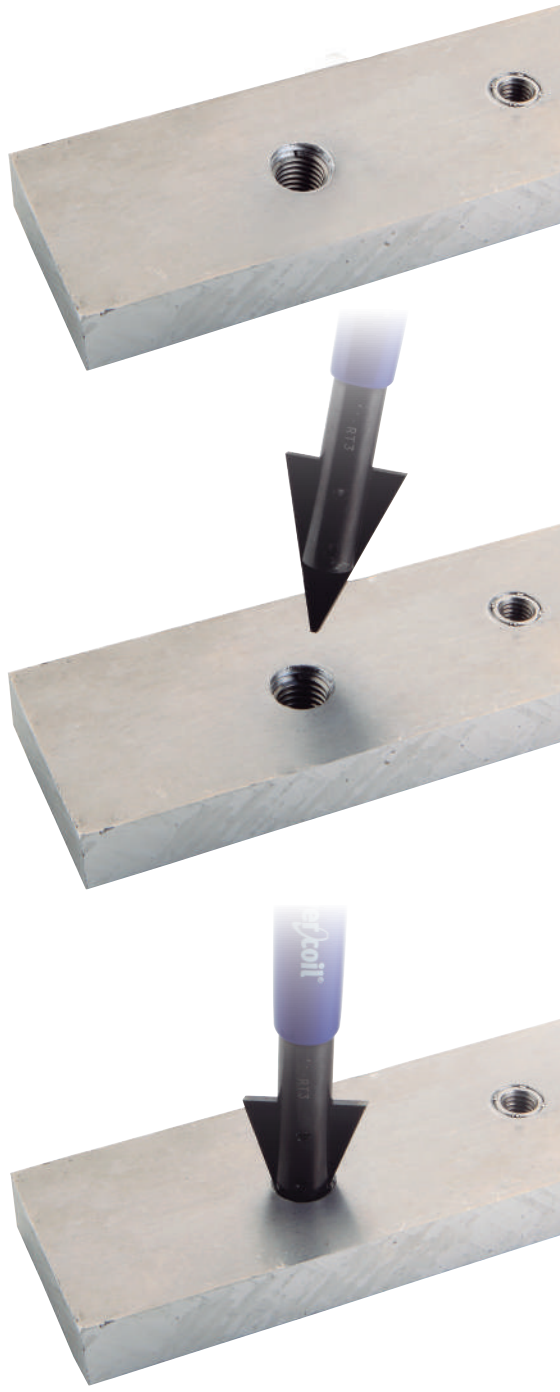
UNF



FREE LOCK

FREE LOCK

D MM		€		€
UNF Nº3 - 56	3500-TB3	5,70	3500-RT1	26,07
UNF Nº4 - 48	3500-TB4	5,70	3500-RT1	26,07
UNF Nº6 - 40	3500-TB5	5,70	3500-RT1	26,07
UNF Nº8 - 36	3500-TB6	5,70	3500-RT1	26,07
UNF Nº10 - 32	3500-TB8	5,70	3500-RT2	28,15
UNF Nº12 - 28	3500-TB8	5,70	3500-RT2	28,15
UNF 1/4 - 28	3500-TB9	5,70	3500-RT2	28,15
UNF 5/16 - 24	3500-TB12	6,31	3500-RT2	28,15
UNF 3/8 - 24	3500-TB13	6,31	3500-RT3	34,45
UNF 7/16 - 20	3500-TB14	7,64	3500-RT3	34,45
UNF 1/2 - 20	3500-TB15	7,64	3500-RT3	34,45
UNF 9/16 - 18	3500-HIT16	22,96	3500-RT3	34,45
UNF 5/8 - 18	3500-HIT18	25,37	3500-RT3	34,45
UNF 3/4 - 16	3500-HIT21	25,37	3500-RT3	34,45
UNF 7/8 - 14	3500-HIT22	31,89	3500-RT3	34,45
UNF 1 - 12	3500-HIT23	31,89	3500-RT3	34,45
UNF 1 - 14	3500-HIT23	31,89	3500-RT3	34,45
UNF 1.1/8 - 12	-	-	3500-RT4	63,05
UNF 1.1/4 - 12	-	-	3500-RT4	63,05
UNF 1.3/8 - 12	-	-	3500-RT4	63,05
UNF 1.1/2 - 12	-	-	3500-RT4	63,05



INSTALLATORI, ROMPI CODA E ESTRATTORI

BSW







D		€		€
BSW 1/8 - 40	3500-TB4	5,70	3500-RT1	26,07
BSW 3/16 - 24	3500-TB8	5,70	3500-RT2	28,15
BSW 1/4 - 20	3500-TB9	5,70	3500-RT2	28,15
BSW 5/16 - 18	3500-TB11	6,31	3500-RT2	28,15
BSW 3/8 - 16	3500-TB12	6,31	3500-RT3	34,45
BSW 7/16 - 14	3500-TB14	7,64	3500-RT3	34,45
BSW 1/2 - 12	3500-TB15	7,64	3500-RT3	34,45
BSW 9/16 - 12	3500-HIT16	22,96	3500-RT3	34,45
BSW 5/8 - 11	3500-HIT18	25,37	3500-RT3	34,45
BSW 3/4 - 10	3500-HIT20	25,37	3500-RT3	34,45
BSW 7/8 - 9	3500-HIT22	31,89	3500-RT3	34,45
BSW 1 - 8	3500-HIT23	31,89	3500-RT3	34,45

BSF







D		€		€
BSF 3/16 - 32	3500-TB6	5,70	3500-RT2	28,15
BSF 1/4 - 26	3500-TB9	5,70	3500-RT2	28,15
BSF 5/16 - 22	3500-TB11	6,31	3500-RT2	28,15
BSF 3/8 - 20	3500-TB12	6,31	3500-RT3	34,45
BSF 7/16 - 18	3500-TB14	7,64	3500-RT3	34,45
BSF 1/2 - 16	3500-TB15	7,64	3500-RT3	34,45
BSF 9/16 - 16	3500-HIT16	22,96	3500-RT3	34,45
BSF 5/8 - 14	3500-HIT18	25,37	3500-RT3	34,45
BSF 3/4 - 12	3500-HIT20	25,37	3500-RT3	34,45
BSF 7/8 - 11	3500-HIT22	31,89	3500-RT3	34,45
BSF 1 - 10	3500-HIT23	31,89	3500-RT3	34,45

BA





D		€		€
BA 0	3500-TB11	6,31	3500-RT2	28,15
BA 2	3500-TB8	5,70	3500-RT2	28,15
BA 4	3500-TB5	5,70	3500-RT1	26,07
BA 6	3500-TB3	5,70	3500-RT1	26,07

BSB





D		€		€
BSB 1/4 - 26	3500-TB9	5,70	3500-RT2	28,15
BSB 5/16 - 26	3500-TB12	6,31	3500-RT2	28,15
BSB 3/8 - 26	3500-TB13	6,31	3500-RT3	34,45
BSB 7/16 - 26	3500-TB14	7,64	3500-RT3	34,45
BSB 1/2 - 26	3500-TB15	7,64	3500-RT3	34,45

powercoil by celesa

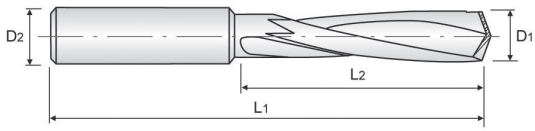
PUNTA IN METALLO DURO PER ACCIAI TEMPRATI E CORAZZATI AD ALTA RESISTENZA

Ref. BC85

70 HRc

MD | TOL D1 h7 | TOL D2 h6 | 140° | 15° "H" | TiAlN | HARDOX 600 | ALTA PRODUZIONE

Punta speciale per HARDOX 600

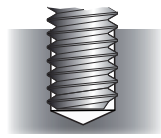




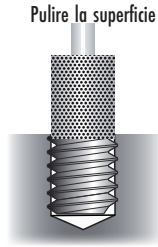
	D1 mm	D2 mm	L1 mm	L2 mm	BC85	
BC850300	3,0	3	46	16		47,17
BC850330	3,3	4	48	18	M4	54,14
BC850340	3,4	4	50	20		54,14
BC850350	3,5	4	50	20		54,14
BC850400	4,0	4	52	22		57,98
BC850420	4,2	6	65	25	M5	78,42
BC850430	4,3	6	68	28		78,42
BC850440	4,4	6	68	28		78,42
BC850450	4,5	6	68	28		78,42
BC850500	5,0	6	72	32	M6	78,42
BC850510	5,1	6	72	32		78,42
BC850520	5,2	6	72	32		78,42
BC850550	5,5	6	75	35		78,42
BC850600	6,0	6	75	35		78,42
BC850650	6,5	8	80	40		97,28
BC850680	6,8	8	85	45	M8	97,28
BC850690	6,9	8	85	45		97,28
BC850700	7,0	8	85	45		97,28
BC850750	7,5	8	85	45		97,28
BC850800	8,0	8	98	50		97,28
BC850850	8,5	10	98	50	M10	148,67
BC850860	8,6	10	105	57		148,67
BC850880	8,8	10	105	57		148,67
BC850900	9,0	10	105	57		148,67
BC850950	9,5	10	105	57		148,67
BC851000	10,0	10	111	63		148,67
BC851020	10,2	12	111	63	M12	192,57
BC851030	10,3	12	111	63		225,94
BC851050	10,5	12	111	63		225,94
BC851080	10,8	12	119	71		225,94
BC851100	11,0	12	119	71		225,94
BC851150	11,5	12	119	71		225,94
BC851200	12,0	12	119	71	M14	225,94
BC851400	14,0	14	125	77	M16	256,75

PERFORAZIONE DI VITI E MASCHI ROTTI

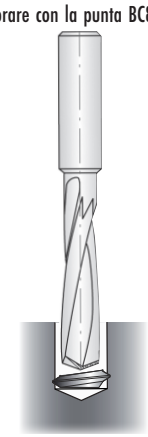
Vite rotta



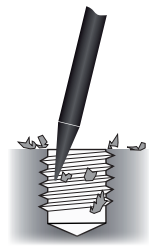
STEP 1
Pulire la superficie



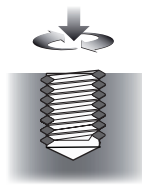
STEP 2
Forare con la punta BC85



STEP 3
Rimuovere i frammenti



STEP 4 (Opzionale)
Riparare la
filettatura con inserti
powercoil by celesa



HRc	50-55		55-60		60-70	
VC	14-22 m/min		10-16 m/min		8-13 m/min	
Ø	(R.P.M.)	(mm/min)	(R.P.M.)	(mm/min)	(R.P.M.)	(mm/min)
3	1900	0.04	1330	0.04	1000	0.04
4	1430	0.04	1000	0.04	750	0.04
5	1150	0.04	800	0.04	600	0.04
6	960	0.04	670	0.04	500	0.04
8	720	0.04	500	0.04	370	0.04
10	570	0.04	400	0.04	300	0.04
12	480	0.04	330	0.04	250	0.04
14	438	0.04	282	0.04	210	0.04

PUNTA ELICOIDALE CILINDRICA

HSSCo 5%

DIN 338







GOLD





	Ø mm.	ø "	L1 x L2 mm	€
3520-0210	2.10	-	49x24	2,80
3520-0230	2.30	3/32	53x27	2,80
3520-0240	2.40	-	57x30	2,80
3520-0260	2.60	-	57x30	2,69
3520-0270	2.70	-	61x33	2,69
3520-0290	2.90	-	61x33	2,69
3520-0300	3.00	-	61x33	2,14
3520-0320	3.20	1/8	65x36	2,58
3520-0340	3.40	-	70x39	2,69
3520-0370	3.70	-	70x39	3,24
3520-0380	3.80	-	75x43	3,24
3520-0420	4.20	-	75x43	3,06
3520-0430	4.30	-	80x47	3,24
3520-0440	4.40	11/64	80x47	3,24
3520-0480	4.80	-	86x52	3,60
3520-0490	4.90	-	86x52	3,60
3520-0500	5.00	-	86x52	3,28
3520-0510	5.10	-	86x52	3,94
3520-0520	5.20	13/64	86x52	3,94
3520-0550	5.50	7/32	93x57	4,16
3520-0570	5.70	15/64	93x57	4,92
3520-0620	6.20	-	101x63	5,48
3520-0630	6.30	1/4	101x63	5,48
3520-0660	6.60	-	101x63	6,58
3520-0670	6.70	17/64	101x63	6,58
3520-0690	6.90	-	109x69	6,58
3520-0730	7.30	9/32	109x69	8,38
3520-0760	7.60	-	117x75	10,08
3520-0800	8.00	5/16	117x75	7,25
3520-0820	8.20	-	117x75	9,67
3520-0830	8.30	21/64	117x75	9,67

	Ø mm.	ø "	L1 x L2 mm	€
3520-0840	8.40	-	117x75	9,67
3520-0880	8.80	-	125x81	12,29
3520-0930	9.30	23/64	125x81	13,61
3520-0940	9.40	3/8	125x81	13,57
3520-0980	9.80	-	133x87	15,95
3520-0990	9.90	25/64	133x87	15,95
3520-1000	10.00	-	133x87	10,96
3520-1010	10.10	-	133x87	18,34
3520-1030	10.30	13/32	133x87	18,38
3520-1040	10.40	-	133x87	18,34
3520-1080	10.80	-	142x94	21,33
3520-1110	11.10	7/16	142x94	24,33
3520-1130	11.30	-	142x94	24,33
3520-1140	11.40	-	142x94	24,33
3520-1150	11.50	29/64	142x94	20,48
3520-1160	11.60	-	142x94	25,14
3520-1230	12.30	-	151x101	29,18
3520-1240	12.40	31/64	151x101	29,18
3520-1250	12.50	-	151x101	26,65
3520-1270	12.70	1/2	151x101	30,37
3520-1280	12.80	-	151x101	30,37
3520-1300	13.00	33/64	151x101	27,24
3520-1325	13.25	-	160x108	37,71
3520-1350	13.50	-	160x108	30,03
3520-1375	13.75	-	160x108	37,71
3520-1425	14.25	9/16	169x114	49,55
3520-1450	14.50	-	169x114	42,12
3520-1475	14.75	-	169x114	49,55
3520-1500	15.00	19/32	169x114	42,75
3520-1525	15.25	-	178x120	68,36

powercoil by celesa

PUNTA ELICOIDALE A CODOLO RIDOTTO

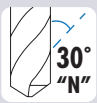
HSSCo 5%

DIN 338









GOLD



	Ø mm.	Ø "	L1 x L2 mm	€
3520-1550	15.50	39/64	178x120	63,88
3520-1650	16.50	-	184x125	75,04
3520-1675	16.75	-	184x125	100,58
3520-1700	17.00	-	184x125	75,53
3520-1750	17.50	-	191x130	83,13
3520-1850	18.50	23/32	198x135	101,65
3520-1875	18.75	-	198x135	127,45
3520-1900	19.00	3/4	198x135	100,77
3520-1950	19.50	49/64	205x140	111,65
3520-2000	20.00	-	205x240	119,63
3520-2050	20.50	13/16	205x140	142,41



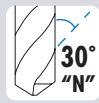
PUNTA ELICOIDALE A CODOLO CONICO

HSS

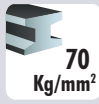
DIN 345







OX

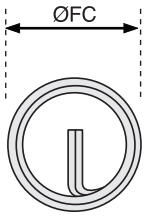


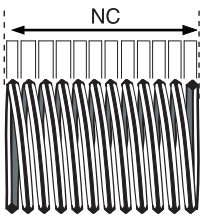
	Ø mm.	Ø "	L1 x L2 mm	€
3520-2075	20.75	-	243x145	77,14
3520-2100	21.00	-	243x145	73,72
3520-2150	21.50	27/32	248x150	73,72
3520-2250	22.50	57/64	253x155	80,82
3520-2275	22.75	-	253x155	93,17
3520-2300	23.00	29/32	253x155	80,64
3520-2325	23.25	-	276x155	102,72
3520-2350	23.50	-	276x155	89,49
3520-2450	24.50	31/32	281x160	97,46
3520-2500	25.00	-	281x160	97,06
3520-2575	25.75	1.1/64	286x165	121,91
3520-2600	26.00	-	286x165	105,62
3520-2625	26.25	-	286x165	132,02
3520-2650	26.50	-	286x165	114,33
3520-2700	27.00	1.1/16	291x170	114,44
3520-2750	27.50	1.5/64	291x170	122,42
3520-2800	28.00	1.3/32	291x170	122,79
3520-2850	28.50	1.1/8	296x175	131,24
3520-2950	29.50	1.5/32	296x175	144,50
3520-3000	30.00	1.11/64	296x175	144,62
3520-3050	30.50	1.3/16	301x180	161,34
3520-3100	31.00	1.7/32	301x180	161,48
3520-3200	32.00	1.1/4	334x185	170,12
3520-3250	32.50	1.9/32	334x185	195,41
3520-3300	33.00	1.19/64	334x185	194,23
3520-3325	33.25	-	334x185	239,58
3520-3350	33.50	1.5/16	334x185	211,90
3520-3375	33.75	-	339x190	240,86
3520-3400	34.00	1.21/64	339x190	211,24
3520-3500	35.00	1.3/8	339x190	231,86
3520-3550	35.50	1.13/32	339x190	247,52
3520-3600	36.00	-	344x195	248,14
3520-3650	36.50	-	344x195	262,44
3520-3700	37.00	1.29/64	344x195	262,07
3520-3800	38.00	1.1/2	349x200	275,26
3520-3850	38.50	-	349x200	292,90
3520-3900	39.00	1.17/32	349x200	293,16
3520-3950	39.50	1.35/64	349x200	310,46
3520-3975	39.75	-	349x200	344,90
3520-4000	40.00	1.9/16	349x200	310,07
3520-4100	41.00	1.5/8	354x205	325,43
3520-4250	42.50	1.43/64	354x205	362,76
3520-4300	43.00	1.11/16	359x210	362,80
3520-4450	44.50	1.3/8	359x210	397,50
3520-4600	46.00	-	364x215	411,61
3520-4750	47.50	1.7/8	364x215	444,64
3520-4850	48.50	1.29/32	369x220	462,28
3520-5100	51.00	2	412x225	562,76



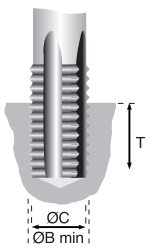
INFORMAZIONE TECNICA PER INSERTI LIBERI

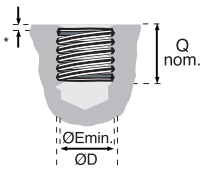
M/MF	
A	Ø di foratura o interiore di prefilettatura.
B	Ø maggiore di prefilettatura (Minimo).
C	Ø dei fianchi della prefilettatura.
D	Ø dei fianchi dell'inserto installati.
E	Ø interno dell'inserto installato (Minimo).
FC	Ø esterno dell'inserto allo stato libero.
S	Profondità di foratura (Minima).
T	Profondità "utile" di filettatura (Minima).
Q	Filettatura "utile" dell'inserto.
NC	Numero di filetti.











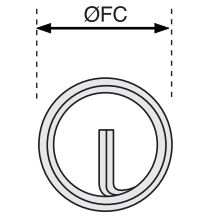
MISURA M/MF	Punta mm	Punta "	A max/min mm	FC min/max mm	NC max/min 1.0D	1.5D	2.0D	2.5D	3.0D
M2 X 0.40	2.10	#45	2.177/2.087	2.49/2.70	3.30/3.00	5.70/5.20	8.10/7.40	10.50/9.60	13.00/11.80
M2.2 X 0.45	2.30	3/32	2.397/2.297	2.76/3.00	3.20/2.90	5.50/5.00	7.90/7.10	10.30/9.30	12.60/11.40
M2.5 X 0.45	2.60	#37	2.697/2.597	3.05/3.70	3.80/3.10	6.50/5.20	9.20/7.40	11.90/9.50	14.60/11.70
M3 X 0.50	3.20	1/8	3.220/3.108	3.61/4.35	4.30/3.40	7.20/5.80	10.10/8.20	13.10/10.50	16.00/12.90
M3.5 X 0.60	3.70	#27	3.755/3.630	4.24/4.95	4.10/3.40	7.00/5.80	9.80/8.20	12.60/10.50	15.50/12.90
M4 x 0.70	4.20	-	4.292/4.152	4.86/5.60	4.00/3.40	6.80/5.70	9.60/8.10	12.30/10.50	15.10/12.80
M5 X 0.80	5.20	13/64	5.333/5.173	5.98/6.80	4.50/3.90	7.60/6.50	10.60/9.20	13.70/11.80	16.70/14.40
M6 X 1.00	6.30	1/4	6.406/6.216	7.23/7.95	4.30/3.80	7.20/6.40	10.10/9.10	13.10/11.70	16.00/14.30
M7 X 1.00	7.30	9/32	7.406/7.216	8.22/9.20	5.30/4.60	8.70/7.70	12.10/10.70	15.60/13.70	19.00/16.70
M8 X 1.25	8.30	21/64	8.483/8.271	9.53/10.35	4.70/4.20	7.80/7.10	10.90/9.90	14.10/12.80	17.20/15.60
M8 X 1.00	8.30	21/64	8.406/8.216	9.39/10.25	6.10/5.60	10.00/9.10	13.80/12.50	17.70/16.00	21.50/19.50
M9 X 1.25	9.40	3/8	9.483/9.271	10.52/11.16	5.50/5.10	9.00/8.40	12.50/11.70	16.10/15.00	19.60/18.30
M9 x 1.00	9.30	23/64	9.406/9.216	10.40/11.23	7.10/6.50	11.50/10.50	15.80/14.50	20.20/18.50	24.50/22.50
M10 X 1.50	10.40	-	10.561/10.325	11.83/12.50	4.90/4.60	8.20/7.70	11.50/10.80	14.70/13.80	18.00/16.90
M10 X 1.25	10.30	13/32	10.483/10.271	11.74/12.65	6.10/5.60	10.00/9.20	13.80/12.70	17.70/16.30	21.50/19.80
M10 x 1.00	10.30	13/32	10.406/10.216	11.41/12.50	8.10/7.30	12.90/11.70	17.80/16.10	22.60/20.50	27.50/24.90
M11 X 1.50	11.40	-	11.561/11.325	12.82/13.59	5.60/5.20	9.20/8.60	12.80/12.00	16.40/15.40	20.00/18.70
M11 X 1.25	11.30	-	11.483/11.271	12.75/13.76	6.90/6.40	11.20/10.30	15.40/14.20	19.70/18.10	23.90/22.00
M11 X 1.00	11.30	-	11.406/11.216	12.42/13.41	9.10/8.40	14.40/13.30	19.80/18.20	25.10/23.10	30.40/28.00
M12 X 1.75	12.50	-	12.644/12.379	14.13/15.00	5.10/4.80	8.50/7.90	11.90/11.10	15.20/14.20	18.60/17.30
M12 X 1.50	12.40	31/64	12.561/12.325	14.09/15.20	6.10/5.60	10.00/9.20	13.80/12.70	17.70/16.20	21.50/19.80
M12 X 1.25	12.30	-	12.483/12.271	13.76/15.00	7.70/7.00	12.40/11.20	17.00/15.50	21.60/19.70	26.30/23.90
M12 X 1.00	12.30	-	12.406/12.216	13.43/14.49	10.10/9.30	15.90/14.70	21.70/20.00	27.60/25.40	33.40/30.80
M13 X 1.75	13.50	-	13.644/13.379	15.12/16.04	5.70/5.30	9.40/8.70	13.00/12.20	16.70/15.60	20.30/19.00
M13 X 1.50	13.25	-	13.561/13.325	15.10/16.29	6.80/6.20	11.00/10.10	15.20/13.90	19.30/17.80	23.50/21.60
M13 X 1.25	13.25	-	13.483/13.271	14.77/15.94	8.50/7.80	13.50/12.50	18.60/17.10	23.60/21.70	28.70/26.40
M14 X 2.00	14.50	-	14.733/14.433	16.43/17.35	5.30/5.00	8.70/8.20	12.10/11.40	15.60/14.60	19.00/17.90
M14 X 1.50	14.50	-	14.561/14.325	16.11/17.25	7.50/6.90	12.00/11.10	16.50/15.30	21.00/19.40	25.50/23.60
M14 X 1.25	14.25	9/16	14.483/14.271	15.78/17.03	9.30/8.60	14.70/13.60	20.20/18.60	25.60/23.60	31.00/28.60
M14 X 1.00	14.25	9/16	14.406/14.216	15.45/16.68	12.10/11.10	18.90/17.40	25.70/23.70	32.50/30.00	39.30/36.20
M15 X 2.00	15.50	39/64	15.733/15.433	17.42/18.48	5.80/5.40	9.50/8.80	13.10/12.30	16.80/15.70	20.50/19.20
M15 X 1.50	15.25	-	15.561/15.325	17.12/18.47	8.10/7.50	12.90/11.90	17.80/16.40	22.60/20.80	27.50/25.30
M16 X 2.00	16.50	-	16.733/16.433	18.41/19.60	6.30/5.90	10.20/9.50	14.20/13.20	18.10/16.90	22.00/20.50
M16 X 1.50	16.50	-	16.561/16.325	18.13/19.60	8.80/8.00	13.90/12.80	19.10/17.50	24.30/22.30	29.40/27.00
M18 X 2.50	19.00	3/4	18.896/18.541	21.04/22.00	5.50/5.20	9.00/8.60	12.50/11.90	16.10/15.30	19.60/18.60
M18 X 2.00	18.50	23/32	18.733/18.433	20.80/21.85	7.10/6.70	11.50/10.90	15.80/15.00	20.20/19.10	24.50/23.20
M18 X 1.50	18.50	23/32	18.561/18.325	20.15/21.75	10.10/9.30	15.90/14.60	21.70/20.00	27.60/25.40	33.40/30.70
M20 X 2.50	20.75	-	20.896/20.541	23.02/24.40	6.30/5.90	10.20/9.60	14.20/13.30	18.10/16.90	22.00/20.60
M20 X 2.00	20.50	13/16	20.733/20.433	22.82/24.05	8.10/7.70	12.90/12.20	17.80/16.80	22.60/21.40	27.50/25.90
M20 X 1.50	20.50	13/16	20.561/20.325	22.17/24.00	11.40/10.50	17.90/16.40	24.40/22.40	30.90/28.30	37.40/34.30
M22 X 2.50	22.75	-	22.896/22.541	25.00/26.90	7.10/6.50	11.40/10.50	15.80/14.50	20.10/18.50	24.50/22.50
M22 X 2.00	22.50	57/64	22.733/22.433	24.84/26.50	9.10/8.50	14.40/13.40	19.80/18.40	25.10/23.40	30.40/28.40
M22 X 1.50	22.50	57/64	22.561/22.325	24.19/26.45	12.70/11.60	19.90/18.10	27.00/24.60	34.20/31.10	41.30/37.60
M24 X 3.00	25.00	-	25.050/24.650	27.62/29.00	6.30/5.90	10.20/9.70	14.20/13.40	18.10/17.10	22.00/20.90
M24 X 2.00	24.50	31/32	24.733/24.433	26.86/29.10	10.10/9.20	15.90/14.60	21.70/19.90	27.60/25.30	33.40/30.60
M24 X 1.50	24.50	31/32	24.561/24.325	26.21/28.28	14.00/12.90	21.80/20.10	29.70/27.30	37.50/34.50	45.30/41.70
M26 X 1.50	26.50	-	26.561/26.325	28.23/30.46	15.40/14.20	23.80/22.00	32.30/29.80	40.80/37.60	49.20/45.40
M27 X 3.00	28.00	1.3/32	28.050/27.650	30.59/32.40	7.30/6.80	11.70/11.00	16.20/15.20	20.60/19.30	25.10/23.50
M27 X 2.00	27.50	1.5/64	27.733/27.433	29.89/32.30	11.60/10.60	18.10/16.70	24.70/22.70	31.30/28.80	37.90/34.80
M30 X 3.50	31.00	1.7/32	31.208/30.758	34.20/35.81	6.90/6.50	11.10/10.50	15.30/14.50	19.50/18.60	23.80/22.60
M30 X 3.00	31.00	1.7/32	31.050/30.650	34.24/36.10	8.10/7.60	12.90/12.20	17.80/16.80	22.60/21.30	27.50/25.90
M30 X 2.00	30.50	1.3/16	30.733/30.433	32.92/35.70	13.00/12.00	20.40/18.70	27.70/25.40	35.00/32.10	42.30/38.80
M33 X 3.50	34.00	1.21/64	34.208/33.758	37.17/38.80	7.70/7.40	12.40/11.80	17.00/16.20	21.70/20.70	26.40/25.10
M33 X 3.00	33.50	1.5/16	34.050/33.650	37.27/39.50	9.10/8.50	14.40/13.50	19.80/18.50	25.10/23.60	30.40/28.60
M33 X 2.00	33.50	1.5/16	33.733/33.433	35.95/39.20	14.50/13.30	22.60/20.60	30.60/28.00	38.70/35.30	46.80/42.70
M36 X 4.00	37.00	1.29/64	37.341/36.866	40.78/42.67	7.30/6.90	11.70/11.20	16.20/15.40	20.60/19.60	25.10/23.80
M36 X 3.00	37.00	1.29/64	37.050/36.650	40.30/42.70	10.10/9.50	15.90/14.90	21.70/20.40	27.60/25.90	33.40/31.40
M39 X 4.00	40.00	1.9/16	40.341/39.866	43.75/45.75	8.00/7.70	12.90/12.20	17.70/16.80	22.50/21.40	27.30/26.00
M42 X 4.50	43.00	1.11/16	43.505/42.975	47.37/49.00	7.60/7.30	12.20/11.80	16.80/16.20	21.50/20.70	26.10/25.10
M42 X 3.00	42.50	1.43/64	43.050/42.650	46.36/49.00	12.10/11.40	18.90/17.80	25.70/24.20	32.50/30.60	39.30/37.10

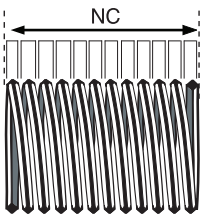
INFORMAZIONE TECNICA PER INSERTI LIBERI

B	C (5H)	D (4H)	C (6H)	D (5H)	E	S					T					Q				
mm	mm	mm	mm	mm	mm	1.0D	1.5D	2.0D	2.5D	3.0D	1.0D	1.5D	2.0D	2.5D	3.0D	1.0D	1.5D	2.0D	2.5D	3.0D
2.520	2.296/2.260	1.796/1.740	2.311/2.260	1.811/1.740	1.567	3.80	4.80	5.80	6.80	7.80	3.40	4.40	5.40	6.40	7.40	2.00	3.00	4.00	5.00	6.00
2.785	2.532/2.492	1.968/1.908	2.547/2.492	1.983/1.908	1.713	4.23	5.33	6.43	7.53	8.63	3.78	4.88	5.98	7.08	8.18	2.20	3.30	4.40	5.50	6.60
3.085	2.832/2.792	2.268/2.208	2.847/2.792	2.283/2.208	2.013	4.53	5.78	7.03	8.28	9.53	4.08	5.33	6.58	7.83	9.08	2.50	3.75	5.00	6.25	7.50
3.650	3.367/3.325	2.738/2.675	3.384/3.325	2.755/2.675	2.459	5.25	6.75	8.25	9.75	11.25	4.75	6.25	7.75	9.25	10.75	3.00	4.50	6.00	7.50	9.00
4.279	3.940/3.890	3.181/3.110	3.959/3.890	3.200/3.110	2.850	6.20	7.95	9.70	11.45	13.20	5.60	7.35	9.10	10.85	12.60	3.50	5.25	7.00	8.75	10.50
4.909	4.509/4.455	3.620/3.545	4.529/4.455	3.640/3.545	3.242	7.15	9.15	11.15	13.15	15.15	6.45	8.45	10.45	12.45	14.45	4.00	6.00	8.00	10.00	12.00
6.039	5.577/5.520	4.560/4.480	5.597/5.520	4.580/4.480	4.134	8.60	11.10	13.60	16.10	18.60	7.80	10.30	12.80	15.30	17.80	5.00	7.50	10.00	12.50	15.00
7.299	6.719/6.650	5.445/5.350	6.742/6.650	5.468/5.350	4.917	10.50	13.50	16.50	19.50	22.50	9.50	12.50	15.50	18.50	21.50	6.00	9.00	12.00	15.00	18.00
8.299	7.719/7.650	6.445/6.350	7.742/7.650	6.468/6.350	5.917	11.50	15.00	18.50	22.00	25.50	10.50	14.00	17.50	21.00	24.50	7.00	10.50	14.00	17.50	21.00
9.624	8.886/8.812	7.288/7.188	8.912/8.812	7.313/ 7.188	6.647	13.63	17.63	21.63	25.63	29.63	12.38	16.38	20.38	24.38	28.38	8.00	12.00	16.00	20.00	24.00
9.299	8.719/8.650	7.445/7.350	8.742/8.650	7.468/7.350	6.917	12.50	16.50	20.50	24.50	28.50	11.50	15.50	19.50	23.50	27.50	8.00	12.00	16.00	20.00	24.00
10.624	9.886/9.812	8.288/8.188	9.912/9.812	8.313/8.188	7.647	14.63	19.13	23.63	28.13	32.63	13.38	17.88	22.38	26.88	31.38	9.00	13.50	18.00	22.50	27.00
10.299	9.719/9.650	8.445/8.350	9.742/9.650	8.468/8.350	7.917	13.50	18.00	22.50	27.00	31.50	12.50	17.00	21.50	26.00	30.50	9.00	13.50	18.00	22.50	27.00
11.949	11.061/10.974	9.138/9.026	11.089/10.974	9.166/9.026	8.376	16.75	21.75	26.75	31.75	36.75	15.25	20.25	25.25	30.25	35.25	10.00	15.00	20.00	25.00	30.00
11.624	10.886/10.812	9.288/9.188	10.912/10.812	9.313/9.188	8.647	15.63	20.63	25.63	30.63	35.63	14.38	19.38	24.38	29.38	34.38	10.00	15.00	20.00	25.00	30.00
11.299	10.724/10.650	9.445/9.350	10.742/10.650	9.468/9.350	8.917	14.50	19.50	24.50	29.50	34.50	13.50	18.50	23.50	28.50	33.50	10.00	15.00	20.00	25.00	30.00
12.949	12.061/11.974	10.138/10.026	12.089/11.974	10.166/10.026	9.376	17.75	23.25	28.75	34.25	39.75	16.25	21.75	27.25	32.75	38.25	11.00	16.50	22.00	27.50	33.00
12.624	11.898/11.812	10.300/10.188	11.926/11.812	10.328/10.188	9.647	16.63	22.13	27.63	33.13	38.63	15.38	20.88	26.38	31.88	37.38	11.00	16.50	22.00	27.50	33.00
12.299	11.724/11.650	10.445/10.350	11.742/11.650	10.468/10.350	9.917	15.50	21.00	26.50	32.00	37.50	14.50	20.00	25.50	31.00	36.50	11.00	16.50	22.00	27.50	33.00
14.273	13.236/13.137	10.988/10.863	13.271/13.137	11.023/10.863	10.106	19.88	25.88	31.88	37.88	43.88	18.13	24.13	30.13	36.13	42.13	12.00	18.00	24.00	30.00	36.00
13.949	13.067/12.974	11.144/11.026	13.099/12.974	11.176/11.026	10.376	18.75	24.75	30.75	36.75	42.75	17.25	23.25	29.25	35.25	41.25	12.00	18.00	24.00	30.00	36.00
13.624	12.898/12.812	11.300/11.188	12.926/12.812	11.328/11.188	10.647	17.63	23.63	29.63	35.63	41.63	16.38	22.38	28.38	34.38	40.38	12.00	18.00	24.00	30.00	36.00
13.299	12.724/12.649	11.450/11.350	12.749 /12.649	11.475/11.350	10.917	16.50	22.50	28.50	34.50	40.50	15.50	21.50	27.50	33.50	39.50	12.00	18.00	24.00	30.00	36.00
15.273	14.236/14.137	11.988/11.863	14.271/14.137	12.023/11.863	11.106	20.88	27.38	33.88	40.38	46.88	19.13	25.63	32.13	38.63	45.13	13.00	19.50	26.00	32.50	39.00
14.949	14.067/13.974	12.144/12.026	14.099/13.974	12.176/12.026	11.376	19.75	26.25	32.75	39.25	45.75	18.25	24.75	31.25	37.75	44.25	13.00	19.50	26.00	32.50	39.00
14.624	13.898/13.812	12.300/12.188	13.926/13.812	12.328/12.188	11.647	18.63	25.13	31.63	38.13	44.63	17.38	23.88	30.38	36.88	43.38	13.00	19.50	26.00	32.50	39.00
16.598	15.406/15.299	12.833/12.701	15.444/15.299	12.871/12.701	11.835	23.00	30.00	37.00	44.00	51.00	21.00	28.00	35.00	42.00	49.00	14.00	21.00	28.00	35.00	42.00
15.949	15.067/14.974	13.144/13.026	15.099/14.974	13.176/13.026	12.376	20.75	27.75	34.75	41.75	48.75	19.25	26.25	33.25	40.25	47.25	14.00	21.00	28.00	35.00	42.00
15.624	14.898/14.812	13.300/13.188	14.926/14.812	13.328/13.188	12.674	19.63	26.63	33.63	40.63	47.63	18.38	25.38	32.38	39.38	46.38	14.00	21.00	28.00	35.00	42.00
15.299	14.724/14.649	13.450/13.350	14.749 /14.649	13.475/13.350	12.917	18.50	25.50	32.50	39.50	46.50	17.50	24.50	31.50	38.50	45.50	14.00	21.00	28.00	35.00	42.00
17.598	16.406/16.299	13.833/13.701	16.444/16.299	13.871/13.701	12.835	24.00	31.50	39.00	46.50	54.00	22.00	29.50	37.00	44.50	52.00	15.00	22.50	30.00	37.50	45.00
16.949	16.067/15.974	14.144/14.026	16.099/15.974	14.176/14.026	13.376	21.75	29.25	36.75	44.25	51.75	20.25	27.75	35.25	42.75	50.25	15.00	22.50	30.00	37.50	45.00
18.598	17.406/17.299	14.833/14.701	17.444/17.299	14.871/14.701	13.835	25.00	33.00	41.00	49.00	57.00	23.00	31.00	39.00	47.00	55.00	16.00	24.00	32.00	40.00	48.00
17.949	17.067/16.974	15.144/15.026	17.099/16.974	15.176/15.026	14.376	22.75	30.75	38.75	46.75	54.75	21.25	29.25	37.25	45.25	53.25	16.00	24.00	32.00	40.00	48.00
21.248	19.738/19.624	16.516/16.376	19.778/19.624	16.556/16.376	15.294	29.25	38.25	47.25	56.25	65.25	26.75	35.75	44.75	53.75	62.75	18.00	27.00	36.00	45.00	54.00
20.598	19.406/19.299	16.833/16.701	19.444/19.299	16.871/16.701	15.835	27.00	36.00	45.00	54.00	63.00	25.00	34.00	43.00	52.00	61.00	18.00	27.00	36.00	45.00	54.00
19.949	19.067/18.974	17.144/17.026	19.099/18.974	17.176/17.026	16.376	24.75	33.75	42.75	51.75	60.75	23.25	32.25	41.25	50.25	59.25	18.00	27.00	36.00	45.00	54.00
23.248	21.738/21.624	18.516/18.376	21.778/21.624	18.556/18.376	17.294	31.25	41.25	51.25	61.25	71.25	28.75	38.75	48.75	58.75	68.75	20.00	30.00	40.00	50.00	60.00
22.598	21.406/21.299	18.833/18.701	21.444/21.299	18.871/18.701	17.835	29.00	39.00	49.00	59.00	69.00	27.00	37.00	47.00	57.00	67.00	20.00	30.00	40.00	50.00	60.00
21.949	21.067/20.974	19.144/19.026	21.099/20.974	19.176/19.026	18.376	26.75	36.75	46.75	56.75	66.75	25.25	35.25	45.25	55.25	65.25	20.00	30.00	40.00	50.00	60.00
25.248	23.738/23.624	20.516/20.376	23.778/23.624	20.556/20.376	19.294	33.25	44.25	55.25	66.25	77.25	30.75	41.75	52.75	63.75	74.75	22.00	33.00	44.00	55.00	66.00
24.598	23.406/23.299	20.833/20.701	23.444/23.299	20.871/20.701	19.835	31.00	42.00	53.00	64.00	75.00	29.00	40.00	51.00	62.00	73.00	22.00	33.00	44.00	55.00	66.00
23.949	23.067/22.974	21.144/21.026	23.099/22.974	21.176/21.026	20.376	28.75	39.75	50.75	61.75	72.75	27.25	38.25	49.25	60.25	71.25	22.00	33.00	44.00	55.00	66.00
27.897	26.093/25.948	22.221/22.051	26.135/25.948	22.263/22.051	20.752	37.50	49.50	61.50	73.50	85.50	34.50	46.50	58.50	70.50	82.50	24.00	36.00	48.00	60.00	72.00
26.598	25.414/25.299	22.841/22.701	25.454/25.299	22.881/22.701	21.835	33.00	45.00	57.00	69.00	81.00	31.00	43.00	55.00	67.00	79.00	24.00	36.00	48.00	60.00	72.00
25.949	25.044/24.975	23.121/23.026	25.135/24.975	23.186/23.026	22.376	30.75	42.75	54.75	66.75	78.75	29.25	41.25	53.25	65.25	77.25	24.00	36.00	48.00	60.00	72.00
27.949	27.044/26.975	25.121/25.026	27.135/26.975	25.186/25.026	24.376	32.75	45.75	58.75	71.75	84.75	31.25	44.25	57.25	70.25	83.25	26.00	39.00	52.00	65.00	78.00
30.897	29.093/28.948	25.221/25.051	29.135/28.498	25.263/25.051	23.752	40.50	54.00	67.50	81.00	94.50	37.50	51.00	64.50	78.00	91.50	27.00	40.50	54.00	67.50	81.00
29.598	28.414/28.299	25.841/25.701	28.454/28.299	25.881/25.701	24.835	36.00	49.50	63.00	76.50	90.00	34.00	47.50	61.00	74.50	88.00	27.00	40.50	54.00	67.50	81.00
34.547	32.428/32.273	27.907/27.727	32.472/32.273	27.951/27.727	26.211	45.75	60.75	75.75	90.75	105.75	42.25	57.25	72.25	87.25	102.25	30.00	45.00	60.00	75.00	90.00
33.897	32.093/31.948	28.221/28.051	32.135/31.948	28.263/28.051	26.752	43.50	58.50	73.50	88.50	103.50	40.50	55.50	70.50	85.50	100.50	30.00	45.00	60.00	75.00	90.00
32.598	31.414/31.299	28.841/28.701	31.454/31.299	28.881/28.701	27.835	39.00	54.00	69.00	84.00	99.00	37.00	52.00	67.00	82.00	97.00	30.00	45.00	60.00	75.00	90.00
37.547	35.428/35.273	30.907/30.727	35.472/35.273	30.951/30.727	29.211	48.75	65.25	81.75	98.25	114.75	45.25	61.75	78.25	94.75	111.25	33.00	49.50	66.00	82.50	99.00
36.897	35.093/34.948	31.221/31.051	35.135/34.948	31.263/31.051	29.752	46.50	63.00	79.50	96.00	112.50	43.50	60.00	76.50	93.00	109.50	33.00	49.50	66.00	82.50	99.00
35.598	34.414/34.299	31.841/31.701	34.454/34.299	31.881/31.701	30.835	42.00	58.50	75.00	91.50	108.00	40.00	56.50	73.00	89.50	106.00	33.00	49.50	66.00	82.50	99.00
41.196	38.763/38.598	33.592/33.402	38.809/38.598	33.638/33.402	31.670	54.00	72.00	90.00	108.00	126.00	50.00	68.00	86.00	104.00	122.00	36.00	54.00	72.00	90.00	108.00
39.897	38.093/37.948	34.221/34.051	38.135/37.948	34.263/34.051	32.752	49.50	67.50	85.50	103.50	121.50	46.50	64.50	82.50	100.50	118.50	36.00	54.00	72.00	90.00	108.00
44.196	41.763/41.598	36.592/36.402	41.809/41.598	36.638/36.402	34.670	57.00	76.50	96.00	115.50	135.00	53.00	72.50	92.00	111.50	131.00	39.00	58.50	78.00	97.50	117.00
47.846	45.098/44.923	39.277/39.077	45.147/44.923	39.327/39.077	37.129	62.25	83.25	104.25	125.25	146.25	57.75	78.75	99.75	120.75	141.75	42.00	63.00	84.00	105.00	126.00
45.897	44.093/43.948	40.221/40.051	44.135/43.948	40.263/40.051	38.752	55.50	76.50	97.50	118.50	139.50	52.50	73.50	94.50	115.50	136.50	42.00	63.00	84.00	105.00	126.00

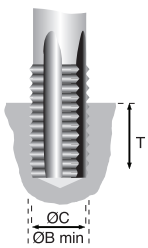
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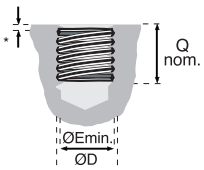
UNF/UNC BSF	
A	Ø di foratura o interiore di prefilettatura.
B	Ø maggiore di prefilettatura (Minimo).
C	Ø dei fianchi della prefilettatura.
D	Ø dei fianchi dell'inserto installati.
E	Ø interno dell'inserto installato (Minimo).
FC	Ø esterno dell'inserto allo stato libero.
S	Profondità di foratura (Minima).
T	Profondità "utile" di filettatura (Minima).
Q	Filettatura "utile" dell'inserto.
NC	Numero di filetti.











MISURA UNF	Punta mm	Punta "	A max/min mm	FC min/max mm	NC max/min 1.0D	1.5D	2.0D	2.5D	3.0D
No 2 - 64	2.30	3/32	2.36/2.27	2.79/3.05	3.70/3.40	6.30/5.80	8.90/8.20	11.60/10.50	14.20/12.90
No 3 - 56	2.70	#37	2.71/2.61	3.05/3.81	3.70/3.10	6.40/5.20	9.00/7.40	11.60/9.60	14.30/11.80
No 4 - 48	3.00	#31	3.07/2.96	3.56/4.06	3.70/3.20	6.40/5.40	9.00/7.60	11.60/9.80	14.20/12.10
No 5 - 44	3.40	#30	3.41/3.3	4.06/4.32	3.70/3.40	6.30/5.80	8.90/8.20	11.50/10.60	14.20/13.00
No 6 - 40	3.70	#27	3.75/3.64	4.32/4.83	3.70/3.20	6.30/5.50	9.00/7.80	11.60/10.10	14.20/12.40
No 8 - 36	4.40	11/64	4.43/4.32	5.08/5.59	4.10/3.60	6.90/6.10	9.70/8.60	12.50/11.10	15.30/13.60
No 10 - 32	5.10	-	5.12/5	5.84/6.6	4.30/3.80	7.20/6.40	10.10/9.00	13.00/11.60	15.90/14.20
1/4 X 28	6.60	-	6.72/6.55	7.62/8.38	5.20/4.70	8.50/7.70	11.90/10.80	15.20/13.80	18.60/16.90
5/16 X 24	8.20	-	8.35/8.17	9.4/10.16	5.60/5.10	9.20/8.50	12.80/11.70	16.40/15.00	20.00/18.30
3/8 X 24	9.80	-	9.93/9.75	10.92/11.94	7.10/6.50	11.40/10.50	15.80/14.50	20.10/18.50	24.50/22.50
7/16 X 20	11.50	29/64	11.58/11.39	12.95/13.97	6.90/6.30	11.10/10.20	15.30/14.00	19.50/17.90	23.70/21.70
1/2 X 20	13.00	33/64	13.16/12.97	14.48/15.75	8.10/7.40	12.90/11.90	17.80/16.30	22.60/20.80	27.50/25.20
9/16 X 18	14.75	-	14.79/14.59	16.26/17.53	8.30/7.60	13.30/12.20	18.20/16.80	23.10/21.30	28.10/25.90
5/8 X 18	16.50	-	16.38/16.18	17.78/19.3	9.40/8.70	14.90/13.80	20.50/18.90	26.00/24.00	31.50/29.10
3/4 X 16	19.50	49/64	19.6/19.39	21.34/22.86	10.10/9.30	15.90/14.70	21.70/20.10	27.60/25.50	33.40/30.90
7/8 X 14	22.50	57/64	22.84/22.62	24.89/26.67	10.30/9.60	16.30/15.10	22.20/20.60	28.20/26.10	34.20/31.60
1 X 12	26.00	-	26.11/25.86	28.45/30.48	10.10/9.40	16.00/14.80	21.80/20.30	27.70/25.70	33.50/31.10
1 X 14	26.00	-	26.02/25.79	27.94/30.23	12.10/11.20	18.90/17.50	25.70/23.80	32.50/30.10	39.40/36.40
1-1/8 X 12	29.50	1.5/32	29.32/29.03	31.75/33.78	11.60/10.80	18.20/16.90	24.80/23.00	31.40/29.20	38.00/35.30
1-1/4 X 12	32.50	1.9/32	32.49/32.21	34.8/37.34	13.10/12.20	20.40/19.00	27.80/25.80	35.10/32.70	42.50/39.50
1-3/8 X 12	35.50	1.13/32	35.67/35.38	38.1/40.89	14.60/13.50	22.70/21.00	30.80/28.50	38.80/36.00	46.90/43.50
1-1/2 X 12	38.50	-	38.84/38.56	41.15/44.45	16.10/14.90	24.90/23.10	33.70/31.30	42.60/39.50	51.40/47.70
UNC									
No 2 - 56	2.40	#41	2.39/2.28	2.79/3.05	3.10/2.80	5.40/4.80	7.80/6.90	10.10/9.00	12.50/11.10
No 3 - 48	2.70	#37	2.74/2.63	3.05/3.56	3.20/2.80	5.50/4.90	7.90/7.00	10.30/9.00	12.70/11.20
No 4 - 40	3.00	#31	3.11/2.98	3.56/4.06	2.80/2.40	4.90/4.30	7.10/6.20	9.20/8.10	11.40/10.00
No 5 - 40	3.40	#30	3.44/3.31	4.06/4.32	3.30/2.90	5.70/5.00	8.10/7.20	10.50/9.30	13.00/11.50
No 6 - 32	3.70	#27	3.82/3.68	4.57/4.83	2.70/2.40	4.80/4.30	7.00/6.20	9.10/8.20	11.20/10.10
No 8 - 32	4.40	11/64	4.47/4.34	5.08/5.59	3.50/3.20	6.10/5.50	8.60/7.80	11.20/10.10	13.70/12.40
No 10 - 24	5.10	-	5.21/5.05	6.1/6.6	2.80/2.60	5.00/4.60	7.20/6.70	9.40/8.70	11.60/10.70
No 12 - 24	5.70	15/64	5.86/5.72	6.86/7.11	3.50/3.20	6.00/5.60	8.50/7.90	11.00/10.30	13.50/12.60
1/4 X 20	6.70	17/64	6.87/6.62	7.87/8.38	3.30/3.10	5.70/5.30	8.10/7.60	10.50/9.90	13.00/12.10
5/16 X 18	8.30	21/64	8.49/8.24	9.65/10.16	3.90/3.70	6.70/6.30	9.50/8.90	12.20/11.50	15.00/14.10
3/8 X 16	9.90	25/64	10.12/9.87	11.43/11.94	4.30/4.10	7.20/6.80	10.10/9.60	13.10/12.40	16.00/15.20
7/16 X 14	11.60	-	11.78/11.51	13.21/13.97	4.40/4.10	7.40/7.00	10.40/9.80	13.40/12.60	16.30/15.50
1/2 X 13	13.00	33/64	13.4/13.12	14.99/15.75	4.80/4.50	8.00/7.50	11.10/10.60	14.30/13.60	17.50/16.60
9/16 X 12	15.00	19/32	15.03/14.74	16.76/17.53	5.00/4.80	8.40/7.90	11.70/11.10	15.00/14.20	18.30/17.40
5/8 X 11	16.50	-	16.68/16.38	18.8/19.56	5.10/4.90	8.50/8.10	11.90/11.30	15.20/14.50	18.60/17.70
3/4 X 10	20.00	-	19.91/19.6	22.1/23.11	5.80/5.50	9.50/9.00	13.10/12.60	16.80/16.10	20.50/19.60
7/8 X 9	23.00	29/32	23.17/22.84	25.65/26.67	6.20/5.90	10.00/9.60	13.90/13.30	17.80/17.00	21.70/20.70
1 X 8	26.25	-	26.47/26.09	29.21/30.48	6.30/6.00	10.20/9.80	14.20/13.60	18.10/17.30	22.00/21.10
1-1/8 X 7	29.50	1.5/32	29.74/29.36	33.02/34.54	6.20/5.90	10.10/9.60	14.00/13.30	17.90/17.00	21.80/20.70
1-1/4 X 7	32.50	1.9/32	32.92/32.53	36.07/37.59	7.10/6.70	11.40/10.90	15.80/15.00	20.10/19.20	24.40/23.30
1-3/8 X 6	36.00	-	36.35/35.84	40.13/41.66	6.50/6.20	10.60/10.10	14.60/14.00	18.70/17.80	22.70/21.70
1-1/2 X 6	39.50	1.35/64	39.52/39.02	43.18/44.96	7.30/6.90	11.70/11.20	16.10/15.40	20.60/19.60	25.00/23.90
BSF									
3/16 X 32	5.00	-	5.03/4.88	5.84/6.35	4.30/3.90	7.20/6.50	10.20/9.20	13.10/11.90	16.00/14.50
1/4 X 26	6.60	-	6.71/6.53	7.62/8.38	4.80/4.30	7.90/7.10	11.20/9.90	14.40/12.70	17.50/15.60
5/16 X 22	8.30	21/64	8.38/8.2	9.4/10.16	5.20/4.70	8.50/7.70	11.90/10.70	15.30/13.80	18.70/16.80
3/8 X 20	9.80	-	9.96/9.78	11.18/12.19	5.80/5.30	9.40/8.60	13.20/12.00	16.90/15.30	20.50/18.70
7/16 X 18	11.60	-	11.63/11.43	12.95/14.22	6.20/5.60	10.00/9.10	13.90/12.60	17.80/16.10	21.60/19.60
1/2 X 16	13.25	-	13.26/13.03	14.73/16	6.30/5.70	10.20/9.30	14.20/12.90	18.10/16.50	22.00/20.00
9/16 X 16	14.75	-	14.88/14.66	16.26/17.78	7.30/6.60	11.70/10.60	16.10/14.70	20.60/18.70	25.00/22.70
5/8 X 14	16.30	41/64	16.48/16.26	18.29/19.56	7.10/6.50	11.30/10.40	15.70/14.30	20.00/18.30	24.30/22.20
3/4 X 12	19.50	49/64	19.69/19.43	21.84/23.37	7.30/6.70	11.70/10.80	16.20/14.90	20.70/19.00	25.10/23.00
7/8 X 11	22.75	-	22.86/22.61	25.15/27.18	7.90/7.20	12.60/11.60	17.40/15.90	22.10/20.30	26.90/24.60
1 X 10	26.25	-	26.52/26.19	28.7/30.99	8.30/7.60	13.20/12.10	18.10/16.60	23.10/21.20	28.00/25.70
1-1/8 X 9	29.50	1.5/32	29.72/29.36	32.26/34.8	8.40/7.80	13.30/12.30	18.40/17.00	23.40/21.50	28.40/26.10
1-1/4 X 9	32.50	1.9/32	32.89/32.54	35.31/38.1	9.50/8.80	15.00/13.90	20.60/19.00	26.20/24.20	31.70/29.30
1-3/8 X 8	36.00	-	36.07/35.71	39.12/42.16	9.30/8.50	14.60/13.50	20.10/18.50	25.50/23.50	31.00/28.50
1-1/2 X 8	39.00	1.17/32	39.24/38.89	42.16/45.97	10.30/9.40	16.10/14.80	22.10/20.10	28.00/25.50	33.90/30.90

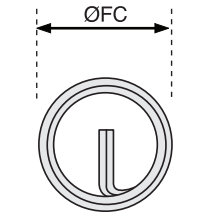
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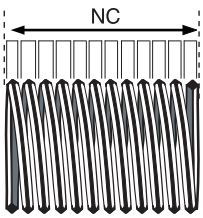
B	C (5H)	D (4H)	C (6H)	D (5H)	E	S					T					Q				
mm	mm	mm	mm	mm	mm	1.0D	1.5D	2.0D	2.5D	3.0D	1.0D	1.5D	2.0D	2.5D	3.0D	1.0D	1.5D	2.0D	2.5D	3.0D
0.106	0.0974/0.0962	0.0779/0.0759	0.0980/0.0962	0.0786/0.0759	0.0691	0.156	0.199	0.242	0.285	0.328	0.141	0.184	0.227	0.270	0.313	0.086	0.129	0.172	0.215	0.258
0.122	0.1119/0.1106	0.0895/0.0874	0.1126/0.1106	0.0902/0.0874	0.0797	0.179	0.229	0.278	0.328	0.377	0.161	0.210	0.260	0.310	0.359	0.099	0.148	0.198	0.247	0.297
0.139	0.1270/0.1255	0.1008/0.0985	0.1278/0.1255	0.1016/0.0985	0.0894	0.206	0.262	0.318	0.374	0.430	0.185	0.241	0.297	0.353	0.409	0.112	0.168	0.224	0.280	0.336
0.155	0.1414/0.1398	0.1126/0.1102	0.1422/0.1398	0.1134/0.1102	0.1004	0.227	0.290	0.352	0.414	0.477	0.204	0.267	0.329	0.391	0.454	0.125	0.187	0.250	0.312	0.375
0.171	0.1559/0.1542	0.1243/0.1218	0.1568/0.1542	0.1252/0.1218	0.111	0.250	0.319	0.388	0.457	0.526	0.225	0.294	0.363	0.432	0.501	0.138	0.207	0.276	0.345	0.414
0.200	0.1839/0.1820	0.1487/0.1460	0.1848/0.1820	0.1496/0.1460	0.134	0.289	0.371	0.453	0.535	0.617	0.261	0.343	0.425	0.507	0.589	0.164	0.246	0.328	0.410	0.492
0.231	0.2123/0.2103	0.1726/0.1697	0.2133/0.2103	0.1736/0.1697	0.156	0.331	0.426	0.521	0.616	0.711	0.299	0.394	0.489	0.584	0.679	0.190	0.285	0.380	0.475	0.570
0.296	0.2754/0.2732	0.2300/0.2268	0.2765/0.2732	0.2311/0.2268	0.2113	0.411	0.536	0.661	0.786	0.911	0.375	0.500	0.625	0.750	0.875	0.250	0.375	0.500	0.625	0.750
0.367	0.3421/0.3395	0.2890/0.2854	0.3433/0.3395	0.2902/0.2854	0.2674	0.500	0.656	0.812	0.969	1.125	0.458	0.614	0.771	0.927	1.083	0.312	0.469	0.625	0.781	0.937
0.429	0.4047/0.4020	0.3516/0.3479	0.4059/0.4020	0.3528/0.3479	0.3299	0.562	0.750	0.937	1.124	1.312	0.521	0.708	0.896	1.083	1.271	0.375	0.562	0.750	0.937	1.125
0.503	0.4731/0.4700	0.4091/0.4050	0.4744/0.4700	0.4104/0.4050	0.3834	0.662	0.881	1.100	1.319	1.537	0.612	0.831	1.050	1.269	1.487	0.437	0.656	0.875	1.094	1.312
0.565	0.5357/0.5325	0.4717/0.4675	0.5371/0.5325	0.4731/0.4675	0.4459	0.725	0.975	1.225	1.475	1.725	0.675	0.925	1.175	1.425	1.675	0.500	0.750	1.000	1.250	1.500
0.635	0.6020/0.5986	0.5308/0.5264	0.6035/0.5986	0.5323/0.5264	0.5024	0.811	1.093	1.374	1.655	1.936	0.756	1.038	1.319	1.600	1.881	0.562	0.844	1.125	1.406	1.687
0.697	0.6646/0.6611	0.5934/0.5889	0.6661/0.6611	0.5949/0.5889	0.5649	0.874	1.187	1.500	1.812	2.124	0.819	1.132	1.444	1.757	2.069	0.625	0.937	1.250	1.562	1.875
0.831	0.7945/0.7906	0.7143/0.7094	0.7961/0.7906	0.7159/0.7094	0.6823	1.031	1.406	1.781	2.156	2.531	0.969	1.344	1.719	2.094	2.469	0.750	1.125	1.500	1.875	2.250
0.968	0.9257/0.9214	0.8339/0.8286	0.9274/0.9214	0.8356/0.8286	0.7977	1.196	1.634	2.071	2.509	2.946	1.125	1.562	2.000	2.437	2.875	0.875	1.312	1.750	2.187	2.625
1.108	1.0589/1.0542	0.9516/0.9459	1.0608/1.0542	0.9535/0.9459	0.9098	1.375	1.875	2.375	2.875	3.375	1.292	1.792	2.292	2.792	3.292	1.000	1.500	2.000	2.500	3.000
1.093	1.0508/1.0464	0.9590/0.9536	1.0527/1.0464	0.9609/0.9536	0.9277	1.32	1.82	2.32	2.82	3.32	1.25	1.75	2.25	2.75	3.25	1.000	1.500	2.000	2.500	3.000
1.233	1.1841/1.1792	1.0768/1.0709	1.1860/1.1792	1.0787/1.0709	1.0348	1.500	2.062	2.625	3.187	3.750	1.417	1.979	2.542	3.104	3.667	1.125	1.687	2.250	2.812	3.375
1.358	1.3092/1.3042	1.2019/1.9590	1.3112/1.3042	1.2039/1.1959	1.1598	1.625	2.250	2.875	3.500	4.125	1.542	2.167	2.792	3.417	4.042	1.250	1.875	2.500	3.125	3.750
1.483	1.4343/1.4292	1.3270/1.3209	1.4364/1.4292	1.3291/1.3209	1.2848	1.750	2.438	3.125	3.813	4.500	1.667	2.354	3.042	3.729	4.417	1.375	2.062	2.750	3.437	4.125
1.608	1.5595/1.5542	1.4522/1.4459	1.5615/1.5542	1.4542/1.4459	1.4098	1.875	2.625	3.375	4.125	4.875	1.792	2.542	3.292	4.042	4.792	1.500	2.250	3.000	3.750	4.500
0.109	0.0989/0.0976	0.0765/0.0744	0.0996/0.0976	0.0772/0.0744	0.0667	0.166	0.209	0.252	0.295	0.338	0.148	0.191	0.234	0.277	0.320	0.086	0.129	0.172	0.215	0.258
0.126	0.1139/0.1125	0.0877/0.0855	0.1147/0.1125	0.0885/0.0855	0.0764	0.193	0.242	0.292	0.341	0.391	0.172	0.221	0.271	0.320	0.370	0.099	0.148	0.198	0.247	0.297
0.145	0.1298/0.1282	0.0982/0.0958	0.1307/0.1282	0.0991/0.0958	0.0849	0.224	0.280	0.336	0.392	0.448	0.199	0.255	0.311	0.367	0.423	0.112	0.168	0.224	0.280	0.336
0.158	0.1429/0.1412	0.1113/0.1088	0.1437/0.1412	0.1121/0.1088	0.0979	0.237	0.300	0.362	0.425	0.487	0.212	0.275	0.337	0.400	0.462	0.125	0.187	0.250	0.312	0.375
0.179	0.1601/0.1583	0.1204/0.1177	0.1611/0.1583	0.1214/0.1177	0.1040	0.279	0.348	0.417	0.486	0.555	0.247	0.316	0.385	0.454	0.523	0.138	0.207	0.276	0.345	0.414
0.205	0.1862/0.1843	0.1465/0.1437	0.1872/0.1843	0.1475/0.1437	0.1300	0.305	0.387	0.469	0.551	0.633	0.273	0.355	0.437	0.519	0.601	0.164	0.246	0.328	0.410	0.492
0.244	0.2193/0.2171	0.1661/0.1629	0.2204/0.2171	0.1672/0.1629	0.1450	0.377	0.472	0.567	0.662	0.757	0.336	0.431	0.526	0.621	0.716	0.190	0.285	0.380	0.475	0.570
0.270	0.2454/0.2431	0.1922/0.1889	0.2465/0.2431	0.1933/0.1889	0.1710	0.403	0.511	0.619	0.727	0.835	0.362	0.470	0.578	0.686	0.794	0.216	0.324	0.432	0.540	0.648
0.315	0.2851/0.2825	0.2211/0.2175	0.2863/0.2825	0.2223/0.2175	0.1959	0.475	0.600	0.725	0.850	0.975	0.425	0.550	0.675	0.800	0.925	0.250	0.375	0.500	0.625	0.750
0.385	0.3515/0.3486	0.2803/0.2764	0.3529/0.3486	0.2817/0.2764	0.2524	0.562	0.718	0.875	1.031	1.187	0.507	0.663	0.819	0.975	1.132	0.312	0.469	0.625	0.781	0.937
0.456	0.4189/0.4156	0.3387/0.3344	0.4203/0.4156	0.3401/0.3344	0.3073	0.656	0.844	1.031	1.219	1.406	0.594	0.781	0.969	1.156	1.344	0.375	0.562	0.750	0.937	1.125
0.530	0.4875/0.4839	0.3957/0.3911	0.4890/0.4839	0.3972/0.3911	0.3602	0.758	0.977	1.196	1.415	1.633	0.687	0.906	1.125	1.344	1.562	0.437	0.656	0.875	1.094	1.312
0.600	0.5537/0.5499	0.4548/0.4500	0.5554/0.5499	0.4565/0.4500	0.4167	0.846	1.096	1.346	1.596	1.846	0.769	1.019	1.269	1.519	1.769	0.500	0.750	1.000	1.250	1.500
0.671	0.6208/0.6167	0.5135/0.5084	0.6225/0.6167	0.5152/0.5084	0.4723	0.937	1.219	1.500	1.781	2.062	0.854	1.135	1.417	1.698	1.979	0.562	0.844	1.125	1.406	1.687
0.743	0.6885/0.6841	0.5714/0.5660	0.6903/0.6841	0.5732/0.5660	0.5266	1.034	1.347	1.659	1.972	2.284	0.943	1.256	1.568	1.881	2.193	0.625	0.937	1.250	1.562	1.875
0.880	0.8196/0.8149	0.6907/0.6850	0.8216/0.8149	0.6927/0.6850	0.6417	1.200	1.575	1.950	2.325	2.700	1.100	1.475	1.850	2.225	2.600	0.750	1.125	1.500	1.875	2.250
1.019	0.9522/0.9471	0.8089/0.8028	0.9543/0.9471	0.8110/0.8028	0.7547	1.375	1.812	2.250	2.687	3.125	1.264	1.701	2.139	2.576	3.014	0.875	1.312	1.750	2.187	2.625
1.162	1.0868/1.0812	0.9254/0.9188	1.0890/1.0812	0.9276/0.9188	0.8647	1.562	2.062	2.562	3.062	3.562	1.437	1.937	2.437	2.937	3.437	1.000	1.500	2.000	2.500	3.000
1.311	1.2239/1.2178	1.0393/1.0322	1.2262/1.2178	1.0416/1.0322	0.9704	1.768	2.330	2.893	3.455	4.018	1.625	2.187	2.750	3.312	3.875	1.125	1.687	2.250	2.812	3.375
1.436	1.3490/1.3428	1.1644/1.1572	1.3514/1.3428	1.1668/1.1572	1.0954	1.893	2.518	3.143	3.768	4.393	1.750	2.375	3.000	3.625	4.250	1.250	1.875	2.500	3.125	3.750
1.591	1.4900/1.4832	1.2745/1.2667	1.4926/1.4832	1.2771/1.2667	1.1946	2.125	2.812	3.500	4.187	4.875	1.958	2.646	3.333	4.021	4.708	1.375	2.062	2.750	3.437	4.125
1.716	1.6151/1.6082	1.3996/1.3917	1.6177/1.6082	1.4022/1.3917	1.3196	2.250	3.000	3.750	4.500	5.250	2.083	2.833	3.583	4.333	5.083	1.500	2.250	3.000	3.750	4.500
0.225	0.2087/.2075	0.1697/0.1675	0.2098/0.2075	0.1708/0.1675	0.1475	0.328	0.422	0.515	0.609	0.703	0.297	0.390	0.484	0.578	0.672	0.187	0.281	0.375	0.469	0.562
0.296	0.2762/0.2747	0.2279/0.2254	0.2774/0.2747	0.2291/0.2254	0.2008	0.423	0.548	0.673	0.798	0.923	0.385	0.510	0.635	0.760	0.885	0.250	0.375	0.500	0.625	0.750
0.366	0.3433/0.3416	0.2861/0.2834	0.3447/0.3416	0.2875/0.2834	0.2543	0.517	0.673	0.829	0.986	1.142	0.472	0.628	0.784	0.940	1.096	0.312	0.469	0.625	0.781	0.937
0.434	0.4089/0.4070	0.3459/0.3430	0.4104/0.4070	0.3474/0.3430	0.3110	0.600	0.787	0.975	1.162	1.350	0.550	0.737	0.925	1.112	1.300	0.375	0.562	0.750	0.937	1.125
0.503	0.4751/0.4730	0.4050/0.4019	0.4767/0.4730	0.4066/0.4019	0.3663	0.687	0.906	1.124	1.343	1.562	0.632	0.851	1.069	1.288	1.507	0.437	0.656	0.875	1.094	1.312
0.574	0.5423/0.5400	0.4633/0.4600	0.5440/0.5400	0.4650/0.4600	0.4200	0.781	1.031	1.281	1.531	1.781	0.719	0.969	1.219	1.469	1.719	0.500	0.750	1.000	1.250	1.500
0.636	0.6049/0.6025	0.5259/0.5225	0.6067/0.6025	0.5277/0.5225	0.4825	0.844	1.125	1.406	1.687	1.969	0.781	1.062	1.344	1.625	1.906	0.562	0.844	1.125	1.406	1.687
0.709	0.6734/0.6708	0.5829/0.5793	0.6752/0.6708	0.5847/0.5793	0.5336	0.946	1.259	1.571	1.884	2.196	0.875	1.187	1.500	1.812	2.125	0.625	0.937	1.250	1.562	1.875
0.848	0.8062/0.8033	0.7005/0.6966	0.8082/0.8033	0.7025/0.6966	0.6432	1.125	1.500	1.875	2.250	2.625	1.042	1.417	1.792	2.167	2.542	0.750	1.125	1.500	1.875	2.250
0.982	0.9364/0.9332	0.8210/0.8168	0.9384/0.9332	0.8230/0.8168	0.7586	1.284	1.722	2.159	2.596	3.034	1.193	1.631	2.068	2.506	2.943	0.875	1.312	1.750	2.187	2.625
1.117	1.0675/1.0641	0.9404/0.9360	1.0697/1.0641	0.9426/0.9360	0.8720	1.450	1.950	2.450	2.950	3.450	1.350	1.850	2.350	2.850	3.350	1.000	1.500	2.000	2.500	3.000
1.255	1.1998/1.1962	1.0585/1.0539	1.2021/1.1962	1.0608/1.0539	0.9828	1.625	2.187	2.750	3.312	3.875	1.514	2.076	2.639	3.201	3.764	1.125	1.687	2.250	2.812	3.375
1.380	1.3250/1.3212	1.1837/1.1789	1.3274/1.3212	1.1861/1.1789	1.1078	1.750	2.375	3.000	3.625	4.250	1.639	2.264	2.889	3.514	4.139	1.250	1.875	2.500	3.125	3.750
1.521	1.4591/1.4551	1.3000/1.2950	1.4616/1.4551	1.3025/1.2950	1.2150	1.937	2.625	3.312	4.000	4.687	1.812	2.500	3.187	3.875	4.562	1.375	2.062	2.750	3.437	4.125
1.646	1.5843/1.5801	1.4252/1.4200	1.5868/1.5801	1.4277/1.4200	1.3400	2.062	2.812	3.562	4.312	5.062	1.937	2.687	3.437	4.187	4.937	1.500	2.250	3.000	3.750	4.500

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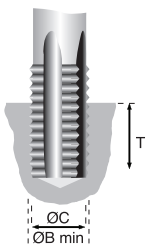
BSW	mm	"	A max/min mm	FC min/max mm	NC max/min 1.0D	1.5D	2.0D	2.5D	3.0D
1/8 X 40	3.40	#30	3.43/3.28	3.81/4.32	3.40/3.00	5.80/5.10	8.40/7.30	10.90/9.40	13.40/11.60
3/16 X 24	2.70	#37	2.71/2.61	3.05/3.81	3.70/3.10	6.40/5.20	9.00/7.40	11.60/9.60	14.30/11.80
1/4 X 20	6.70	17/64	6.78/6.63	7.87/8.38	3.40/3.10	5.90/5.40	8.50/7.70	11.00/9.90	13.50/12.20
5/16 X 18	8.30	21/64	8.48/8.33	9.4/10.16	4.10/3.80	6.90/6.40	9.80/9.00	12.60/11.60	15.50/14.20
3/8 X 16	10.00	-	10.11/9.91	11.18/11.94	4.40/4.10	7.40/6.90	10.50/9.70	13.50/12.50	16.50/15.30
7/16 X 14	11.60	-	11.76/11.51	13.21/13.97	4.60/4.20	7.60/7.10	10.70/9.90	13.80/12.80	16.90/15.60
1/12 X 12	13.00	33/64	13.34/13.08	14.99/16	4.50/4.10	7.40/7.00	10.50/9.80	13.60/12.60	16.60/15.40
9/16 X 12	14.75	-	14.94/14.68	16.51/17.53	5.20/4.90	8.60/8.00	12.00/11.20	15.40/14.40	18.80/17.60
5/8 X 11	16.50	-	16.84/16.59	18.29/19.56	5.30/5.00	8.70/8.20	12.20/11.50	15.70/14.70	19.20/17.90
3/4 X 10	20.00	-	20.09/19.84	21.84/22.86	6.00/5.60	9.70/9.20	13.50/12.70	17.30/16.30	21.10/19.80
7/8 X 9	23.25	-	23.27/23.01	25.15/26.67	6.30/6.00	10.20/9.70	14.30/13.40	18.20/17.10	22.20/20.90
1 X 8	26.50	-	26.52/26187.4	28.7/30.48	6.50/6.10	10.40/9.90	14.50/13.70	18.60/17.50	22.60/21.20
1-1/8 X 7	30.00	1.11/64	30.12/29743.4	32.51/34.29	6.30/5.90	10.20/9.60	14.30/13.40	18.20/17.10	22.20/20.80
1-1/4 X 7	33.00	1.19/64	33.3/32918.4	35.56/37.59	7.20/6.80	11.60/10.90	16.00/15.00	20.40/19.20	24.90/23.30
1-1/2 X 6	39.50	1.35/64	39.9/39268.4	42.67/45.21	7.50/7.00	11.90/11.30	16.50/15.50	21.10/19.80	25.60/24.00
BSP									
1/8 X 28	10.00	-	10.16/9.91	10.92/11.94	1.90/1.70	3.60/3.20	5.30/4.80	7.00/6.40	8.80/7.90
1/4 X 19	13.75	-	13.72/13.46	14.99/16.26	3.10/2.80	5.40/5.00	7.80/7.10	10.10/9.20	12.50/11.40
3/8 X 19	17.00	-	17.27/17.02	18.54/20.07	5.50/5.00	8.90/8.20	12.50/11.40	16.00/14.60	19.50/17.90
1/2 X 14	21.50	27/32	21.59/21.34	23.37/25.15	5.30/4.90	8.80/8.10	12.20/11.20	15.70/14.40	19.10/17.60
5/8 X 14	23.50	-	23.55/23.24	25.4/27.43	7.10/6.50	11.30/10.40	15.70/14.40	20.00/18.40	24.30/22.30
3/4 X 14	27.00	1.1/16	27.08/26.75	28.96/31.24	8.80/8.10	13.90/12.90	19.20/17.60	24.30/22.40	29.50/27.20
7/8 X 14	30.50	1.13/16	30.81/30.48	32.77/35.31	10.50/9.70	16.50/15.30	22.60/20.80	28.70/26.40	34.70/32.00
1 X 11	33.75	-	33.91/33.53	36.32/39.12	9.30/8.60	14.70/13.60	20.10/18.60	25.60/23.60	31.00/28.60
1-1/4 X 11	42.50	1.43/64	42.67/42.29	44.96/48.51	12.00/11.10	18.70/17.40	25.60/23.70	32.40/30.00	39.20/36.20
1-1/2 X 11	48.50	1.29/32	48.79/48.41	51.05/54.86	14.70/13.60	22.80/21.20	31.00/28.70	39.20/36.30	47.30/43.80
BA									
BA 6	2.90	#33	2.95/2.87	3.56/3.81	3.60/3.30	6.20/5.60	8.70/7.90	11.20/10.20	13.80/12.50
BA 5	3.40	#30	3.43/3.28	3.81/4.32	3.80/3.40	6.40/5.80	9.00/8.10	11.60/10.50	14.20/12.90
BA 4	3.80	#25	3.86/3.73	4.32/4.83	3.80/3.50	6.40/5.80	9.10/8.20	11.70/10.60	14.40/13.00
BA 3	4.30	-	4.34/4.22	5.08/5.33	3.90/3.60	6.70/6.00	9.40/8.50	12.10/10.90	14.80/13.40
BA 2	4.90	#10	4.98/4.85	5.59/6.1	4.20/3.80	6.90/6.30	9.80/8.80	12.60/11.40	15.40/13.90
BA 1	5.50	7/32	5.59/5.41	6.35/6.86	4.20/3.80	7.10/6.40	9.90/9.00	12.80/11.60	15.60/14.10
BA 0	6.20	C	6.25/6.12	7.11/7.87	4.30/3.90	7.20/6.60	10.10/9.20	13.00/11.80	16.00/14.50
BSB									
3/16 X 32	5.10	-	5.21/4.95	5.84/6.6	4.10/3.70	6.90/6.20	9.70/8.70	12.50/11.20	15.30/13.70
1/4 X 26	6.60	-	6.86/6.55	7.87/8.64	4.60/4.10	7.60/6.90	10.70/9.60	13.80/12.30	16.80/15.10
5/16 X 26	8.00	5/16	8.43/8.13	9.4/10.41	6.20/5.50	10.00/9.00	13.90/12.50	17.80/16.00	21.60/19.40
3/8 X 26	9.80	-	10.03/9.73	10.92/12.19	7.80/7.00	12.40/11.20	17.10/15.40	21.70/19.60	26.40/23.80
7/16 X 26	11.10	7/16	11.61/11.33	12.7/13.97	9.40/8.40	14.80/13.40	20.30/18.30	25.80/23.30	31.20/28.20
1/2 X 26	12.70	1/2	13.21/12.9	14.22/15.49	11.00/9.90	17.20/15.60	23.50/21.20	29.80/26.90	36.00/32.60
9/16 X 26	14.75	-	14.78/14.5	15.75/17.27	12.60/11.40	19.70/17.80	26.70/24.20	33.80/30.50	40.90/36.90
5/8 X 26	16.50	-	16.38/16.08	17.53/19.05	14.20/12.80	22.00/19.90	29.90/27.10	37.80/34.20	45.70/41.30
3/4 X 26	19.50	49/64	19.53/19.25	20.57/22.61	17.40/15.70	26.90/24.30	36.30/32.90	45.80/41.50	55.30/50.10
1 X 24	25.75	1.1/64	25.91/25.63	27.18/29.72	21.80/19.80	33.50/30.40	45.30/41.00	57.00/51.60	68.70/62.20
UN-8 PITCH									
1.1/8 X 8	28.50	1.1/8	29.34/28.7	31.75/33.02	7.50/7.10	12.00/11.50	16.60/15.80	21.10/20.10	25.60/24.50
1.1/4 X 8	32.00	1.1/4	32.51/31.88	35.31/36.32	8.30/8.10	13.30/12.90	18.30/17.70	23.30/22.60	28.20/27.40
1.3/8 X 8	35.00	1.3/8	35.69/35.05	38.61/39.88	9.30/9.00	14.80/14.30	20.20/19.60	25.70/24.90	31.20/30.20
1.1/2 X 8	38.00	1.1/2	38.86/38.23	41.91/42.93	10.30/10.00	16.20/15.80	22.20/21.50	28.10/27.30	34.10/33.10
1.5/8 X 8	41.00	1.5/8	42.04/41.4	45.21/48.26	11.20/10.50	17.70/16.40	24.10/22.40	30.50/28.40	37.00/34.30
1.3/4 X 8	44.50	1.3/4	45.21/44.58	48.26/51.82	12.20/11.40	19.20/17.80	26.10/24.20	33.00/30.70	39.90/37.10
1.7/8 X 8	47.50	1.7/8	48.39/47.75	51.56/54.86	13.20/12.40	20.60/19.30	28.10/26.20	35.50/33.20	42.90/40.10
2 X 8	51.00	2	51.56/50.93	54.86/57.91	14.20/13.40	22.10/20.90	30.00/28.40	38.00/35.90	45.90/43.30

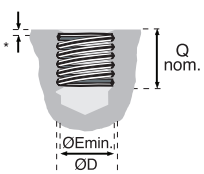
BSW/BSP BA/BSB/UN-8 PITCH	
A	Ø di foratura o interiore di prefilettatura.
B	Ø maggiore di prefilettatura (Minimo).
C	Ø dei fianchi della prefilettatura.
D	Ø dei fianchi dell'inserto installati.
E	Ø interno dell'inserto installato (Minimo).
FC	Ø esterno dell'inserto allo stato libero.
S	Profondità di foratura (Minima).
T	Profondità "utile" di filettatura (Minima).
Q	Filettatura "utile" dell'inserto.
NC	Numero di filetti.











INFORMAZIONE TECNICA PER INSERTI LIBERI

B	C (5H)	D (4H)	C (6H)	D (5H)	E	S					T					Q				
mm	mm	mm	mm	mm	mm	1.0D	1.5D	2.0D	2.5D	3.0D	1.0D	1.5D	2.0D	2.5D	3.0D	1.0D	1.5D	2.0D	2.5D	3.0D
0.155	0.1420/0.1410	0.1109/0.1090	0.1430/0.1410	0.1119/0.1090	0.0930	0.237	0.300	0.362	0.425	0.487	0.212	0.275	0.337	0.400	0.462	0.125	0.187	0.250	0.312	0.375
0.237	0.2154/0.2142	0.1631/0.1608	0.2166/0.2142	0.1643/0.1608	0.1341	0.375	0.469	0.562	0.656	0.750	0.333	0.427	0.521	0.614	0.708	0.187	0.281	0.375	0.469	0.562
0.309	0.2836/0.2820	0.2206/0.2180	0.2849/0.2820	0.2219/0.2180	0.1860	0.475	0.600	0.725	0.850	0.975	0.425	0.550	0.675	0.800	0.925	0.250	0.375	0.500	0.625	0.750
0.378	0.3498/0.3480	0.2797/0.2769	0.3512/0.3480	0.2811/0.2769	0.2413	0.562	0.718	0.875	1.031	1.187	0.507	0.663	0.819	0.975	1.132	0.312	0.469	0.625	0.781	0.937
0.448	0.4170/0.4150	0.3380/0.3350	0.4185/0.4150	0.3395/0.3350	0.2950	0.656	0.844	1.031	1.219	1.406	0.594	0.781	0.969	1.156	1.344	0.375	0.562	0.750	0.937	1.125
0.521	0.4855/0.4833	0.3950/0.3918	0.4871/0.4833	0.3966/0.3918	0.3461	0.758	0.977	1.196	1.415	1.633	0.687	0.906	1.125	1.344	1.562	0.437	0.656	0.875	1.094	1.312
0.597	0.5557/0.5533	0.4500/0.4466	0.5575/0.5533	0.4518/0.4466	0.3932	0.875	1.125	1.375	1.625	1.875	0.792	1.042	1.292	1.542	1.792	0.500	0.750	1.000	1.250	1.500
0.660	0.6184/0.6158	0.5127/0.5091	0.6201/0.6158	0.5144/0.5091	0.4557	0.937	1.219	1.500	1.781	2.062	0.854	1.135	1.417	1.698	1.979	0.562	0.844	1.125	1.406	1.687
0.731	0.6859/0.6832	0.5705/0.5668	0.6878/0.6832	0.5724/0.5668	0.5086	1.034	1.347	1.659	1.972	2.284	0.943	1.256	1.568	1.881	2.193	0.625	0.937	1.250	1.562	1.875
0.867	0.8171/0.8141	0.6900/0.6860	0.8191/0.8141	0.6920/0.6860	0.6220	1.200	1.575	1.950	2.325	2.700	1.100	1.475	1.850	2.225	2.600	0.750	1.125	1.500	1.875	2.250
1.005	0.9495/0.9462	0.8082/0.8039	0.9516/0.9462	0.8103/0.8039	0.7328	1.375	1.812	2.250	2.687	3.125	1.264	1.701	2.139	2.576	3.014	0.875	1.312	1.750	2.187	2.625
1.146	1.0836/1.0801	0.9245/0.9200	1.0859/1.0801	0.9268/0.9200	0.8400	1.562	2.062	2.562	3.062	3.562	1.437	1.937	2.437	2.937	3.437	1.000	1.500	2.000	2.500	3.000
1.291	1.2203/1.2165	1.0383/1.0335	1.2227/1.2165	1.0407/1.0335	0.9420	1.768	2.330	2.893	3.455	4.018	1.625	2.187	2.750	3.312	3.875	1.125	1.687	2.250	2.812	3.375
1.416	1.3454/1.3415	1.1634/1.1585	1.3479/1.3415	1.1659/1.1585	1.0670	1.893	2.518	3.143	3.768	4.393	1.750	2.375	3.000	3.625	4.250	1.250	1.875	2.500	3.125	3.750
1.694	1.6110/1.6067	1.3986/1.3933	1.6137/1.6067	1.4013/1.3933	1.2866	2.250	3.000	3.750	4.500	5.250	2.083	2.833	3.583	4.333	5.083	1.500	2.250	3.000	3.750	4.500
0.426	0.4076/0.4058	0.3629/0.3601	0.4090/0.4058	0.3643/0.3601	0.3372	0.286	0.348	0.411	0.437	0.536	0.250	0.312	0.375	0.437	0.500	0.125	0.187	0.250	0.312	0.375
0.580	0.5539/0.5517	0.4875/0.4843	0.5556/0.5517	0.4892/0.4843	0.4506	0.487	0.612	0.737	0.862	0.987	0.434	0.559	0.684	0.809	0.934	0.250	0.375	0.500	0.625	0.750
0.718	0.6920/0.6897	0.6256/0.6223	0.6937/0.6897	0.6273/0.6223	0.5886	0.612	0.799	0.987	1.174	1.362	0.559	0.747	0.934	1.122	1.309	0.375	0.562	0.750	0.937	1.125
0.909	0.8735/0.8708	0.7830/0.7793	0.8754/0.8708	0.7849/0.7793	0.7336	0.821	1.071	1.321	1.571	1.821	0.750	1.000	1.250	1.500	1.750	0.500	0.750	1.000	1.250	1.500
0.986	0.9506/0.9478	0.8601/0.8563	0.9524/0.9478	0.8619/0.8563	0.8106	0.946	1.258	1.571	1.883	2.196	0.875	1.187	1.500	1.812	2.125	0.625	0.937	1.250	1.562	1.875
1.126	1.0898/1.0868	0.9993/0.9953	1.0918/1.0868	1.0013/0.9953	0.9496	1.071	1.446	1.821	2.196	2.571	1.000	1.375	1.750	2.125	2.500	0.750	1.125	1.500	1.875	2.250
1.274	1.2378/1.2348	1.1473/1.1433	1.2399/1.2348	1.1494/1.1433	1.0976	1.196	1.634	2.071	2.509	2.946	1.125	1.562	2.000	2.437	2.875	0.875	1.312	1.750	2.187	2.625
1.416	1.3705/1.3673	1.2551/1.2508	1.3727/1.3673	1.2573/1.2508	1.1926	1.409	1.909	2.409	2.909	3.409	1.318	1.818	2.318	2.818	3.318	1.000	1.500	2.000	2.500	3.000
1.757	1.7118/1.7083	1.5964/1.5918	1.7141/1.7083	1.5987/1.5918	1.5336	1.660	2.284	2.909	3.534	4.159	1.568	2.193	2.818	3.443	4.068	1.250	1.875	2.500	3.125	3.750
1.989	1.9440/1.9403	1.8286/1.8238	1.9464/1.9403	1.8310/1.8238	1.7656	1.909	2.659	3.409	4.159	4.909	1.818	2.568	3.318	4.068	4.818	1.500	2.250	3.000	3.750	4.500
0.134	0.1252/0.1226	0.1014/0.0976			0.0850	0.204	0.259	0.314	0.369	0.424	0.183	0.238	0.293	0.348	0.404	0.110	0.165	0.220	0.275	0.331
0.152	0.1426/0.1399	0.1159/0.1120			0.0980	0.230	0.293	0.356	0.419	0.482	0.207	0.270	0.333	0.396	0.459	0.126	0.189	0.252	0.315	0.378
0.171	0.1605/0.1574	0.1305/0.1262			0.1106	0.259	0.329	0.400	0.471	0.542	0.233	0.303	0.374	0.445	0.516	0.142	0.212	0.283	0.354	0.425
0.194	0.1821/0.1786	0.1488/0.1441			0.1268	0.291	0.371	0.452	0.533	0.613	0.262	0.343	0.423	0.504	0.585	0.161	0.242	0.323	0.403	0.484
0.221	0.2079/0.2042	0.1709/ 0.1659			0.1468	0.328	0.421	0.513	0.606	0.698	0.297	0.389	0.482	0.574	0.667	0.185	0.277	0.370	0.462	0.555
0.249	0.2342/0.2299	0.1929/0.1874			0.1661	0.368	0.472	0.576	0.681	0.785	0.333	0.437	0.541	0.646	0.750	0.209	0.313	0.417	0.522	0.626
0.281	0.2645/0.2598	0.2185/0.2126			0.1890	0.413	0.531	0.649	0.768	0.886	0.374	0.492	0.610	0.728	0.846	0.236	0.354	0.472	0.590	0.709
0.232	0.2112/0.2136	0.1738/0.1709			0.1543	0.33	0.42	0.52	0.61	0.70	0.30	0.39	0.48	0.58	0.67	0.187	0.281	0.375	0.469	0.562
0.304	0.2790/0.2817	0.2328/0.2295			0.2090	0.42	0.55	0.67	0.80	0.92	0.38	0.51	0.63	0.76	0.88	0.250	0.375	0.500	0.625	0.750
0.367	0.3415/0.3444	0.2965/0.2920			0.2715	0.49	0.64	0.80	0.95	1.11	0.45	0.60	0.76	0.92	1.07	0.312	0.469	0.625	0.781	0.937
0.429	0.4040/0.4070	0.3583/0.3545			0.3340	0.55	0.74	0.92	1.11	1.30	0.51	0.70	0.88	1.07	1.26	0.375	0.562	0.750	0.937	1.125
0.492	0.4665/0.4697	0.4210/0.4170			0.3965	0.61	0.83	1.05	1.27	1.49	0.57	0.79	1.01	1.23	1.45	0.437	0.656	0.875	1.094	1.312
0.554	0.5290/0.5323	0.4837/0.4795			0.4590	0.67	0.92	1.17	1.42	1.67	0.63	0.88	1.13	1.38	1.63	0.500	0.750	1.000	1.250	1.500
0.617	0.5915/0.5945	0.5464/0.5420			0.5215	0.74	1.02	1.30	1.58	1.86	0.70	0.98	1.26	1.54	1.82	0.562	0.844	1.125	1.406	1.687
0.679	0.6540/0.6575	0.6090/0.6045			0.5840	0.80	1.11	1.42	1.74	2.05	0.76	1.07	1.38	1.70	2.01	0.625	0.937	1.250	1.562	1.875
0.804	0.7790/0.7827	0.7343/0.7295			0.7090	0.92	1.30	1.67	2.05	2.42	0.88	1.26	1.63	2.01	2.38	0.750	1.125	1.500	1.875	2.250
1.059	1.0314/1.0355	0.9828/0.9778			0.9556	1.19	1.69	2.19	2.69	3.19	1.15	1.65	2.15	2.65	3.15	1.000	1.500	2.000	2.500	3.000
1.261	1.1757/1.1688	1.1/4	1.0528/1.0438			1.69	2.25	2.81	3.38	3.94	1.56	2.13	2.69	3.25	3.81	1.125	1.688	2.250	2.81	3.38
1.386	1.3008/1.2938	1.3/8	1.1780/1.1688			1.81	2.44	3.06	3.69	4.31	1.69	2.31	2.94	3.56	4.19	1.250	1.875	2.500	3.13	3.75
1.511	1.4259/1.4188	1.1/2	1.3031/1.2938			1.94	2.62	3.31	4.00	4.69	1.81	2.50	3.19	3.88	4.56	1.375	2.062	2.750	3.44	4.13
1.636	1.5510/1.5438	1.5/8	1.4283/1.4188			2.06	2.81	3.56	4.31	5.06	1.94	2.69	3.44	4.19	4.94	1.500	2.250	3.000	3.75	4.50
1.761	1.6762/1.6688	1.3/4	1.5535/1.5438			2.19	3.00	3.81	4.63	5.44	2.06	2.88	3.69	4.50	5.31	1.625	2.438	3.250	4.06	4.88
1.886	1.8013/1.7938	1.7/8	1.6786/1.6688			2.31	3.19	4.06	4.94	5.81	2.19	3.06	3.94	4.81	5.69	1.750	2.625	3.500	4.38	5.25
2.011	1.9264/1.9188	2	1.8038/1.7938			2.44	3.37	4.31	5.25	6.19	2.31	3.25	4.19	5.13	6.06	1.875	2.812	3.750	4.69	5.63
2.136	2.0515/2.0438	2.1/8	1.9289/1.9188			2.56	3.56	4.56	5.56	6.56	2.44	3.44	4.44	5.44	6.44	2.000	3.000	4.000	5.00	6.00

TABELLA PER LA CONSULTAZIONE DEGLI UTENSILI DI INSTALLAZIONE DEGLI INSERTI





MC	MF	SPARK	UNC	UNF	BSW	BSF	BA	BSC	NPT	BSP	UN-8	Ref.	Ref.	Ref.
2X0.40	–	–	–	–	–	–	–	–	–	–	–	3500-HIT2	3500-TB1	3500-RT1
2.20X0.45	–	–	2GX56	–	–	–	–	–	–	–	–	3500-HIT2	3500-TB2	3500-RT1
2.50X0.45	–	–	3GX48	3GX56	–	–	#6	–	–	–	–	3500-HIT3	3500-TB3	3500-RT1
–	–	–	4GX40	4GX48	1/8X40	–	–	–	–	–	–	3500-HIT4	3500-TB4	3500-RT1
3X0.50	–	–	4GX40	4GX48	1/8X40	–	–	–	–	–	–	3500-HIT4	3500-TB4	3500-RT2
–	–	–	5GX40	–	–	–	–	–	–	–	–	3500-HIT4	3500-TB4	3500-RT1
3.50X0.60	–	–	–	–	–	–	–	–	–	–	–	3500-HIT5	3500-TB5	3500-RT2
–	–	–	6GX32	6GX40	–	–	#4	–	–	–	–	3500-HIT5	3500-TB5	3500-RT1
4X0.70	–	–	8GX32	8GX36	–	3/16X32	–	–	–	–	–	3500-HIT6	3500-TB6	3500-RT2
–	–	–	8GX32	8GX36	–	–	–	–	–	–	–	3500-HIT6	3500-TB6	3500-RT1
5X0.80	–	–	12GX24	10GX32	3/16X24	3/16X32	#1	–	–	–	–	3500-HIT8	3500-TB8	3500-RT2
–	–	–	12GX24	12GX28	–	–	–	–	–	–	–	3500-HIT8	3500-TB8	3500-RT2
6X1.00	–	–	1/4X20	1/4X28	1/4X20	1/4X26	#0	1/4X26	–	–	–	3500-HIT9	3500-TB9	3500-RT2
7X1.00	–	–	5/16X18	–	5/16X18	5/16X22	#0	–	1/16X27	–	–	3500-HIT10	3500-TB11	3500-RT2
8X1.25	8X1.00	–	5/16X18	5/16X24	3/8X16	5/16X22	–	5/16X26	–	–	–	3500-HIT11	3500-TB12	3500-RT2
9X1.25	9X1.00	10X1.00	3/8X16	3/8X24	–	3/8X20	–	3/8X26	–	–	–	3500-HIT13	3500-TB12	3500-RT2
–	10X1.00	–	3/8X16	–	3/8X16	3/8X20	–	–	–	–	–	3500-HIT13	3500-TB12	3500-RT3
10X1.50	10X1.25	–	–	–	–	–	–	–	1/8X27	–	–	3500-HIT13	3500-TB13	3500-RT2
–	–	–	–	3/8X24	–	–	–	3/8X26	–	–	–	3500-HIT13	3500-TB13	3500-RT3
–	10X1.00	–	–	–	–	–	–	–	–	–	–	3500-HIT13	3500-TB13	3500-RT2
11X1.50	11X1.25	–	7/16X14	7/16X20	7/16X14	7/16X18	–	7/16X26	–	1/8X28	–	3500-HIT14	3500-TB14	3500-RT3
–	11X1.00	–	–	–	–	–	–	–	–	–	–	3500-HIT14	3500-TB14	3500-RT3
12X1.75	12X1.50	10X1.25	1/2X13	1/2X20	1/2X12	1/2X16	–	1/2X26	–	–	–	3500-HIT15	3500-TB15	3500-RT3
–	12X1.25	–	–	–	–	–	–	–	–	–	–	3500-HIT15	–	–
–	12X1.00	12X1.25	–	–	–	–	–	–	–	–	–	3500-HIT15	3500-TB15	3500-RT3
13X1.75	13X1.50	–	–	–	–	–	–	–	–	–	–	3500-HIT15	3500-TB15	3500-RT3
–	13X1.25	–	–	–	–	–	–	–	–	–	–	3500-HIT16	–	3500-RT3
14X2.00	14X1.50	14X1.25	9/16X12	9/16X18	9/16X12	9/16X16	–	–	–	1/4X18	–	3500-HIT16	–	3500-RT3
–	14X1.00	–	–	–	–	–	–	–	–	–	–	3500-HIT16	–	3500-RT3
15X2.00	15X1.50	–	–	–	–	–	–	–	1/4X18	–	–	3500-HIT16	–	3500-RT3
–	–	14X1.25	–	–	–	–	–	–	–	–	–	3500-HIT17	–	–
16X2.00	16X1.50	–	5/8X11	5/8X18	5/8X11	5/8X14	–	–	3/8X18	–	–	3500-HIT18	–	3500-RT3
18X2.50	18X2.00	18X1.50	3/4X10	–	3/4X10	3/4X12	–	–	–	3/8X19	–	3500-HIT20	–	3500-RT3
–	18X1.50	–	–	–	–	–	–	–	–	–	–	3500-HIT20	–	–
20X2.50	20X2.00	–	–	3/4X16	–	–	–	–	–	–	–	3500-HIT21	–	3500-RT3
–	20X1.50	–	–	–	–	–	–	–	–	–	–	3500-HIT21	–	3500-RT3
22X2.50	22X2.00	–	7/8X9	7/8X14	7/8X9	7/8X11	–	–	1/2X14	–	–	3500-HIT22	–	3500-RT3
–	22X1.50	–	–	–	–	–	–	–	–	–	–	3500-HIT22	–	3500-RT3
24X3.00	24X2.00	–	1X8	1X12	1X8	1X10	–	–	–	1/2X14	–	3500-HIT23	–	3500-RT3
–	24X1.50	–	–	1X14	–	–	–	–	–	5/8X14	–	3500-HIT23	–	3500-RT3
–	26X1.50	–	–	–	–	–	–	–	–	–	–	3500-HIT24	–	3500-RT4
27X3.00	27X2.00	–	–	–	–	–	–	–	–	–	–	3500-HIT24	–	3500-RT4
–	27X1.50	–	–	–	–	–	–	–	–	–	–	3500-HIT24	–	3500-RT4
–	28X1.50	–	–	–	–	–	–	–	–	–	–	3500-HIT24	–	3500-RT4
30X3.50	30X2.00	–	1.1/8X7	1.1/8X12	–	–	–	–	–	–	–	3500-HIT25	–	3500-RT4
–	30X3.00	–	1.1/8-7	1.1/8-12	–	–	–	–	–	–	1.1/8X8	3500-HIT25	–	–
–	30X1.50	–	1.1/4X7	1.1/4X12	–	–	–	–	–	–	–	3500-HIT26	–	3500-RT4
33X3.50	33X2.00	–	1.3/8X6	1.3/8X12	–	–	–	–	–	3/4X14	1.1/4X8	3500-HIT26	–	3500-RT4
–	–	–	1.3/8-6	1.3/8-12	–	–	–	–	1X11.5	7/8X14	1.3/8X8	3500-HIT27	–	–
–	–	–	–	–	–	–	–	–	–	1X11	–	3500-HIT27	–	–
36X4.00	36X3.00	–	1.1/2X6	1.1/2X12	–	–	–	–	–	–	1.1/2X8	3500-HIT28	–	3500-RT4
39X4.00	36X2.00	–	–	–	–	–	–	–	–	–	–	3500-HIT28	–	3500-RT4
–	36X1.50	–	–	–	–	–	–	–	–	–	–	3500-HIT28	–	3500-RT4
42X4.50	–	–	–	–	–	–	–	–	–	–	1.5/8X8	3500-HIT28	–	–
–	44X3.00	–	–	–	–	–	–	–	–	–	1.3/4X8	3500-HIT28	–	–
48X5.00	–	–	–	–	–	–	–	–	–	–	1.7/8X8	3500-HIT30	–	–
–	50X2.00	–	–	–	–	–	–	–	–	–	2X8	3500-HIT30	–	–

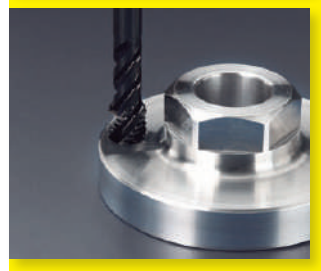


INSERTI DI BLOCAGGIO CON CHIAVE

MS51831F, MILITARY SPECIFICATION

Gli inserti di sicurezza Loksert sono facili da installare e il loro assemblaggio è ideale per sostituire filettature danneggiate o usurate, praticamente in qualsiasi materiale: ferroso, non ferroso e non metallico. Sono realizzati in acciaio al carbonio o acciaio inossidabile di altissima qualità. Un inserto Loksert viene fornito con le linguette di serraggio preassemblate. Le filettature di serraggio posizionate strategicamente posizionano l'inserto alla profondità corretta rispetto alla superficie del materiale di alloggio. I Loksert sono consigliati per la riparazione e la creazione di filettature in una vasta gamma di applicazioni, tra cui ferriere e fonderie, e sono particolarmente raccomandati per casi di elevata usura e vibrazioni, come l'estrazione mineraria, edilizia e attrezzatura ad alto movimento.











Caratteristiche e Vantaggi

- Si installano utilizzando maschi e punte standard.
- Solidi, sono costituiti da linguette di serraggio che garantiscono un'elevata sicurezza meccanica contro la rotazione.
- Installazione semplice. Inserire manualmente l'inserto nel foro e, una volta installato, toccare le linguette nelle fessure dell'inserto.
- Consigliati per l'uso su un'ampia gamma di materiali di alloggio.
- Impossibile mescolare i filettature durante l'installazione.
- Nell'occorrenza semplice processo di estrazione.
- Senza perno di arresto da tagliare e rimuovere.
- Disponibili in misure metriche, pollici e per candele.
- Disponibili a parete sottile ed a parete rinforzata.

M/MF	Metrica e metrica fine	UNC	Filettatura Americana UNC	UNF	Filettatura Americana fine UNF
	Inserto di sicurezza	PD	Inserto a parete sottile	PR	Inserto a parete rinforzata
AC	Inserto in acciaio al carbonio	INOX	Inserto in acciaio inossidabile	...X	Codice famiglia

Filettatura **interna** dell'inserto

Filettatura **esterna** dell´inserto

Passo in mm.

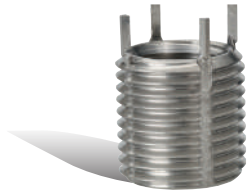
Lunghezza dell´inserto

INSERTI DI BLOCAGGIO

M MF | M/MF | UNC/UNF | PD | ...TW







				AC		INOX	
			Ø		€		€
M 5 x 0.80	8 x 1.25	8.00	6.90	3620-5.00TW	6,17	3720-5.00TW	13,46
M 6 x 1.00	10 x 1.25	10.00	8.80	3620-6.00TW	6,57	3720-6.00TW	13,73
M 8 x 1.00	12 x 1.25	12.00	10.80	3621-8.00TW	8,79	3721-8.00TW	14,63
M 8 x 1.25	12 x 1.25	12.00	10.80	3620-8.00TW	7,40	3720-8.00TW	14,26
M 10 x 1.25	14 x 1.50	14.00	12.80	3621-10.00TW	10,97	3721-10.00TW	16,79
M 10 x 1.50	14 x 1.50	14.00	12.80	3620-10.00TW	10,87	3720-10.00TW	16,63
M 12 x 1.25	16 x 1.50	16.00	14.75	3621-12.00TW	13,58	3721-12.00TW	21,44
M 12 x 1.75	16 x 1.50	16.00	14.75	3620-12.00TW	13,35	3720-12.00TW	20,93

UNC | UNC

			Ø		€		€
UNC (J) Nº10 - 24	5/16 x 18	7.87	6.90	3632-10GTW	4,63	3732-10GTW	11,64
UNC (J) 1/4 - 20	3/8 x 16	9.40	8.40	3632-1/4TW	4,95	3732-1/4TW	12,78
UNC (J) 5/16 - 18	7/16 x 14	10.92	10.10	3632-5/16TW	5,28	3732-5/16TW	14,23
UNC (J) 3/8 - 16	1/2 x 13	12.70	11.50	3632-3/8TW	5,92	3732-3/8TW	14,63
UNC (J) 7/16 - 14	9/16 x 12	14.22	13.00	3632-7/16TW	7,68	3732-7/16TW	17,79
UNC (J) 1/2 - 13	5/8 x 11	15.75	14.75	3632-1/2TW	8,96	3732-1/2TW	20,52

UNF | UNF

			Ø		€		€
UNF (J) Nº10 - 32	5/16 x 18	7.87	6.90	3634-10GTW	4,63	3734-10GTW	11,64
UNF (J) 1/4 - 28	3/8 x 16	9.40	8.40	3634-1/4TW	4,95	3734-1/4TW	12,78
UNF (J) 5/16 - 24	7/16 x 14	10.92	10.10	3634-5/16TW	5,28	3734-5/16TW	14,23
UNF (J) 3/8 - 24	1/2 x 13	12.70	11.50	3634-3/8TW	5,92	3734-3/8TW	14,63
UNF (J) 7/16 - 20	9/16 x 12	14.22	13.00	3634-7/16TW	7,68	3734-7/16TW	17,79
UNF (J) 1/2 - 20	5/8 x 11	15.75	14.75	3634-1/2TW	8,96	3734-1/2TW	20,52

1 Forare



2 Filettare



3 Installare



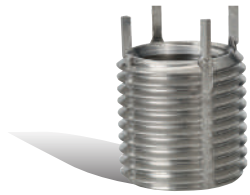
4 Nascondere linguette



M MF | M/MF | PR | ...HD







					AC		INOX	
				Ø		€		€
M	**4 x 0.70**	8 x 1.25	8.00	6.90	**3620-4.00HD**	**11,68**	**3720-4.00HD**	**15,29**
M	**5 x 0.80**	10 x 1.25	10.00	8.80	**3620-5.00HD**	**6,80**	**3720-5.00HD**	**16,47**
M	**6 x 1.00**	12 x 1.25	12.00	10.80	**3620-6.00HD**	**7,10**	**3720-6.00HD**	**16,61**
M	8 x 1.00	14 x 1.50	14.00	12.80	**3621-8.00HD**	**8,97**	**3721-8.00HD**	**17,41**
M	**8 x 1.25**	14 x 1.50	14.00	12.80	**3620-8.00HD**	**7,54**	**3720-8.00HD**	**17,41**
M	10 x 1.25	16 x 1.50	16.00	14.75	**3621-10.00HD**	**11,07**	**3721-10.00HD**	**20,15**
M	**10 x 1.50**	16 x 1.50	16.00	14.75	**3620-10.00HD**	**11,07**	**3720-10.00HD**	**19,80**
M	12 x 1.25	18 x 1.50	18.00	16.75	**3621-12.00HD**	**13,85**	**3721-12.00HD**	**21,86**
M	**12 x 1.75**	18 x 1.50	18.00	16.75	**3620-12.00HD**	**13,80**	**3720-12.00HD**	**21,86**
M	14 x 1.50	20 x 1.50	20.00	18.75	**3621-14.00HD**	**16,61**	**3721-14.00HD**	**25,00**
M	**14 x 2.00**	20 x 1.50	20.00	18.75	**3620-14.00HD**	**21,36**	**3720-14.00HD**	**30,71**
M	16 x 1.50	22 x 1.50	22.00	20.50	**3621-16.00HD**	**19,81**	**3721-16.00HD**	**28,23**
M	**16 x 2.00**	22 x 1.50	22.00	20.50	**3620-16.00HD**	**22,45**	**3720-16.00HD**	**33,86**
M	18 x 1.50	24 x 1.50	24.00	22.50	**3621-18.00HD**	**29,07**	**3721-18.00HD**	**43,61**
M	20 x 1.50	30 x 2.00	30.00	28.00	**3621-20.00HD**	**35,08**	**3721-20.00HD**	**51,73**
M	**20 x 2.50**	30 x 2.00	30.00	28.00	**3620-20.00HD**	**41,93**	**3720-20.00HD**	**62,40**
M	22 x 1.50	32 x 2.00	32.00	30.00	**3621-22.00HD**	**41,20**	**3721-22.00HD**	**61,79**
M	24 x 2.00	33 x 2.00	33.00	31.00	**3621-24.00HD**	**62,75**	**3721-24.00HD**	**94,12**
M	**24 x 3.00**	33 x 2.00	33.00	31.00	**3620-24.00HD**	**76,32**	**3720-24.00HD**	**113,58**

PD — Inserto a parete sottile

PR — Inserto a parete rinforzata

AC — Inserto in acciaio al carbonio

INOX — Inserto in acciaio inossidabile

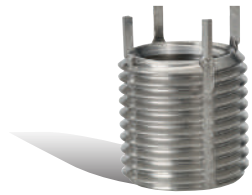


INSERTI DI BLOCAGGIO

UNC | UNF | UNC/UNF | PR | ...HD







				AC		INOX	
			Ø		€		€
UNC (J) Nº8 - 32	5/16x18	7.87	6.90	3632-8GHD	6,39	3732-8GHD	12,78
UNC (J) Nº10 - 24	3/8x16	7.87	8.40	3632-10GHD	4,63	3732-10GHD	11,64
UNC (J) 1/4 - 20	7/16x14	9.40	10.10	3632-1/4HD	4,95	3732-1/4HD	12,78
UNC (J) 5/16 - 18	1/2x13	10.92	11.50	3632-5/16HD	5,27	3732-5/16HD	14,31
UNC (J) 3/8 - 16	9/16x12	12.70	13.00	3632-3/8HD	5,91	3732-3/8HD	15,17
UNC (J) 7/16 - 14	5/8x11	15.75	14.75	3632-7/16HD	7,67	3732-7/16HD	22,04
UNC (J) 1/2 - 13	3/4x16	15.75	17.75	3632-1/2HD	8,96	3732-1/2HD	22,68
UNC (J) 9/16 - 12	3/4x16	20.57	17.75	3632-9/16HD	12,30	3732-9/16HD	24,02
UNC (J) 5/8 - 11	7/8x14	22.10	21.00	3632-5/8HD	14,23	3732-5/8HD	27,31
UNC (J) 3/4 - 10	1-1/8x12	28.45	27.00	3632-3/4HD	20,29	3732-3/4HD	35,55
UNC (J) 7/8 - 9	1-1/4x12	31.75	30.00	3632-7/8HD	26,36	3732-7/8HD	55,57
UNC (J) 1 - 8	1-3/8x12	34.80	33.25	3632-1HD	53,34	3732-1HD	112,01
UNC (J) 1.1/8 - 7	1-1/2x12	41.15	36.50	3632-1.1/8HD	255,80	3732-1.1/8HD	-
UNC (J) 1.1/4 - 7	1-5/8x12	45.97	39.50	3632-1.1/4HD	318,24	3732-1.1/4HD	-
UNC (J) 1.1/2 - 6	1-7/8x12	50.80	46.00	3632-1.1/2HD	552,27	3732-1.1/2HD	-

			Ø		€		€
UNF (J) Nº10 - 32	3/8x16	7.87	8.40	3634-10GHD	4,63	3734-10GHD	11,64
UNF (J) 1/4 - 28	7/16x14	7.87	10.10	3634-1/4HD	4,95	3734-1/4HD	12,78
UNF (J) 5/16 - 24	1/2x13	9.40	11.50	3634-5/16HD	5,27	3734-5/16HD	14,31
UNF (J) 3/8 - 24	9/16x12	10.92	13.00	3634-3/8HD	5,91	3734-3/8HD	15,17
UNF (J) 7/16 - 20	5/8x11	12.70	14.75	3634-7/16HD	7,67	3734-7/16HD	22,04
UNF (J) 1/2 - 20	3/4x16	15.75	17.75	3634-1/2HD	8,96	3734-1/2HD	22,68
UNF (J) 9/16 - 18	3/4x16	15.75	17.75	3634-9/16HD	12,30	3734-9/16HD	24,02
UNF (J) 5/8 - 18	7/8x14	20.57	21.00	3634-5/8HD	14,23	3734-5/8HD	27,31
UNF (J) 3/4 - 16	1-1/8x12	22.10	27.00	3634-3/4HD	20,29	3734-3/4HD	35,55
UNF (J) 7/8 - 14	1-1/4x12	28.45	30.00	3634-7/8HD	26,36	3734-7/8HD	55,57
UNF (J) 1 - 12	1-3/8x12	31.75	33.25	3634-1HD	53,34	3734-1HD	112,01
UNF (J) 1 - 14	1-3/8x12	34.80	33.25	3635-1HD	96,81	3735-1HD	-
UNF (J) 1.1/8 - 12	1-1/2x12	41.15	36.50	3634-1.1/8HD	255,80	3734-1.1/8HD	-
UNF (J) 1.1/4 - 12	1-5/8x12	45.97	39.50	3634-1.1/4HD	318,24	3734-1.1/4HD	-
UNF (J) 1.1/2 - 12	1-7/8x12	45.97	46.00	3634-1.1/2HD	552,27	3734-1.1/2HD	-

UTENSILI DI INSTALLAZIONE

M MF — M/MF








	PD	...TT	PR	...HT	PD	PR	...T
		€		€			€
M 4	-	-	3600-4.00HT	98,32	-		-
M 5	3600-5.00TT	99,89	3600-5.00HT	99,89	3600-190T		55,81
M 6	3600-6.00TT	102,75	3600-6.00HT	102,75	3600-250T		51,12
M 8	3600-8.00TT	106,68	3600-8.00HT	106,68	3600-312T		61,30
M 10	3600-10.00TT	115,29	3600-10.00HT	115,29	3600-375T		61,30
M 12	3600-12.00TT	123,63	3600-12.00HT	123,63	3600-500T		67,02
M 14	-	-	3600-14.00HT	134,58	-		-
M 16	-	-	3600-16.00HT	139,27	3600-625T		67,02
M 18	-	-	3600-18.00HT	142,92	-		-
M 20	-	-	3600-20.00HT	148,40	3600-875T		79,02
M 22	-	-	3600-22.00HT	153,08	3600-875T		79,02
M 24	-	-	3600-24.00HT	169,27	3600-875T		79,02





UNC UNF — UNC/UNF







		€		€		€
8G	-		3600-8GHT	117,39	-	
10G	3600-10GTT	106,63	3600-10GHT	117,39	3600-190T	55,81
1/4	3600-1/4TT	110,41	3600-1/4HT	122,33	3600-250T	51,12
5/16	3600-5/16TT	122,33	3600-5/16HT	122,33	3600-312T	61,30
3/8	3600-3/8TT	139,35	3600-3/8HT	129,87	3600-375T	61,30
7/16	3600-7/16TT	128,72	3600-7/16HT	133,00	3600-375T	61,30
1/2	3600-1/2TT	133,00	3600-1/2HT	145,27	3600-500T	67,02
9/16	-	-	3600-9/16HT	145,27	3600-500T	67,02
5/8	-	-	3600-5/8HT	167,71	3600-625T	67,02
3/4	-	-	3600-3/4HT	194,04	3600-875T	79,02
7/8	-	-	3600-7/8HT	205,51	3600-875T	79,02
1	-	-	3600-1HT	203,96	3600-100T	79,02
1-1/8	-	-	3600-1.1/8HT	571,68	-	-
1-1/4	-	-	3600-1.1/4HT	618,10	-	-
1-1/2	-	-	3600-1.1/2HT	727,13	-	-







KIT DI INSERTI DI BLOCAGGIO

M MF | M/MF | UNC/UNF | AC | INOX | PD



				AC €		INOX €		mm			
M 5 x 0.80	8.00 x 1.25	8.00	3620-5.00TWK	153,72	3720-5.00TWK	185,79	5	6.9	M03M08X1,25	3600-190T
M 6 x 1.00	10.00 x 1.25	10.00	3620-6.00TWK	194,76	3720-6.00TWK	226,30	5	8.8	M03M10X1,25	3600-250T
M 8 x 1.25	12.00 x 1.25	12.00	3620-8.00TWK	246,73	3720-8.00TWK	276,09	5	10.8	M03M12X1,25	3600-312T
M 10 x 1.50	14.00 x 1.50	14.00	3620-10.00TWK	306,75	3720-10.00TWK	327,25	5	12.8	M03M14X1,50	3600-375T
M 12 x 1.75	16.00 x 1.50	16.00	3620-12.00TWK	326,61	3720-12.00TWK	351,17	5	14.75	M03M16X1,50	3600-500T

				AC €		INOX €		mm			
MF 8 x 1.00	12.00 x 1.25	12.00	3621-8.00TWK	246,73	3721-8.00TWK	276,09	5	10.8	M03M12X1,25	3600-312T
MF 10 x 1.25	14.00 x 1.50	14.00	3621-10.00TWK	306,75	3721-10.00TWK	327,25	5	12.8	M03M14X1,50	3600-375T
MF 12 x 1.25	16.00 x 1.50	16.00	3621-12.00TWK	333,40	3721-12.00TWK	357,95	5	14.75	M03M16X1,50	3600-500T

				AC €		INOX €		mm			
UNC Nº10 x 24	UNC 5/16 x 18	7,87	3632-10GTWK	159,48	3732-10GTWK	206,61	5	6.90	M03NC5/16X18	3600-190T
UNC 1/4 x 20	UNC 3/8 x 16	9,40	3632-1/4TWK	182,36	3732-1/4TWK	230,60	5	8.40	M03NC3/8X16	3600-250T
UNC 5/16 x 18	UNC 7/16 x 14	10,92	3632-5/16TWK	240,74	3732-5/16TWK	290,15	5	10.10	M03NC7/16X14	3600-312T
UNC 3/8 x 16	UNC 1/2 x 13	12,70	3632-3/8TWK	209,37	3732-3/8TWK	258,28	5	11.50	M03NC1/2X13	3600-375T
UNC 7/16 x 14	UNC 9/16 x 12	14,22	3632-7/16TWK	271,85	3732-7/16TWK	318,71	5	13.00	M03NC9/16X12	3600-375T
UNC 1/2 x 13	UNC 5/8 x 11	15,75	3632-1/2TWK	301,94	3732-1/2TWK	353,21	5	14.75	M03NC5/8X11	3600-500T

				AC €		INOX €		mm			
UNF Nº10 x 32	UNC 5/16 x 18	7,87	3634-10GTWK	159,48	3734-10GTWK	206,61	5	6.90	M03NC5/16X18	3600-190T
UNF 1/4 x 28	UNC 3/8 x 16	9,40	3634-1/4TWK	182,36	3734-1/4TWK	230,60	5	8.40	M03NC3/8X16	3600-250T
UNF 5/16 x 24	UNC 7/16 x 14	10,92	3634-5/16TWK	244,27	3734-5/16TWK	293,67	5	10.10	M03NC7/16X14	3600-312T
UNF 3/8 x 24	UNC 1/2 x 13	12,70	3634-3/8TWK	209,37	3734-3/8TWK	258,28	5	11.50	M03NC1/2X13	3600-375T
UNF 7/16 x 20	UNC 9/16 x 12	14,22	3634-7/16TWK	271,85	3734-7/16TWK	318,71	5	13.00	M03NC9/16X12	3600-375T
UNF 1/2 x 20	UNC 5/8 x 11	15,75	3634-1/2TWK	301,94	3734-1/2TWK	353,21	5	14.75	M03NC5/8X11	3600-500T

KIT DI INSERTI DI BLOCAGGIO

M
MF

M/MF | UNC/UNF | AC | INOX | PR

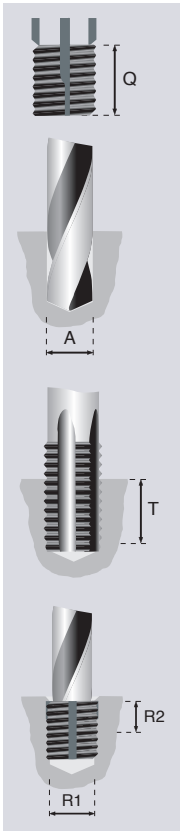


				AC			INOX				
				€			€		mm		
M 5 x 0.80	10.00 x 1.25	10.00	3620-5.00HDK	202,47	3720-5.00HDK	249,34	5	8.80	M03M10X1,25	3600-190T
M 6 x 1.00	12.00 x 1.25	12.00	3620-6.00HDK	239,51	3720-6.00HDK	289,17	5	10.80	M03M12X1,25	3600-250T
M 8 x 1.25	14.00 x 1.50	14.00	3620-8.00HDK	301,70	3720-8.00HDK	352,50	5	12.80	M03M14X1,25	3600-312T
M 10 x 1.50	16.00 x 1.50	16.00	3620-10.00HDK	329,94	3720-10.00HDK	375,12	5	14.75	M03M16X1,50	3600-375T
M 12 x 1.75	18.00 x 1.50	18.00	3620-12.00HDK	487,18	3720-12.00HDK	522,74	5	16.75	M03M18X1,50	3600-500T
M 16 x 2.00	22.00 x 1.50	22.00	3620-16.00HDK	654,47	3720-16.00HDK	684,03	5	20.50	M03M22X1,50	3600-625T

				AC			INOX			
				€			€	mm		
M 8 x 1.00	14.00 x 1.50	14.00	3621-8.00HDK	301,70	3721-8.00HDK	352,50	5	12.80	M03M14X1,50	3600-312T
M 10 x 1.25	16.00 x 1.50	16.00	3621-10.00HDK	329,94	3721-10.00HDK	375,12	5	14.75	M03M16X1,50	3600-375T
M 12 x 1.25	18.00 x 1.50	18.00	3621-12.00HDK	487,18	3721-12.00HDK	522,74	5	16.75	M03M18X1,50	3600-500T
M 16 x 1.50	22.00 x 1.50	22.00	3621-16.00HDK	654,47	3721-16.00HDK	684,03	5	20.50	M03M22X1,50	3600-625T

				AC			INOX			
				€			€	mm		
UNC Nº10 x 24	UNC 3/8 x 16	7.87	3632-10GHDK	191,71	3732-10GHDK	253,63	5	8.40	M03NC3/8X16	3600-190T
UNC 1/4 x 20	UNC 7/16 x 14	9.40	3632-1/4HDK	236,82	3732-1/4HDK	303,18	5	10.10	M03NC7/16X14	3600-250T
UNC 5/16 x 18	UNC 1/2 x 13	10.92	3632-5/16HDK	212,71	3732-5/16HDK	283,52	5	11.50	M03NC1/2X13	3600-312T
UNC 3/8 x 16	UNC 9/16 x 12	12.70	3632-3/8HDK	275,05	3732-3/8HDK	348,64	5	13.00	M03NC9/16X12	3600-375T
UNC 7/16x14	UNC 5/8 x 11	14.22	3632-7/16HDK	263,42	3732-7/16HDK	283,29	5	14.75	M03NC5/8X11	3600-375T
UNC 1/2x13	UNF 3/4 x 16	15.75	3632-1/2HDK	400,76	3732-1/2HDK	431,01	5	17.75	M03NF3/4X16	3600-500T
UNC 9/16x12	UNF 3/4 x 16	20.57	3632-9/16HDK	400,76	3732-9/16HDK	431,01	5	17.75	M03NF3/4X16	3600-500T
UNC 5/8x11	UNF 7/8 x 14	22.10	3632-5/8HDK	541,96	3732-5/8HDK	601,61	5	21.00	M03NF7/8X14	3600-625T

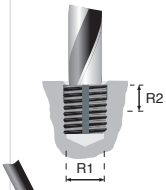
				AC			INOX			
				€			€	mm		
UNF Nº10 x 32	UNC 3/8 x 16	7.87	3634-10GHDK	191,71	3734-10GHDK	253,63	5	8.40	M03NC3/8X16	3600-190T
UNF 1/4 x 28	UNC 7/16 x 14	9.40	3634-1/4HDK	236,82	3734-1/4HDK	303,18	5	10.10	M03NC7/16X14	3600-250T
UNF 5/16 x 24	UNC 1/2 x 13	10.92	3634-5/16HDK	212,71	3734-5/16HDK	283,52	5	11.50	M03NC1/2X13	3600-312T
UNF 3/8 x 24	UNC 9/16 x 12	12.70	3634-3/8HDK	275,05	3734-3/8HDK	348,64	5	13.00	M03NC9/16X12	3600-375T
UNF 7/16 x 20	UNC 5/8 x 11	14.22	3634-7/16HDK	306,84	3734-7/16HDK	374,44	5	14.75	M03NC5/8X11	3600-375T
UNF 1/2 x 20	UNF 3/4 x 16	15.75	3634-1/2HDK	452,51	3734-1/2HDK	514,84	5	17.75	M03NF3/4X16	3600-500T
UNF 9/16 x 18	UNF 3/4 x 16	20.57	3634-9/16HDK	470,90	3734-9/16HDK	529,07	5	17.75	M03NF3/4X16	3600-500T
UNF 5/8 x 18	UNF 7/8 x 14	22.10	3634-5/8HDK	541,96	3734-5/8HDK	601,61	5	21.00	M03NF7/8X14	3600-625T



	Filettatura Interna	Filettatura Esterna			Maschio				
	Tol 6H mm	Tol 6G mm	Q mm	Ut. di installazione	A mm	Tol 6H mm	T Min. mm	R1 mm	R2 mm
PARETE SOTTILE	M 5 X 0.8	M8 X 1.25	8.0	3600-190T	6.9	M8 X 1.25	9.5	5.50	4.00
	M 6 X 1.0	M10 X 1.25	10.0	3600-250T	8.8	M10 x 1.25	11.5	7.50	4.75
	M 8 X 1.25	M12 x 1.25	12.0	3600-312T	10.8	M12 x 1.25	13.5	9.50	4.75
	M 8 X 1.0	M12 x 1.25	12.0	3600-312T	10.8	M12 x 1.25	13.5	9.50	4.75
	M 10 X 1.5	M14 x 1.5	14.0	3600-375T	12.8	M14 x 1.5	15.5	11.50	4.75
	M 10 X 1.25	M14 x 1.5	14.0	3600-375T	12.8	M14 x 1.5	15.5	11.50	4.75
	M 12 X 1.75	M16 x 1.5	16.0	3600-500T	14.75	M16 x 1.5	17.5	13.50	4.75
	M 12 X 1.25	M16 x 1.5	16.0	3600-500T	14.75	M16 x 1.5	17.5	13.50	4.75
PARETE RINFORZATA	M 4 X 0.7	M8 X 1.25	8.0	3600-4.00HT	6.9	M8 X 1.25	9.5	5.50	4.00
	M 5 X 0.8	M10 X 1.25	10.0	3600-190T	8.8	M10 x 1.25	12.5	7.50	4.75
	M 6 X 1.0	M12 x 1.25	12.0	3600-250T	10.8	M12 x 1.25	14.5	9.50	4.75
	M 8 X 1.25	M14 x 1.5	14.0	3600-312T	12.8	M14 x 1.5	16.5	11.50	4.75
	M 8 X 1.0	M14 x 1.5	14.0	3600-312T	12.8	M14 x 1.5	16.5	11.50	4.75
	M 10 X 1.5	M16 x 1.5	16.0	3600-375T	14.75	M16 x 1.5	18.5	13.50	4.75
	M 10 X 1.25	M16 x 1.5	16.0	3600-375T	14.75	M16 x 1.5	18.5	13.50	4.75
	M 12 X 1.75	M18 X 1.5	18.0	3600-500T	16.75	M18 X 1.5	20.5	15.50	4.75
	M 12 X 1.25	M18 X 1.5	18.0	3600-500T	16.75	M18 X 1.5	20.5	15.50	4.75
	M 14 X 2.0	M20 X 1.5	20.0	3600-14.00HT	18.75	M20 X 1.5	22.5	17.50	4.75
	M 14 X 1.5	M20 X 1.5	20.0	3600-14.00HT	18.75	M20 X 1.5	22.5	17.50	4.75
	M 16 X 2.0	M22 X 1.5	22.0	3600-625T	20.5	M22 X 1.5	24.5	17.75	6.35
	M 16 X 1.5	M22 X 1.5	22.0	3600-625T	20.5	M22 X 1.5	24.5	17.75	6.35
	M 18 X 1.5	M24 X 1.5	24.0	3600-18.00HT	22.5	M24 X 1.5	26.5	19.75	6.35
	M 20 X 2.5	M30 X 2.0	30.0	3600-875T	28.0	M30 X 2.0	34.5	25.75	6.35
	M 20 X 1.5	M30 X 2.0	30.0	3600-875T	28.0	M30 X 2.0	34.5	25.75	6.35
	M 22 X 1.5	M32 X 2.0	32.0	3600-22.00HT	30.0	M32 X 2.0	36.5	27.75	6.35
	M 24 X 3.0	M33 X 2.0	33.0	3600-24.00HT	31.0	M33 X 2.0	37.5	28.75	6.35
	M 24 X 2.0	M33 X 2.0	33.0	3600-24.00HT	31.0	M33 X 2.0	37.5	28.75	6.35

	Tol 6H mm	Tol 6G mm	Q mm	Ut. di installazione	A mm	Tol 2B "	T Min. mm	R1 mm	R2 mm
PARETE SOTTILE	Nº10 X 24	5/16 X 18	7.87	3600-190T	6.90	UNC 5/16X18	9.40	5.56	3.20
	Nº10 X 32	5/16 X 18	7.87	3600-190T	6.90	UNC 5/16X18	9.40	5.56	3.20
	1/4 X 20	3/8 X 16	9.40	3600-250T	8.40	UNC 3/8X16	10.92	7.14	4.75
	1/4 X 28	3/8 X 16	9.40	3600-250T	8.40	UNC 3/8X16	10.92	7.14	4.75
	5/16 X 18	7/16 X 14	10.92	3600-312T	10.10	UNC 7/16X14	12.70	8.73	4.75
	5/16 X 24	7/16 X 14	10.92	3600-312T	10.10	UNC 7/16X14	12.70	8.73	4.75
	3/8 X 16	1/2 X 13	12.70	3600-375T	11.50	UNC 1/2X13	14.22	10.32	4.75
	3/8 X 24	1/2 X 13	12.70	3600-375T	11.50	UNC 1/2X13	14.22	10.32	4.75
	7/16 X 14	9/16 X 12	14.22	3600-375T	13.10	UNC 9/16X12	15.75	11.91	4.75
	7/16 X 20	9/16 X 12	14.22	3600-375T	13.10	UNC 9/16X12	15.75	11.91	4.75
	1/2 X 13	5/8 X 11	15.75	3600-500T	14.75	UNC 5/8X11	17.27	13.49	4.75
	1/2 X 20	5/8 X 11	15.75	3600-500T	14.75	UNC 5/8X11	17.27	13.49	4.75
PARETE RINFORZATA	Nº8 X 32	5/16 X 18	7.87	3600-8GHT	6.90	UNC 5/16X18	9.40	5.56	3.20
	Nº10 X 24	3/8 X 16	7.87	3600-190T	8.40	UNC 3/8X16	9.40	7.14	3.20
	Nº10 X 32	3/8 X 16	7.87	3600-190T	8.40	UNC 3/8X16	9.40	7.14	3.20
	1/4 X 20	7/16 X 14	9.40	3600-250T	10.10	UNC 7/16X14	10.92	8.73	4.75
	1/4 X 28	7/16 X 14	9.40	3600-250T	10.10	UNC 7/16X14	10.92	8.73	4.75
	5/16 X 18	1/2 X 13	10.92	3600-312T	11.50	UNC 1/2X13	12.70	10.32	4.75
	5/16 X 24	1/2 X 13	10.92	3600-312T	11.50	UNC 1/2X13	12.70	10.32	4.75
	3/8 X 16	9/16 X 12	12.70	3600-375T	13.10	UNC 9/16X12	14.22	11.91	4.75
	3/8 X 24	9/16 X 12	12.70	3600-375T	13.10	UNC 9/16X12	14.22	11.91	4.75
	7/16 X 14	5/8 X 11	15.75	3600-375T	14.75	UNC 5/8X11	17.27	13.49	4.75
	7/16 X 20	5/8 X 11	15.75	3600-375T	14.75	UNC 5/8X11	17.27	13.49	4.75
	1/2 X 13	3/4 X 16	15.75	3600-500T	17.50	UNF 3/4X16	17.27	16.67	4.75
	1/2 X 20	3/4 X 16	15.75	3600-500T	17.50	UNF 3/4X16	17.27	16.67	4.75
	9/16 X 12	3/4 X 16	20.57	3600-500T	17.50	UNF 3/4X16	23.88	16.67	4.75
	9/16 X 18	3/4 X 16	20.57	3600-500T	17.50	UNF 3/4X16	23.88	16.67	4.75
	5/8 X 11	7/8 X 14	22.10	3600-625T	21.00	UNF 7/8X14	25.40	19.84	7.90
	5/8 X 18	7/8 X 14	22.10	3600-625T	21.00	UNF 7/8X14	25.40	19.84	7.90
	3/4 X 10	1-1/8 X 12	28.45	3600-875T	27.00	UNF 1-1/8X12	33.27	24.61	7.90
	3/4 X 16	1-1/8 X 12	28.45	3600-875T	27.00	UNF 1-1/8X12	33.27	24.61	7.90
	7/8 X 9	1-1/4 X 12	31.75	3600-875T	30.00	UNF 1-1/4X12	36.58	27.75	7.90
	7/8 X 14	1-1/4 X 12	31.75	3600-875T	30.00	UNF 1-1/4X12	36.58	27.75	7.90
	1 X 8	1-3/8 X 12	34.80	3600-100T	33.25	UNF 1-3/8X12	39.62	31	7.90
	1 X 12	1-3/8 X 12	34.80	3600-100T	33.25	UNF 1-3/8X12	39.62	31	7.90
	1 X 14	1-3/8 X 12	34.80	3600-100T	33.25	UNF 1-3/8X12	39.62	31	7.90
	1-1/8 X 7	1-1/2 X 12	41.15	3600-1.1/8HT	36.50	UNF 1-1/2X12	46.74	34	7.90
	1-1/8 X 12	1-1/2 X 12	41.15	3600-1.1/8HT	36.50	UNF 1-1/2X12	46.74	34	7.90
	1-1/4 X 7	1-5/8 X 12	45.97	3600-1.1/4HT	39.75	UNF 1-5/8X12	52.32	37.25	7.90
	1-1/4 X 12	1-5/8 X 12	45.97	3600-1.1/4HT	39.75	UNF 1-5/8X12	52.32	37.25	7.90
	1-1/2 X 6	1-7/8 X 12	50.80	3600-1.1/2HT	46.00	UNF 1-7/8X12	57.91	43.50	7.90
	1-1/2 X 12	1-7/8 X 12	50.80	3600-1.1/2HT	46.00	UNF 1-7/8X12	57.91	43.50	7.90

ESTRACCIÓN



1 Forare

Forare il materiale tra le linguette e la filettatura interna alla profondità specificata.Vedere le informazioni tecniche. especificada. Consulte información técnica.



2 Piegare

Piegare le linguette verso l'interno e romperle.



3 Rimuovere

Rimuovere l'inserto utilizzando un'estrattore per viti.



4 Installare

Utilizzando la normale procedura, installare un nuovo inserto Loksert



PARETE SOTTILE E PARETE RINFORZATA				
Materiale dell´inserto	Acciaio al carbonio - C1215. Acciaio inox - AISI 303	Nº Linguette	4 linguette su inserti con filettatura interna M7 o superiore 2 linguette su inserti con filettatura interna inferiore a M7	
Linguette	AISI 302			
Tolleranze	Acciaio al carbonio – Zincato fosfato; Acciaio inox - Passivato	Tolleranza del pre-foro	6.90 - 10.80 = +0.100 / -0.025	+12.80 = +0.130 / -0.025

tapsert® by celesa

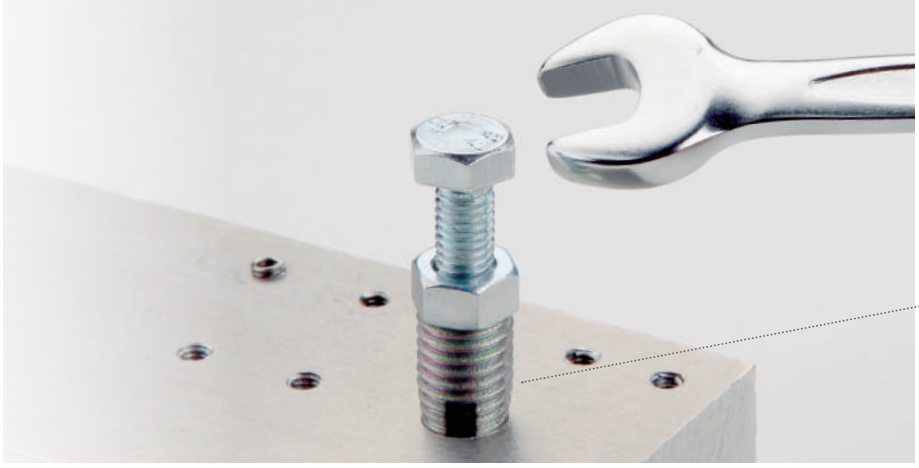


INSERTI AUTOFILETTANTI

Gli inserti TAPSERT sono inserti autofilettanti con filettatura interna ed esterna. Devono essere installati in un foro precedentemente praticato su misura indicata a catalogo. La parte frontale dell'inserto TAPSERT consiste in un cono di attacco che fa di maschio e filetta il pre-foro. La fessura dell'inserto permette di alloggiare i trucioli generati nell'operazione. Gli inserti TAPSERT sono perfetti per generare filettature molto forti in materiali a bassa resistenza dove le filettature si danneggiano facilmente.

Caratteristiche e Vantaggi

- Facile da installare su pre-fori realizzati con punte di dimensioni standard.
  Come incastonatore, viene utilizzata una vite della stessa dimensione della filettatura interna.
- Non è necessario utilizzare i maschi nell'installazione. L'inserto stesso fa la filettatura.
- L'inserto supporta carichi di compressione e trazione molto elevati.
- Consente il serraggio di coppie estremamente elevate su materiali morbidi come plastica, alluminio, legno, ecc ...
- La tolleranza della filettatura viene preservata nonostante i molteplici utilizzi dalla stessa. Bassa usura.





Filettare il Tapsert nella vite con le fessure sul fondo.
Regolare il dado in base alla lunghezza dell'inserto finché la vite è a filo con l'inserto.

INSERTI AUTOFILETTANTI CON FESSURA

M
MF

M/MF | AC | INOX



AC 302





INOX 302

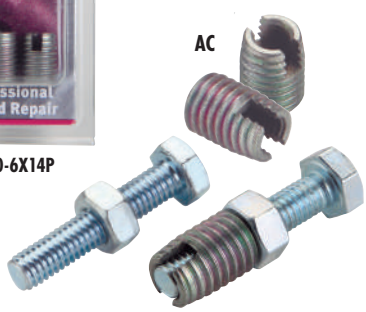


		mm	Ø	L	AC	€			INOX AISI 303	€		
						100-499	500-1999	2000-...		25-499	500-1999	2000-...
M 2.50 x 0.45	M 4.50 x 0.50	6.00	4.30	8.00	3920-2.5X6	0,48	0,44	0,40	3920-2.5X6SS	0,83	0,79	0,70
M 3 x 0.50	M 5 x 0.50	6.00	4.80	8.00	3920-3X6	0,49	0,45	0,42	3920-3X6SS	0,84	0,80	0,71
M 4 x 0.70	M 6.50 x 0.75	8.00	6.20	10.00	3920-4X8	0,51	0,49	0,46	3920-4X8SS	1,12	1,07	0,96
M 5 x 0.80	M 8 x 1.00	10.00	7.60	13.00	3920-5X10	0,64	0,61	0,57	3920-5X10SS	1,46	1,39	1,25
M 6 x 1.00	M 10 x 1.50	14.00	9.40	17.00	3920-6X14	0,82	0,78	0,70	3920-6X14SS	1,81	1,71	1,54
M 8 x 1.25	M 12 x 1.50	15.00	11.40	18.00	3920-8X15	1,00	0,95	0,86	3920-8X15SS	2,28	2,14	1,94
M 10 x 1.50	M 14 x 1.50	18.00	13.50	22.00	3920-10X18	1,45	1,38	1,25	3920-10X18SS	3,33	3,14	2,84
						25-499	500-1999	2000-...		1-499	500-1999	2000-...
M 12 x 1.75	M 16 x 1.50	22.00	15.50	26.00	3920-12X22	2,28	2,14	1,96	3920-12X22SS	4,49	4,22	3,81
M 14 x 2.00	M 18 x 1.50	24.00	17.50	28.00	3920-14X24	3,10	2,92	2,67	3920-14X24SS	5,90	5,55	5,00
M 16 x 2.00	M 20 x 1.50	22.00	19.50	26.00	3920-16X22	4,16	3,79	3,44	3920-16X22SS	7,23	6,59	5,94
						5-499	500-1999	2000-...		1-499	500-1999	2000-...
M 18 x 2.50	M 22 x 1.50	24.00	21.50	29.00	3920-18X24	6,25	5,68	5,19	3920-18X24SS	7,93	7,22	6,51
M 20 x 2.50	M 26 x 1.50	27.00	25.50	32.00	3920-20X26	7,02	6,41	5,83	3920-20X26SS	9,15	8,34	7,51
M 22 x 2.50	M 26 x 1.50	30.00	25.50	36.00	3920-22X30	8,37	7,61	6,93	3920-22X30SS	10,16	9,26	8,34
M 24 x 3.00	M 30 x 1.50	30.00	29.50	36.00	3920-24X30	10,34	9,44	8,59	3920-24X30SS	11,62	10,58	9,53



3920-6X14P

AC



		mm	Ø	L		€	AC
M 2.50 x 0.45	M 4.50 x 0.50	6.00	4.30*	8.00	3920-2.5X6P	11,72	2
M 3 x 0.50	M 5 x 0.50	6.00	4.80*	8.00	3920-3X6P	11,72	2
M 4 x 0.70	M 6.50 x 0.75	8.00	6.20*	10.00	3920-4X8P	10,65	2
M 5 x 0.80	M 8 x 1.00	10.00	7.60*	13.00	3920-5X10P	10,65	2
M 6 x 1.00	M 10 x 1.50	14.00	9.40*	17.00	3920-6X14P	10,65	2
M 8 x 1.25	M 12 x 1.50	15.00	11.40*	18.00	3920-8X15P	11,72	2
M 10 x 1.50	M 14 x 1.50	18.00	13.50*	22.00	3920-10X18P	12,78	2
M 12 x 1.75	M 16 x 1.50	22.00	15.50*	26.00	3920-12X22P	14,90	2
M 14 x 2.00	M 18 x 1.50	24.00	17.50*	28.00	3920-14X24P	15,58	2
M 16 x 2.00	M 20 x 1.50	22.00	19.50*	26.00	3920-16X22P	22,35	2

* Punta per preforatura non inclusa.

INSERTI AUTOFILETTANTI CON FESSURA

M MF | M/MF | BRASS | INOX



BRASS 302





INOX AISI 316L



		mm	Ø	L	BRASS	€			INOX AISI 316L	€		
						100-499	500-1999	2000-...		25-499	500-1999	2000-...
M 3 x 0.50	M 5 x 0.50	6.00	4.80	8.00	3920-3X6LAT	0,48	0,46	0,42	-			
M 4 x 0.70	M 6.5 x 0.75	8.00	6.20	10.00	3920-4X8LAT	0,55	0,51	0,48	3920-4X8DY	1,46	1,39	1,25
M 5 x 0.80	M 8 x 1.00	10.00	7.60	13.00	3920-5X10LAT	0,68	0,64	0,59	3920-5X10DY	1,90	1,79	1,62
M 6 x 1.00	M 10 x 1.50	14.00	9.40	17.00	3920-6X14LAT	0,86	0,82	0,76	3920-6X14DY	2,35	2,22	2,00
M 8 x 1.25	M 12 x 1.50	15.00	11.40	18.00	3920-8X15LAT	1,17	1,09	1,00	3920-8X15DY	3,23	3,05	2,75
M 10 x 1.50	M 14 x 1.50	18.00	13.50	22.00	3920-10X18LAT	2,06	1,94	1,77	-			
						25-499	500-1999	2000-...		1-499	500-1999	2000-...
M 12 x 1.75	M 16 x 1.50	22.00	15.50	26.00	3920-12X22LAT	2,64	2,49	2,27				

APPLICAZIONI:

- Legni duri
- Materiali morbidi
- Termoplastiche morbide
- Materiale agglomerati



BRASS 309

		mm	SOFT Ø	HARD Ø	L	BRASS	€		
							100-499	500-1999	2000-...
M 3 x 0.50	M 5.5 x 1.60	6.00	4.10	4.20-4.30	9.00	3925-3X6	0,88	0,83	0,79
M 4 x 0.70	M 7 x 2.50	10.00	5.10	5.20-5.30	13.00	3925-4X10	1,19	1,13	1,07
M 5 x 0.80	M 9 x 3.00	12.00	6.60	6.70-6.90	15.00	3925-5X12	1,37	1,30	1,24
M 6 x 1.00	M 10 x 4.00	14.00	7.60	7.70-7.90	17.00	3925-6X14	1,52	1,45	1,38
M 8 x 1.25	M 13 x 4.00	20.00	9.90	10.10-10.30	23.00	3925-8X20	2,08	1,97	1,88
M 10 x 1.50	M 16 x 5.00	23.00	12.40	12.60-12.80	26.00	3925-10X23	3,11	2,95	2,80
							25-499	500-1999	2000-...
M 12 x 1.75	M 19 x 5.00	26.00	15.40	15.60-15.80	30.00	3925-12X26	5,20	4,94	4,68

Materiali Duri





Materiali Morbidi





INSERTI AUTOFILETTANTI CON FESSURA

UNC | UNC | AC | INOX





AC 302





INOX 302

		mm	Ø	L	AC	€	INOX AISI 303	€
UNC	Nº4 x 40	M 5 x 0.50	6.00	4.80	8.00	3932-4GX6	1,34	3932-4GX6SS	2,47
UNC	Nº6 x 32	M 6 x 0.75	8.00	5.70	10.00	3932-6GX8	1,72	3932-6GX8SS	3,22
UNC	Nº8 x 32	M 6.50 x 0.75	8.00	6.20	10.00	3932-8GX8	2,32	3932-8GX8SS	4,19
UNC	Nº10 x 24	M 8 x 1.00	10.00	7.60	13.00	3932-10GX10	2,63	3932-10GX10SS	4,87
UNC	1/4 x 20	M 10 x 1.50	14.00	9.40	17.00	3932-1/4X14	3,22	3932-1/4X14SS	6,22
UNC	5/16 x 18	M 12 x 1.50	15.00	11.40	18.00	3932-5/16X15	4,19	3932-5/16X15SS	8,24
UNC	3/8 x 16	M 14 x 1.50	18.00	13.50	22.00	3932-3/8X18	5,92	3932-3/8X18SS	11,76
UNC	7/16 x 14	M 16 x 1.50	22.00	15.50	26.00	3932-7/16X22	8,68	3932-7/16X22SS	17,16
UNC	1/2 x 13	M 18 x 1.50	22.00	17.50	26.00	3932-1/2X22	10,93	3932-1/2X22SS	22,85
UNC	5/8 x 11	M 20 x 1.50	22.00	19.50	26.00	3932-5/8X22	12,51	3932-5/8X22SS	22,85

UNF | UNF | AC | INOX





AC 302



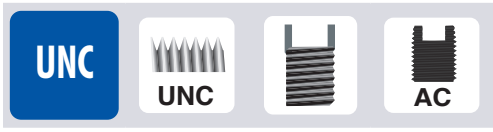


INOX 302

		mm	Ø	L	AC	€	INOX AISI 303	€
UNF	Nº10 x 32	M 8 x 1.00	10.00	7.60	13.00	3934-10GX10	2,63	3934-10GX10SS	4,87
UNF	1/4 x 28	M 10 x 1.50	14.00	9.40	17.00	3934-1/4X14	3,22	3934-1/4X14SS	6,22
UNF	5/16 x 24	M 12 x 1.50	15.00	11.40	18.00	3934-5/16X15	4,19	3934-5/16X15SS	8,24
UNF	3/8 x 24	M 14 x 1.50	18.00	13.50	22.00	3934-3/8X18	5,92	3934-3/8X18SS	11,76
UNF	7/16 x 20	M 16 x 1.50	22.00	15.50	26.00	3934-7/16X22	8,68	3934-7/16X22SS	17,16
UNF	1/2 x 20	M 18 x 1.50	22.00	17.50	26.00	3934-1/2X22	10,93	3934-1/2X22SS	22,85
UNF	5/8 x 18	M 20 x 1.50	22.00	19.50	26.00	3934-5/8X22	12,51	3934-5/8X22SS	22,85

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INSERTI AUTOFILETTANTI CON FESSURA



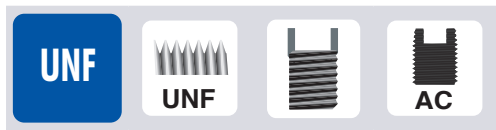
		mm	ø	L		€	AC
UNC Nº4 x 40	M 5 x 0.50	6.00	4.80*	8.00	3932-4GX6P	22,85	2
UNC Nº6 x 32	M 6 x 0.75	8.00	5.70*	10.00	3932-6GX8P	22,85	2
UNC Nº8 x 32	M 6.50 x 0.75	8.00	6.20*	10.00	3932-8GX8P	22,85	2
UNC Nº10 x 24	M 8 x 1.00	10.00	7.60*	13.00	3932-10GX10P	22,85	2
UNC 1/4 x 20	M 10 x 1.50	14.00	9.40*	17.00	3932-1/4X14P	25,85	2
UNC 5/16 x 18	M 12 x 1.50	15.00	11.40*	18.00	3932-5/16X15P	28,42	2
UNC 3/8 x 16	M 14 x 1.50	18.00	13.50*	22.00	3932-3/8X18P	31,00	2
UNC 7/16 x 14	M 16 x 1.50	22.00	15.50*	26.00	3932-7/16X22P	33,57	2
UNC 1/2 x 13	M 18 x 1.50	24.00	17.50*	26.00	3932-1/2X22P	36,14	2
UNC 5/8 x 11	M 20 x 1.50	22.00	19.50*	26.00	3932-5/8X22P	40,30	2



3932-4GX6P







		mm	ø	L		€	AC
UNF Nº10 x 32	M 8 x 1.00	10.00	7.60*	13.00	3934-10GX10P	22,85	2
UNF 1/4 x 28	M 10 x 1.50	14.00	9.40*	17.00	3934-1/4X14P	25,85	2
UNF 5/16 x 24	M 12 x 1.50	15.00	11.40*	18.00	3934-5/16X15P	28,42	2
UNF 3/8 x 24	M 14 x 1.50	18.00	13.50*	22.00	3934-3/8X18P	31,00	2
UNF 7/16 x 20	M 16 x 1.50	22.00	15.50*	26.00	3934-7/16X22P	33,57	2
UNF 1/2 x 20	M 18 x 1.50	22.00	17.50*	26.00	3934-1/2X22P	36,14	2
UNF 5/8 x 18	M 20 x 1.50	22.00	19.50*	26.00	3934-5/8X22P	40,30	2



3934-1/4X14P

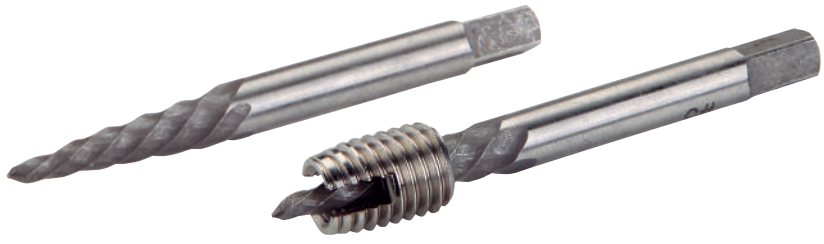




* .Punta per preforatura non inclusa.

ESTRAZIONE



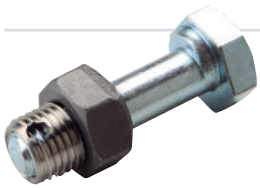


INSERTI AUTOFILETTANTI A 3 FORI

M
MF
M/MF
AC
INOX



						€				€		
		307	Ø	L	AC	100-499	500-1999	2000-...	INOX AISI 303	25-499	500-1999	2000-...
M 4 x 0.70	M 6.50 x 0.80	6.00	6.00-6.10	8.00	3333-M4X6	0,76	0,72	0,66	3333-M4X6SS	1,26	1,19	1,09
M 5 x 0.80	M 8 x 1.00	7.00	7.40-7.50	9.00	3333-M5X7	0,89	0,85	0,78	3333-M5X7SS	1,55	1,47	1,34
M 6 x 1.00	M 10 x 1.25	8.00	9.30-9.40	10.00	3333-M6X8	1,03	0,97	0,89	3333-M6X8SS	1,94	1,83	1,67
M 8 x 1.25	M 12 x 1.50	9.00	11.10-11.20	11.00	3333-M8X9	1,23	1,16	1,07	3333-M8X9SS	2,47	2,34	2,12
M 10 x 1.50	M 14 x 1.50	10.00	13.10-13.20	13.00	3333-M10X10	1,82	1,72	1,56	3333-M10X10SS	3,72	3,50	3,19
						25-499	500-1999	2000-...		1-499	500-1999	2000-...
M 12 x 1.75	M 16 x 1.75	12.00	15.00-15.10	15.00	3333-M12X12	2,87	2,70	2,46	3333-M12X12SS	5,95	5,61	5,10
M 14 x 2.00	M 18 x 2.00	14.00	17.00-17.10	17.00	3333-M14X14	3,74	3,52	3,20	3333-M14X14SS	6,84	6,43	5,85
M 16 x 2.00	M 20 x 2.00	14.00	19.00-19.10	17.00	3333-M16X14	5,08	4,78	4,36	3333-M16X14SS	9,22	8,67	7,90

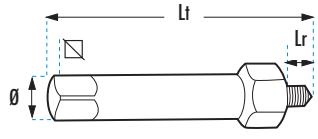


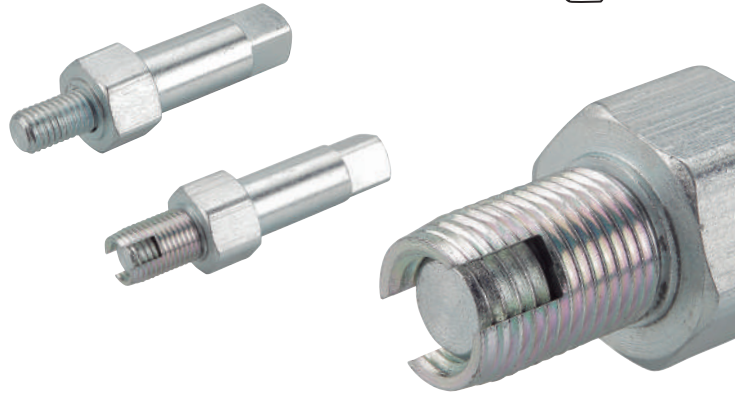


						€				€		
		308	Ø	L	AC	100-499	500-1999	2000-...	INOX AISI 303	25-499	500-1999	2000-...
M 4 x 0.70	M 6.50 x 0.80	8.00	6.10-6.20	10.00	3333-M4X8	0,84	0,79	0,72	3333-M4X8SS	1,42	1,33	1,22
M 5 x 0.80	M 8 x 1.00	10.00	7.60-7.70	13.00	3333-M5X10	1,06	1,01	0,92	3333-M5X10SS	1,79	1,69	1,54
M 6 x 1.00	M 10 x 1.25	12.00	9.50-9.60	15.00	3333-M6X12	1,34	1,27	1,17	3333-M6X12SS	2,13	2,03	1,84
M 8 x 1.25	M 12 x 1.50	14.00	11.30-11.15	17.00	3333-M8X14	1,73	1,64	1,50	3333-M8X14SS	2,79	2,63	2,39
M 10 x 1.50	M 14 x 1.50	18.00	13.30-13.50	22.00	3333-M10X18	2,50	2,34	2,15	3333-M10X18SS	4,24	4,00	3,64
						25-499	500-1999	2000-...		1-499	500-1999	2000-...
M 12 x 1.75	M 16 x 1.75	22.00	15.20-15.40	26.00	3333-M12X22	3,78	3,56	3,24	3333-M12X22SS	9,12	8,58	7,82
M 14 x 2.00	M 18 x 2.00	24.00	17.20-17.40	28.00	3333-M14X24	5,43	5,11	4,65	3333-M14X24SS	10,80	10,16	9,26
M 16 x 2.00	M 20 x 2.00	24.00	19.20-19.10	28.00	3333-M16X24	6,33	5,95	5,43	3333-M16X24SS	12,80	12,03	10,96

UTENSILE DI INSTALLAZIONE PER INSERTI AUTOFILETTANTI

	L mm	Lr mm	Ø mm	⧅ mm		€
M 3 x 0.50	73.00	6.00	12.00	12.00	3920-M3	60,86
M 4 x 0.70	75.00	7.00	12.00	12.00	3920-M4	60,86
M 5 x 0.80	77.00	9.00	12.00	12.00	3920-M5	60,86
M 6 x 1.00	78.00	11.00	12.00	12.00	3920-M6	60,86
M 8 x 1.25	80.00	12.00	12.00	12.00	3920-M8	60,86
M 10 x 1.50	80.00	16.00	18.00	14.00	3920-M10	60,86
M 12 x 1.75	83.50	20.00	18.00	14.00	3920-M12	68,80
M 14 x 2.00	83.50	20.00	22.00	22.00	3920-M14	76,07
M 16 x 2.00	83.50	20.00	22.00	22.00	3920-M16	91,29
M 18 x 2.50	85.50	21.50	26.00	26.00	3920-M18	114,44
M 20 x 2.50	85.50	21.50	26.00	26.00	3920-M20	114,44
M 22 x 2.50	85.50	21.50	30.00	30.00	3920-M22	121,72
M 24 x 3.00	87.50	23.50	30.00	30.00	3920-M24	136,93



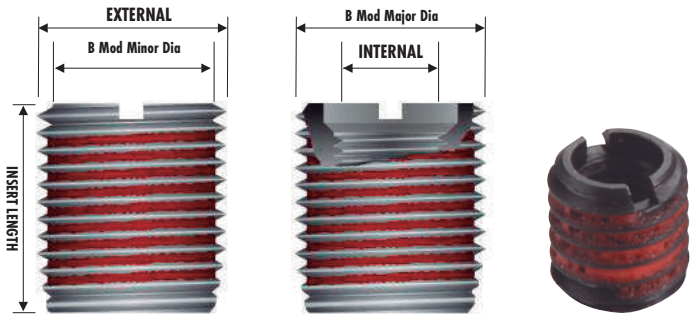




INSERTI PIENI
CON SIGILLANTE ANAEROBICO

Caratteristiche e Vantaggi

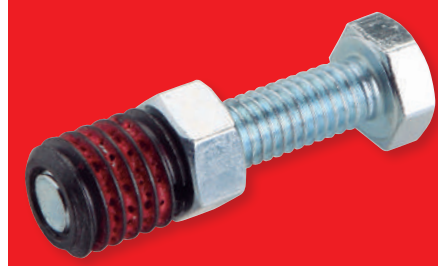
- Facile installazione dell'inserto EZ Sert per mezzo di una vite di filettatura uguale alla interna oppure, anche mediante un cacciavite o elettroutensile.
- Si installano utilizzando maschi e punte standard.
- L'adesivo microincapsulato reagisce in 3-5 minuti e impedisce all'inserto di scivolare fuori dal suo alloggiamento a causa delle vibrazioni esterne. L'inserto rimane aderito generando una filettatura a tenuta stagna fronte liquidi e gas con resistenza fino a 400 bar di pressione quando la reazione si stabilizza (72 ore).

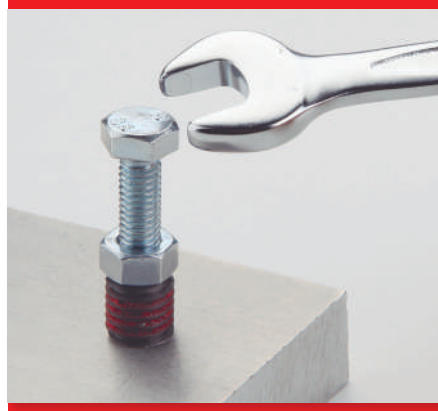


ESTRAZIONE



- NOTA: l'inserto EZ SERT richiede una filettatura esterna leggermente diversa da quella contrassegnata da DIN 13. Il diametro esterno è standard ma il diametro interno è leggermente superiore al normale, quindi è necessario aggiungere un decimo alla solita dimensione della punta. Esempio: inserto di filettatura Esterna M6X1, verrà utilizzata una punta da 5,1 mm invece di 5 mm, che sarebbe il più abituale.







INSERTI PIENI CON SIGILLANTE ANAEROBICO

M
MF

PD

PARETE SOTTILE

D		L mm	Ø			€
M 4 x 0.70	UNC 5/16 x 18h	7.92	6,90	9.52	3320-4.00TWF	5,11
M 5 x 0.80	UNC 5/16 x 18h	7.92	6,90	9.52	3320-5.00TWF	5,11
M 6 x 1.00	UNC 3/8 x 16h	9.52	8,40	11.10	3320-6.00TWF	6,44
M 8 x 1.25	UNC 7/16 x 14h	11.10	10,10	12.70	3320-8.00TWF	7,32
M 10 x 1.50	UNC 1/2 x 13h	12.70	11,50	14.22	3320-10.00TWF	10,34
M 12 x 1.75	UNC 5/8 x 11h	15.75	14,50	17.27	3320-12.00TWF	11,61



PR

PARETE RINFORZATA

D		L mm	Ø		AC	€	AISI 303	€
M 3 x 0.50	M6 x 1.00	6.50	5.10	7.80	3320-3.00HWM	3,15	3320-3.00HWSS	6,93
M 4 x 0.70	M8 x 1.25	7.50	6.90	9.00	3320-4.00HWM	3,36	3320-4.00HWSS	8,42
M 5 x 0.80	M8 x 1.25	7.50	6.90	9.00	3320-5.00HWM	3,79	3320-5.00HWSS	9,19
M 6 x 1.00	M10 x 1.50	10.50	8.60	12.00	3320-6.00HWM	4,26	3320-6.00HWSS	7,17
M 8 x 1.25	M12 x 1.75	12.50	10.40	14.50	3320-8.00HWM	4,81	3320-8.00HWSS	11,39
M 10 x 1.50	M16 x 2.00	17.00	14.00	19.00	3320-10.00HWM	7,41	3320-10.00HWSS	11,36
M 12 x 1.75	M16 x 2.00	17.00	14.00	19.00	3320-12.00HWM	8,33	3320-12.00HWSS	12,96
M 16 x 2.00	M24 x 3.00	20.00	21.00	24.00	3320-16.00HWM	10,04	3320-16.00HWSS	21,67
M 20 x 2.50	M36 x 4.00	30.00	33.00	35.00	3320-20.00HWM	29,59		

PARETE RINFORZATA

M 6 x 1.00	UNC 3/8 x 16h	10.31	8.00	11.90	3320-6.00HWF	2,40	3320-6.00HWSSF	9,95
M 8 x 1.25	UNC 1/2 x 13h	12.29	10.70	14.29	3320-8.00HWF	2,94	3320-8.00HWSSF	11,45
M 10 x 1.50	UNC 9/16 x 12h	13.08	12.30	15.08	3320-10.00HWF	3,36	3320-10.00HWSSF	13,08
M 10 x 1.25	UNC 9/16 x 12h	13.08	12.30	15.08	3321-10.00HWF	4,95	3321-10.00HWSSF	-
M 12 x 1.75	UNC 3/4 x 10h	16.66	16.60	19.05	3320-12.00HWF	4,33	3320-12.00HWSSF	18,65
M 14 x 2.00	UNC 7/8 x 9h	17.45	19.50	20.64	3320-14.00HWF	8,69	3320-14.00HWSSF	22,98
M 16 x 2.00	UNC 1 x 8h	19.84	22.00	22.25	3320-16.00HWF	8,66	3320-16.00HWSSF	-

* Scheda di dati di sicurezza disponibile.

D	
M3 x 0.50	M6 x 1.00
M4 x 0.70	M8 x 1.25
M5 x 0.80	M8 x 1.25
M6 x 1.00	M10 x 1.50
M8 x 1.25	M12 x 1.75

SET 50 Unit M3-M8		AC
10	3320-3.00HW	
10	3320-4.00HW	3320-WK0
10	3320-5.00HW	
10	3320-6.00HW	304,41€
10	3320-8.00HW	

SET 50 Unit M3-M8		AISI 303
10	3320-3.00HWSS	
10	3320-4.00HWSS	3320-SSWK0
10	3320-5.00HWSS	
10	3320-6.00HWSS	569,54 €
10	3320-8.00HWSS	



M8 x 1.25	M12 x 1.75
M10 x 1.50	M16 x 2.00
M12 x 1.75	M16 x 2.00
M16 x 2.00	M 24 x 3.00

SET 33 Unit M8-M16		AC
10	3320-8.00HW	
10	3320-10.00HW	3320-WK1
8	3320-12.00HW	
5	3320-16.00HW	348,61€

SET 33 Unit M8-M16		AISI 303
10	3320-8.00HWSS	
10	3320-10.00HWSS	3320-SSWK1
8	3320-12.00HWSS	
5	3320-16.00HWSS	602,08 €

M5 x 0.80	M8 x 1.25
M6 x 1.00	M10 x 1.50
M8 x 1.25	M12 x 1.75
M10 x 1.50	M16 x 2.00
M12 x 1.75	M16 x 2.00

SET 46 Unit M5-M12		AISI 303
10	3320-5.00HWSS	
10	3320-6.00HWSS	3320-SSWK2
10	3320-8.00HWSS	
10	3320-10.00HWSS	585,82 €
6	3320-12.00HWSS	

ESTRAZIONE





INSERTI T-SERT CON TESTA SVASATA

Caratteristiche e Vantaggi

- T-SERT è un inserto solido per l'applicazione universale in tutti i tipi di materiali. Installazione facile.
- T-SERT ha una parete molto sottile grazie al sincronismo tra filettature esterne ed interne. Consente l'installazione dell'inserto in spazi ristretti.
- Genera tenuta nella filettatura: acqua, olio, ...
- T-SERT è un Inserto AUTOBLOCCANTE, si installa automaticamente al passare dell'utensile installatore che, per laminazione, deforma alcune filetti interne verso l'esterno, bloccando l'inserto nel suo foro.
- La zona svasata garantisce un posizionamento preciso sul pezzo, quindi non è necessario alcun sigillante aggiuntivo. Non si svita, nemmeno in ambienti con vibrazioni estreme.
- Adatto per processi che devono sopportare carichi estremi, senza svitarsi.
- Il maschio,il svasatore e l'installatore sono esclusivi per gli insterti T-SERT.



INSERTI T-SERT CON TESTA SVASATA E ACCESSORI

M
MF

M/MF



INSERTI

				h	Ø	L		€	
M 3 x 0.50	M5 x 0.50	4.30	6.00	0.50	4.50	3.80	3910-3.00x4.3	4,04	5
M 4 x 0.70	M6 x 0.70	6.00	7.00	0.50	5.30	5.50	3910-4.00x6.0	4,04	5
M 5 x 0.80	M7 x 0.80	7.60	8.00	0.50	6.20	7.20	3910-5.00x7.6	4,04	5
M 6 x 1.00	M8 x 1.00	9.40	9.00	0.70	7.00	8.90	3910-6.00x9.4	4,36	5
M 8 x 1.25	M10 x 1.25	11.70	12.00	0.80	8.70	11.20	3910-8.00x11.7	4,50	5
M 10 x 1.50	M12 x 1.50	14.00	14.00	1.00	10.50	13.50	3910-10.00x14.0	5,51	5
M 12 x 1.75	M14 x 1.75	16.00	16.00	1.00	12.70	15.50	3910-12.00x16.2	6,08	5

SVASATORE

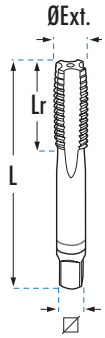
	Ø mm	L mm	⧄ mm	Ø2 mm	h mm		€
M 3 x 0.50	6.50	60.00	3.50	6.50	1.00	3910-3.00AVELL	72,83
M 4 x 0.70	7.50	65.00	3.80	7.50	1.00	3910-4.00AVELL	73,76
M 5 x 0.80	8.50	70.00	5.00	8.50	1.00	3910-5.00AVELL	77,96
M 6 x 1.00	9.50	70.00	5.00	9.50	1.20	3910-6.00AVELL	80,06
M 8 x 1.25	12.50	79.00	7.00	12.50	1.30	3910-8.00AVELL	81,82
M 10 x 1.50	14.50	89.00	8.00	14.50	1.50	3910-10.00AVELL	87,50
M 12 x 1.75	16.50	80.00	9.00	16.50	1.50	3910-12.00AVELL	92,66



MASCHIO

	Ø Ext.	L mm	Lr mm	Ø mm	⧄ mm		€
M 3 x 0.50	M5 x 0.50	60.00	20.00	5.08	4.00	3910-3.00I	68,13
M 4 x 0.70	M6 x 0.70	70.00	22.00	6.09	4.90	3910-4.00I	68,13
M 5 x 0.80	M7 x 0.80	68.00	22.00	7.10	4.50	3910-5.00I	72,80
M 6 x 1.00	M8 x 1.00	72.00	22.00	8,12	4.90	3910-6.00I	76,06
M 8 x 1.25	M10 x 1.25	80.00	24.00	10,12	6.00	3910-8.00I	82,60
M 10 x 1.50	M12 x 1.50	88.00	29.00	12,14	7.10	3910-10.00I	102,67
M 12 x 1.75	M14 x 1.75	90.00	30.00	14,15	8.70	3910-12.00I	113,86



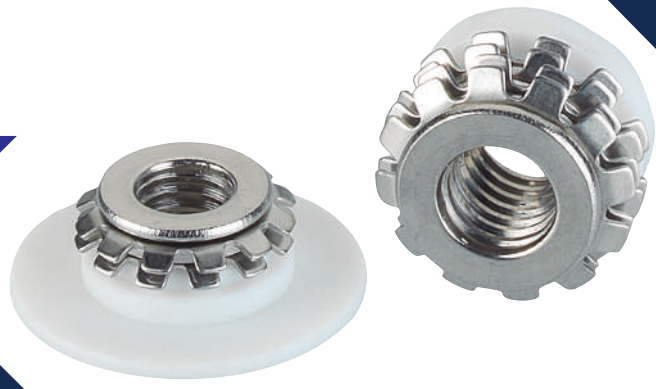


UTENSILE DI INSTALLAZIONE

	L mm	Lr mm	Ø mm	⧄ mm		€
M 3 x 0.50	54.00	15.00	3.50	3.80	3910-3.00HIP	61,16
M 4 x 0.70	62.00	18.00	5.00	3.80	3910-4.00HIP	62,67
M 5 x 0.80	71.00	30.00	5.80	5.00	3910-5.00HIP	63,00
M 6 x 1.00	72.00	22.00	7.60	5.00	3910-6.00HIP	68,51
M 8 x 1.25	79.00	25.00	10.00	6.00	3910-8.00HIP	71,40
M 10 x 1.50	90.00	30.00	12.00	7.00	3910-10.00HIP	75,60
M 12 x 1.75	95.00	30.00	15.00	9.00	3910-12.00HIP	88,20



wallsert by celesa



INSERTI FILETTATI PER ANCORAGGI SU SUPERFICI SOLIDE

Caratteristiche e Vantaggi

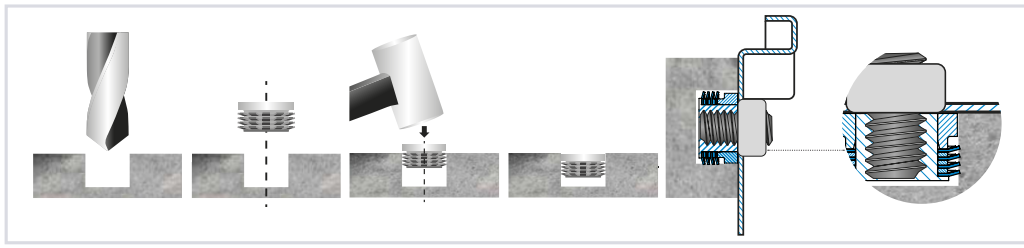
- L'inserto **WALLSERT** permette l'ancoraggio di boccole filettate in materiali come marmo, granito, pietra naturale, porcellana, pietra sinterizzata, materiali compositi come Corian, pannello compatto fenolico, solid surface in genere ed un'ampia gamma legata al design sia in outdoor che in al chiuso.

- È un'OTTIMA SOLUZIONE per introdurre facilmente ancoraggi filettati nei pannelli di facciate ventilate, rivestimenti esterni, progetti di interni come cucine, bagni, mobili... Offre una vasta gamma di soluzioni.





- Il NUOVO design **WALLSERT** consente il semplice ancoraggio di elementi filettati, sopportando grandi forze. La sua INSTALLAZIONE È molto semplice, è sufficiente praticare il foro consigliato nel materiale alla profondità consigliata, ed inserirlo esercitando una piccola pressione sull'ancoraggio, oppure un leggero colpo con un martello in Nylon. SEMPRE in materiali solidi o ad alta densità..



- 2 modelli **WALLSERT** disponibili, testa dritta e testa piatta.
  L'inserto **WALLSERT** è composto da 3 parti,
  Boccola filettata, Acciaio INOX AISI 303
  Corone, Acciaio Inossidabile AISI 303
  Testa, nylon PA6





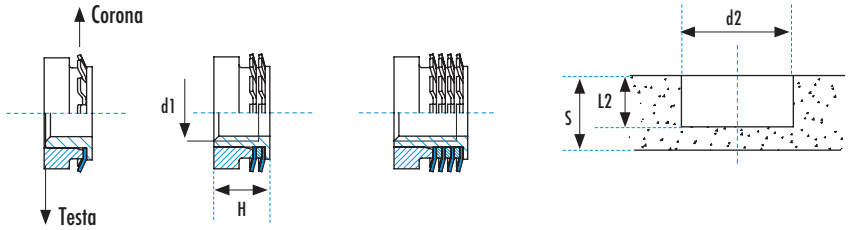
M

INOX AISI303



wall sert by celesa

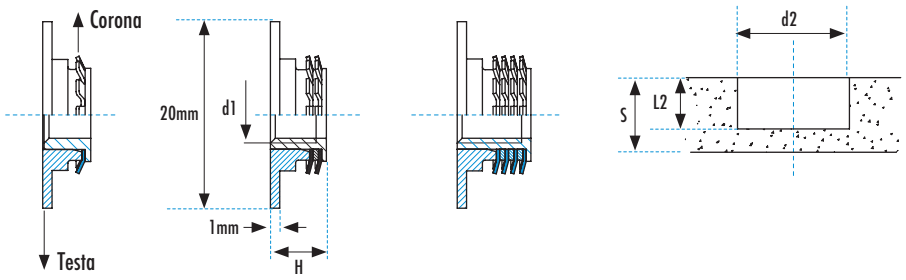
INSERTI WALLSERT TESTA DRITTA



d1	H mm	d2 mm	L2 mm	S mm	Nº Coronas	kN x wallsert		€	
M 4 x 0.70	5.00	12.00	5.50	8.00	1	1.1	3820-M4X5SS	2,44	50
M 5 x 0.80							3820-M5X5SS	2,44	50
M 6 x 1.00							3820-M6X5SS	2,44	50
M 4 x 0.70	6.00	12.00	6.50	8.50	2	2.1	3820-M4X6SS	2,67	50
M 5 x 0.80							3820-M5X6SS	2,67	50
M 6 x 1.00							3820-M6X6SS	2,67	50
M 4 x 0.70	8.50	12.00	9.00	11.00	4	3.4	3820-M4X8,5SS	2,89	50
M 5 x 0.80							3820-M5X8,5SS	2,89	50
M 6 x 1.00							3820-M6X8,5SS	2,89	50



INSERTI WALLSERT TESTA PIATTA



d1	H mm	d2 mm	L2 mm	S mm	Nº Coronas	kN x wallsert		€	
M 4 x 0.70	5.00	12.00	4.50	7.00	1	0.7	3825-M4X5SS	2,67	50
M 5 x 0.80							3825-M5X5SS	2,67	50
M 6 x 1.00							3825-M6X5SS	2,67	50
M 4 x 0.70	6.00	12.00	5.50	7.50	2	1.9	3825-M4X6SS	2,89	50
M 5 x 0.80							3825-M5X6SS	2,89	50
M 6 x 1.00							3825-M6X6SS	2,89	50
M 4 x 0.70	8.00	12.00	8.05	10.00	4	3.0	3825-M4X8SS	3,11	50
M 5 x 0.80							3825-M5X8SS	3,11	50
M 6 x 1.00							3825-M6X8SS	3,11	50



rivetsert by celesa



DADI PER RIVETTI

Caratteristiche e Vantaggi

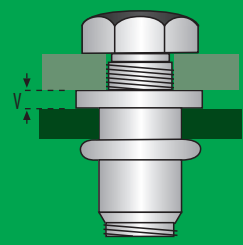
Il dado per rivetti RIVETSERT è un elemento di fissaggio meccanico che garantisce una filettatura forte, resistente e affidabile che può essere utilizzata in innumerevoli materiali come Metallo, Plastica, Fibra di vetro e Fibra di Carbonio. È particolarmente utile nell'industria automobilistica, così come nell'industria pesante che tende ad alleggerire tutti i suoi componenti, facilitando i processi produttivi, ma garantendo fillettature robuste.

Essendo la Testa Piatta la più universale, i dadi per rivetti RIVETSERT sono stati appositamente progettati per resistere a coppie di serraggio elevate nell'assemblaggio di tutti i tipi di componenti meccanici:

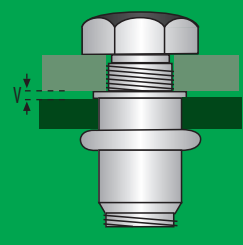
- Ottima soluzione per ottenere una filettatura affidabile e resistente in pezzi di spessore ridotto (0,5 mm).
- Doppia funzione: rivetta il giunto generando una filettatura.
- Disponibile in tre diversi tipi di teste; piatta, ridotta e svasata.
- Utilizzo di utensili ergonomici e semplici, che possono essere pneumatici, manuali o automatici.

TIPI DI TESTA: PIATTA, RIDOTTA E SVASATA

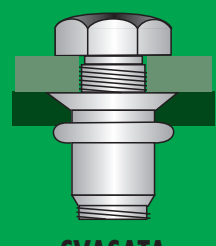
- **PIATTA:** è il tipo di testa più versatile e universale. Fornisce sufficiente superficie di supporto per trattenere tutti i tipi di materiali, tranne quelli estremamente morbidi e fragili, offrendo una coppia di serraggio elevata. Lo spazio "v" è considerevole.
- **RIDOTTA:** Sono progettati per applicazioni in cui un materiale morbido o fragile deve essere unito a un materiale di supporto rigido. Lo spazio a "v" è quasi trascurabile ma offrono coppie di serraggio inferiori rispetto ai rivetti a Testa Piatta.
- **SVASATA:** Questo tipo di testa permette la rivettatura di pezzi di maggior spessore ed è studiata per ottenere una superficie piana senza creste, con una coppia di serraggio elevata. Lo spazio "v" è inesistente ma è necessaria una svasatura precedente.



PIATTA



RIDOTTA



SVASATA

DADI PER RIVETTI CILINDRICI



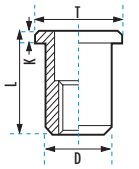
M
MF

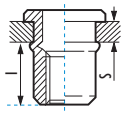
M/MF

HCS

TESTA PIATTA - CORTO





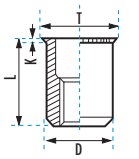


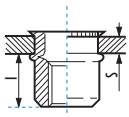
	S mm	D mm +0,07/-0,1	Ø +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	Nm		€/100 Unit	
M 3x0.50	0.50 - 1.50	4.90	5.00	7.20	0.80	8.50	4.70	2.00	3850-M3	6,95	100
M 4x0.70	0.50 - 2.00	5.90	6.00	8.50	0.80	10.50	6.00	5.00	3850-M4	7,10	100
M 5x0.80	0.50 - 2.50	6.90	7.00	10.00	1.00	13.00	7.50	8.50	3850-M5	7,25	100
M 6x1.00	0.50 - 3.00	8.90	9.00	12.30	1.30	15.50	9.20	15.00	3850-M6	8,76	100
M 8x1.25	1.00 - 3.50	10.90	11.00	15.00	1.50	18.50	11.50	26.00	3850-M8	14,68	50
M 10x1.50	1.00 - 3.50	11.90	12.00	16.00	1.50	19.00	11.00	50.00	3850-M10	24,00	50
M 10x1.50	1.00 - 2.50	12.90	13.00	16.30	1.60	17.00	11.50	50.00	3850-M10E1	24,20	50
M 12x1.75	1.00 - 4.00	14.90	15.00	18.00	1.70	22.00	13.50	80.00	3850-M12	43,88	50
M 12x1.75	1.00 - 4.00	15.90	16.00	22.00	2.00	25.00	16.00	80.00	3850-M12E1	45,09	50

* Tutti i prezzi indicati si riferiscono a confezioni da 100 pezzi

TESTA RIDOTTA - CORTO





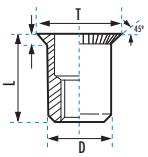


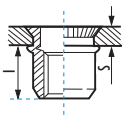
	S mm	D mm +0,07/-0,1	Ø +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	Nm		€/100 Unit	
M 3x0.50	0.50 - 2.00	4.90	5.00	6.00	0.50	9.00	6.20	1.00	3851-M3	6,95	100
M 4x0.70	0.50 - 2.00	5.90	6.00	7.00	0.50	10.50	6.50	3.00	3851-M4	7,10	100
M 5x0.80	0.50 - 2.00	6.90	7.00	8.00	0.50	11.50	7.00	6.00	3851-M5	7,25	100
M 6x1.00	0.50 - 2.50	8.90	9.00	10.00	0.60	14.00	8.50	11.00	3851-M6	8,76	100
M 8x1.25	1.00 - 3.00	10.90	11.00	12.00	0.60	16.50	10.00	20.00	3851-M8	14,68	100
M 10x1.50	0.50 - 3.50	11.90	12.00	13.00	0.85	18.00	13.00	32.00	3851-M10	24,00	50
M 10x1.50	1.00 - 3.00	12.90	13.00	14.00	0.70	17.70	12.00	32.00	3851-M10E1	24,20	50
M 12x1.75	0.50 - 3.50	14.90	15.00	16.50	0.85	22.50	16.00	50.00	3851-M12	43,88	50

* Tutti i prezzi indicati si riferiscono a confezioni da 100 pezzi

TESTA SVASATA - CORTO







	S mm	D mm +0,07/-0,1	Ø +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	Nm		€/100 Unit	
M 3x0.50	1.60 - 3.50	4.90	5.00	7.20	1.50	9.50	4.50	1.00	3852-M3	6,95	100
M 4x0.70	1.50 - 3.00	5.90	6.00	9.00	1.50	12.00	6.50	4.00	3852-M4	7,10	100
M 5x0.80	1.50 - 3.50	6.90	7.00	10.00	1.50	13.00	7.50	8.00	3852-M5	7,25	100
M 6x1.00	1.50 - 4.00	8.90	9.00	12.00	1.50	15.50	9.00	15.00	3852-M6	8,76	100
M 8x1.25	2.00 - 4.50	10.90	11.00	14.00	1.50	18.50	10.00	26.00	3852-M8	14,68	100
M 10x1.50	1.60 - 5.00	11.90	12.00	15.00	1.50	21.00	11.50	45.00	3852-M10	24,00	50
M 10x1.50	1.60 - 5.00	12.90	13.00	16.00	1.50	21.00	11.50	45.00	3852-M10E1	24,20	50

* Tutti i prezzi indicati si riferiscono a confezioni da 100 pezzi

rivetsert by celesa

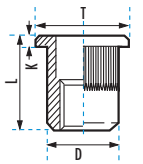


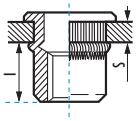
DADI PER RIVETTI CILINDRICI STRIATI

M MF | M/MF | HCS

TESTA PIATTA





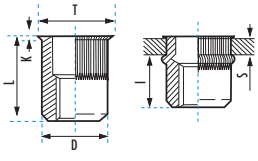


	S mm	D mm +0,07/-0,1	Ø +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	Nm		€/100 Unit	
M 3x0.50	0.50 - 1.50	4.90	5.00	8.00	0.80	10.00	6.00	2.00	3853-M3	6,95	100
M 3x0.50	1.50 - 3.00	4.90	5.00	7.00	0.80	11.50	8.00	2.00	3853-M3E1	7,50	100
M 4x0.70	0.50 - 2.00	5.90	6.00	9.00	0.80	10.50	6.00	5.00	3853-M4	7,10	100
M 4x0.70	2.00 - 3.50	5.90	6.00	9.00	0.80	12.00	6.00	5.00	3853-M4E1	8,29	100
M 5x0.80	0.50 - 2.50	6.90	7.00	10.00	1.00	13.00	7.50	8.50	3853-M5	7,25	100
M 5x0.80	2.50 - 5.00	6.90	7.00	10.00	1.00	16.50	8.50	8.50	3853-M5E1	8,46	100
M 6x1.00	0.50 - 3.00	8.90	9.00	12.30	1.30	15.50	9.20	15.00	3853-M6	8,76	100
M 6x1.00	3.00 - 5.50	8.90	9.00	12.30	1.30	19.50	10.50	15.00	3853-M6E1	11,42	100
M 8x1.25	1.00 - 3.50	10.90	11.00	14.50	1.50	18.50	11.50	26.00	3853-M8	14,68	100
M 8x1.25	3.50 - 6.00	10.90	11.00	14.50	1.50	21.00	11.50	26.00	3853-M8E1	17,76	100
M 10x1.50	1.00 - 3.50	11.90	12.00	16.00	1.70	19.00	12.50	50.00	3853-M10	24,00	50
M 10x1.50	3.00 - 6.00	11.90	12.00	16.00	1.60	24.00	18.50	50.00	3853-M10E1	25,38	50
M 10x1.50	1.00 - 4.00	12.90	13.00	17.00	1.70	21.50	13.50	50.00	3853-M10E2	24,20	50
M 10x1.50	4.00 - 6.50	12.90	13.00	17.00	1.70	24.00	13.50	50.00	3853-M10E3	28,47	50
M 12x1.75	1.00 - 4.00	14.90	15.00	18.00	1.70	22.00	13.50	80.00	3853-M12	43,88	50
M 12x1.75	4.00 - 6.50	14.90	15.00	18.00	1.70	25.00	14.00	80.00	3853-M12E1	56,21	50
M 12x1.75	1.00 - 3.50	15.90	16.00	22.00	2.00	25.00	15.00	80.00	3853-M12E2	57,73	50
M 12x1.75	3.50 - 6.00	15.90	16.00	22.00	2.00	28.00	16.50	80.00	3853-M12E3	59,84	50

* Tutti i prezzi indicati si riferiscono a confezioni da 100 pezzi

TESTA RIDOTTA





	S mm	D mm +0,07/-0,1	Ø +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	Nm		€/100 Unit	
M 3x0.50	0.50 - 2.00	4.90	5.00	6.00	0.50	9.00	6.50	1.00	3854-M3	6,95	100
M 3x0.50	2.00- 3.50	4.90	5.00	6.00	0.50	11.50	5.50	1.00	3854-M3E1	7,50	100
M 4x0.70	0.50 - 2.00	5.90	6.00	7.00	0.50	11.20	7.00	3.00	3854-M4	7,10	100
M 4x0.70	2.00 - 4.00	5.90	6.00	7.00	0.50	13.00	7.00	3.00	3854-M4E1	8,29	100
M 5x0.80	0.50 - 2.50	6.90	7.00	8.00	0.50	11.50	7.00	6.00	3854-M5	7,25	100
M 5x0.80	2.00 - 4.00	6.90	7.00	8.00	0.50	13.00	7.00	6.00	3854-M5E1	8,46	100
M 6x1.00	0.50 - 2.50	8.90	9.00	10.00	0.60	14.00	8.50	11.00	3854-M6	8,76	100
M 6x1.00	2.50 - 4.50	8.90	9.00	10.00	0.60	16.00	8.50	11.00	3854-M6E1	11,42	100
M 8x1.25	1.00 - 3.00	10.90	11.00	12.00	0.60	16.50	10.00	20.00	3854-M8	14,68	100
M 8x1.25	3.00 - 5.00	10.90	11.00	12.00	0.60	18.50	10.00	20.00	3854-M8E1	17,76	100
M 10x1.50	1.00 - 3.50	11.90	12.00	13.00	0.70	19.50	13.00	32.00	3854-M10	24,00	50
M 10x1.50	3.50 - 6.00	11.90	12.00	13.00	0.70	22.00	17.00	32.00	3854-M10E1	25,38	50
M 10x1.50	1.00 - 3.50	12.90	13.00	14.00	0.70	19.50	12.50	32.00	3854-M10E2	26,58	50
M 10x1.50	3.50 - 6.00	12.90	13.00	14.00	0.70	22.00	12.50	32.00	3854-M10E3	28,47	50
M 12x1.75	0.50 - 3.50	14.90	15.00	16.50	0.85	22.50	16.00	50.00	3854-M12	43,88	50
M 12x1.75	1.00 - 4.00	15.90	16.00	17.60	0.75	24.20	16.00	50.00	3854-M12E1	45,09	50
M 12x1.75	4.00 - 6.00	15.90	16.00	17.15	0.60	27.00	16.00	50.00	3854-M12E2	59,84	50

* Tutti i prezzi indicati si riferiscono a confezioni da 100 pezzi

DADI PER RIVETTI CILINDRICI STRIATI



M
MF

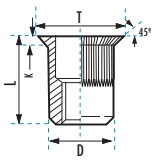
M/MF

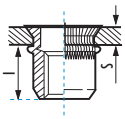
HCS



TESTA SVASATA

	S mm	D mm +0,07/-0,1	Ø +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	Nm		€/100 Unit	
M 3x0.50	1.60 - 2.50	4.90	5.00	6.60	1.05	9.50	4.50	1.00	3855-M3	8,88	100
M 3x0.50	2.50 - 4.00	4.90	5.00	6.60	1.50	10.50	4.50	1.00	3855-M3E1	10,58	100
M 4x0.70	1.50 - 3.00	5.90	6.00	9.00	1.50	12.00	6.50	4.00	3855-M4	9,10	100
M 4x0.70	3.00 - 5.00	5.90	6.00	9.00	1.50	14.00	6.00	4.00	3855-M4E1	11,60	100
M 5x0.80	1.50 - 3.50	6.90	7.00	10.00	1.50	13.00	7.50	8.00	3855-M5	9,13	100
M 5x0.80	3.50 - 6.00	6.90	7.00	10.00	1.50	16.50	8.50	8.00	3855-M5E1	12,75	100
M 6x1.00	1.50 - 4.00	8.90	9.00	12.00	1.50	15.50	9.00	15.00	3855-M6	10,09	100
M 6x1.00	4.00 - 6.00	8.90	9.00	12.00	1.50	18.00	9.00	15.00	3855-M6E1	18,92	100
M 8x1.25	2.00 - 4.50	10.90	11.00	14.00	1.50	18.50	10.00	26.00	3855-M8	19,13	100
M 8x1.25	4.00 - 6.50	10.90	11.00	14.00	1.50	21.00	10.00	26.00	3855-M8E1	19,22	100
M 10x1.50	1.60 - 5.00	11.90	12.00	15.00	1.50	19.00	11.50	45.00	3855-M10	25,38	50
M 10x1.50	5.00 - 7.50	11.90	12.00	15.00	1.50	24.00	11.50	45.00	3855-M10E1	38,98	50
M 10x1.50	2.00 - 5.00	12.90	13.00	16.00	1.50	21.00	11.50	45.00	3855-M10E2	38,97	50
M 10x1.50	5.00 - 7.50	12.90	13.00	16.00	1.50	24.00	11.50	45.00	3855-M10E3	38,98	50
M 12x1.75	1.60 - 5.00	14.90	15.00	18.00	1.50	22.50	14.50	70.00	3855-M12	48,05	50
M 12x1.75	1.70 - 4.50	15.90	16.00	19.00	1.90	24.00	17.50	70.00	3855-M12E1	56,21	50
M 12x1.75	4.00 - 7.50	15.90	16.00	19.00	1.90	29.00	17.50	70.00	3855-M12E2	101,99	50





* Tutti i prezzi indicati si riferiscono a confezioni da 100 pezzi



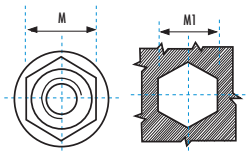


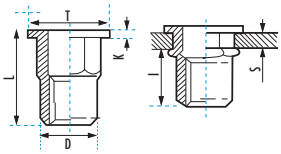
DADI PER RIVETTI SEMI-ESAGONALI

M
MF
M/MF
HCS

TESTA PIATTA





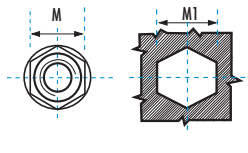


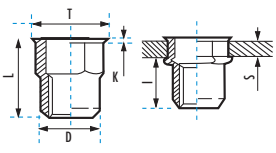
	S mm	D mm +0,07/-0,1	Ø +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	Nm		€/100 Unit	
M 3x0.50	0.50 - 1.50	4.90	5.00	7.20	0.80	8.50	5.50	2.00	3856-M3	9,67	100
M 4x0.70	0.50 - 2.00	5.90	6.00	9.00	0.80	11.00	6.50	5.00	3856-M4	9,79	100
M 4x0.70	2.50 - 4.00	5.90	6.00	9.00	0.80	13.50	6.50	5.00	3856-M4E1	17,54	100
M 5x0.80	0.50 - 3.00	6.90	7.00	10.00	1.00	13.00	8.00	8.50	3856-M5	10,58	100
M 5x0.80	3.00 - 5.50	6.90	7.00	10.00	0.80	16.00	11.00	8.50	3856-M5E1	17,54	100
M 6x1.00	0.50 - 4.00	8.90	9.00	12.00	1.50	16.50	8.50	15.00	3856-M6	11,96	100
M 6x1.00	3.00 - 5.50	8.90	9.00	13.00	1.50	18.50	10.50	15.00	3856-M6E1	29,62	100
M 8x1.25	1.00 - 4.00	10.90	11.00	15.90	1.50	18.20	10.50	20.00	3856-M8	16,97	100
M 8x1.25	4.00 - 6.00	10.90	11.00	15.00	1.50	20.50	12.50	26.00	3856-M8E1	31,79	100
M 10x1.50	1.00 - 3.50	11.90	12.00	17.00	1.60	19.00	12.00	50.00	3856-M10	27,13	50
M 10x1.50	0.50 - 3.50	12.90	13.00	17.00	1.80	21.00	12.00	50.00	3856-M10E1	27,75	50
M 12x1.75	2.00 - 5.00	15.90	16.00	23.00	2.20	27.50	16.50	80.00	3856-M12	59,84	50

* Tutti i prezzi indicati si riferiscono a confezioni da 100 pezzi

TESTA RIDOTTA







	S mm	D mm +0,07/-0,1	Ø +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	Nm		€/100 Unit	
M 3x0.50	0.30 - 1.50	4.90	5.00	6.00	0.50	9.00	5.50	1.00	3857-M3	14,63	100
M 3x0.50	1.50 - 2.50	4.90	5.00	6.00	0.50	10.00	5.50	1.00	3857-M3E1	16,80	100
M 4x0.70	0.50 - 2.00	5.90	6.00	7.00	0.50	12.00	8.30	3.00	3857-M4	8,46	100
M 5x0.80	0.50 - 2.50	6.90	7.00	8.00	0.50	13.00	8.70	6.00	3857-M5	9,49	100
M 6x1.00	1.00 - 3.50	8.90	9.00	10.00	0.60	16.00	10.50	11.00	3857-M6	10,70	100
M 8x1.25	1.00 - 3.50	10.90	11.00	12.00	0.65	17.50	11.30	20.00	3857-M8	14,50	100
M 10x1.50	1.00 - 4.00	11.90	12.00	13.25	0.70	18.30	12.80	32.00	3857-M10	23,26	50
M 10x1.50	1.00 - 4.00	12.90	13.00	14.50	0.75	21.00	12.80	32.00	3857-M10E1	23,58	50
M 12x1.75	1.50 - 4.00	15.90	16.00	17.50	0.80	24.00	16.00	50.00	3857-M12	59,28	50

* Tutti i prezzi indicati si riferiscono a confezioni da 100 pezzi

TESTA RIDOTTA – PERFORAZIONE SPECIALE



	S mm	D mm +0,07/-0,1	Ø +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	Nm		€/100 Unit	
M 4x0.70	0.50 - 2.00	6.30	6.40	7.40	0.50	10.50	6.50	3.00	3858-M4	9,67	100
M 5x0.80	0.50 - 2.50	7.10	7.20	8.20	0.50	12.00	7.50	6.00	3858-M5	11,49	100
M 6x1.00	1.00 - 3.00	9.50	9.60	10.60	0.60	15.00	9.20	11.00	3858-M6	12,38	100
M 8x1.25	1.00 - 3.50	10.50	10.60	11.60	0.60	16.50	10.50	20.00	3858-M8	17,10	100

* Tutti i prezzi indicati si riferiscono a confezioni da 100 pezzi

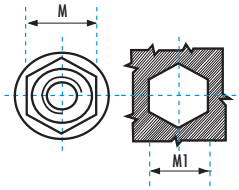
DADI PER RIVETTI ESAGONALI

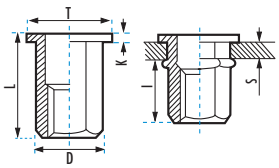


M
MF
M/MF
HCS

TESTA PIATTA





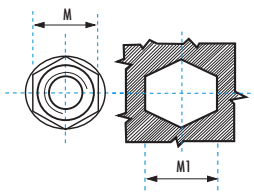


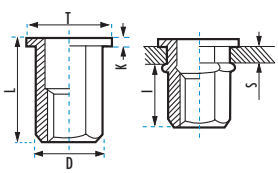
	S mm	M mm	M1 mm	T mm	K mm	L mm	I mm	Nm		€/100 Unit	
M 4x0.70	0.50 - 2.00	5.90	6.00	9.00	0.80	11.00	6.50	5.00	3859-M4	9,67	100
M 4x0.70	2.00 - 5.00	5.90	6.00	9.00	0.80	13.50	6.50	5.00	3859-M4E1	15,71	100
M 5x0.80	0.50 - 3.00	6.90	7.00	10.00	1.00	14.00	8.00	8.50	3859-M5	10,58	100
M 5x0.80	3.00 - 6.00	6.90	7.00	10.00	1.00	16.50	8.00	8.50	3859-M5E1	16,62	100
M 6x1.00	0.50 - 3.00	8.90	9.00	13.00	1.20	16.00	9.50	15.00	3859-M6	11,96	100
M 6x1.00	3.00 - 5.00	8.90	9.00	13.00	1.50	19.50	8.50	15.00	3859-M6E1	17,54	100
M 8x1.25	1.00 - 3.50	10.90	11.00	16.00	1.50	17.00	9.50	26.00	3859-M8	16,97	100
M 8x1.25	3.50 - 6.00	10.90	11.00	15.00	1.50	21.50	10.50	26.00	3859-M8E1	22,97	100
M 10x1.50	1.00 - 3.50	11.90	12.00	18.00	1.70	21.00	13.50	50.00	3859-M10	27,13	50
M 10x1.50	1.00 - 3.50	12.90	13.00	18.00	1.70	21.00	13.50	50.00	3859-M10E1	27,75	50
M 10x1.50	3.50 - 6.50	12.90	13.00	17.00	1.50	24.00	14.50	50.00	3859-M10E2	42,67	50
M 12x1.75	1.00 - 3.50	14.90	15.00	19.00	2.00	24.30	16.00	80.00	3859-M12	69,51	50
M 12x1.75	2.00 - 5.00	15.90	16.00	23.00	2.00	27.00	16.50	80.00	3859-M12E1	59,84	50

* Tutti i prezzi indicati si riferiscono a confezioni da 100 pezzi

TESTA RIDOTTA







	S mm	M mm	M1 mm	T mm	K mm	L mm	I mm	Nm		€/100 Unit	
M 3x0.50	0.50 - 1.50	4.90	5.00	6.00	0.45	8.50	5.00	1.00	3860-M3	14,63	100
M 4x0.70	0.50 - 2.50	5.90	6.00	7.00	0.50	11.00	6.70	3.00	3860-M4	8,46	100
M 4x0.70	2.50 - 5.00	5.90	6.00	7.00	0.50	13.50	6.70	3.00	3860-M4E1	12,70	100
M 5x0.80	0.50 - 3.00	6.90	7.00	8.00	0.50	14.50	9.00	6.00	3860-M5	9,49	100
M 5x0.80	3.00 - 5.00	6.90	7.00	8.00	0.50	16.00	9.00	6.00	3860-M5E1	13,59	100
M 6x1.00	1.00 - 3.50	8.90	9.00	10.00	0.60	16.00	10.00	11.00	3860-M6	10,70	100
M 6x1.00	3.50 - 6.00	8.90	9.00	10.00	0.60	18.00	10.00	11.00	3860-M6E1	14,50	100
M 8x1.25	1.00 - 4.00	10.90	11.00	12.00	0.65	18.00	11.50	20.00	3860-M8	14,50	100
M 8x1.25	4.00 - 6.00	10.90	11.00	12.00	0.65	20.00	11.50	20.00	3860-M8E1	21,27	100
M 10x1.50	0.50 - 3.50	11.90	12.00	14.50	1.00	19.00	12.50	32.00	3860-M10	23,26	50
M 10x1.50	1.00 - 3.50	12.90	13.00	14.50	0.75	19.00	12.50	32.00	3860-M10E1	23,58	50
M 10x1.50	3.50 - 6.00	12.90	13.00	14.50	0.75	23.50	14.50	32.00	3860-M10E2	37,47	50
M 12x1.75	1.00 - 4.00	14.90	15.00	17.50	1.10	22.50	-	50.00	3860-M12	75,55	50
M 12x1.75	1.00 - 5.00	15.90	16.00	17.80	1.10	25.00	-	50.00	3860-M12E1	74,94	50
M 12x1.75	5.00 - 7.50	15.90	16.00	17.80	1.10	28.00	-	50.00	3860-M12E2	74,94	50

* Tutti i prezzi indicati si riferiscono a confezioni da 100 pezzi

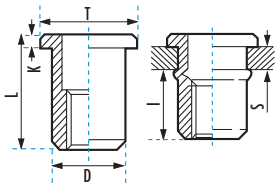
rivetsert by celesa

DADI PER RIVETTI CILINDRICI

M MF | M/MF | INOX



TESTA PIATTA

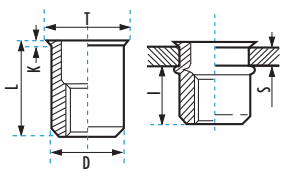


	S mm	D mm +0,07/-0,1	Ø +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	Nm		€/Unit	
M 3x0.50	0.30 - 1.80	4.90	5.00	8.00	0.75	9.00	5.50	2.00	**3950-M3**	-	25
M 4x0.70	0.50 - 2.00	5.90	6.00	8.50	0.80	10.50	6.00	5.00	**3950-M4**	**0,29**	25
M 5x0.80	0.50 - 2.50	6.90	7.00	10.00	1.00	13.00	7.50	8.50	**3950-M5**	**0,32**	25
M 6x1.00	0.50 - 3.00	8.90	9.00	12.30	1.30	15.50	9.20	15.00	**3950-M6**	**0,54**	25
M 8x1.25	1.00 - 3.50	10.90	11.00	15.00	1.50	18.50	11.50	26.00	**3950-M8**	**0,80**	25
M 10x1.50	0.80 - 3.50	11.90	12.00	16.00	1.70	19.00	10.50	50.00	**3950-M10**	-	1
M 10x1.50	1.00 - 4.00	12.90	13.00	17.00	1.60	21.00	12.50	50.00	**3950-M10E1**	**1,25**	1
M 12x1.75	1.00 - 4.00	14.90	15.00	18.00	1.70	22.00	13.50	80.00	**3950-M12**	-	1
M 12x1.75	1.00 - 4.00	15.90	16.00	23.00	2.00	26.00	16.50	80.00	**3950-M12E1**	-	1

- Consultare prezzo e disponibilità.



TESTA RIDOTTA

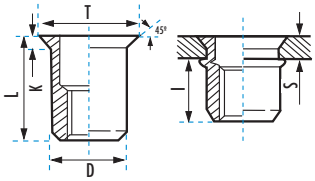


	S mm	D mm +0,07/-0,1	Ø +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	Nm		€/Unit	
M 3x0.50	0.30 - 1.50	4.90	5.00	5.60	0.35	8.50	5.50	1.00	**3951-M3**	-	25
M 4x0.70	0.50 - 2.00	5.90	6.00	7.00	0.50	10.50	6.50	3.00	**3951-M4**	**0,26**	25
M 5x0.80	0.50 - 2.00	6.90	7.00	8.00	0.50	11.50	7.00	6.00	**3951-M5**	**0,30**	25
M 6x1.00	0.50 - 2.50	8.90	9.00	10.00	0.60	14.00	8.50	11.00	**3951-M6**	**0,50**	25
M 8x1.25	0.50 - 3.00	10.90	11.00	12.00	0.50	16.50	10.50	20.00	**3951-M8**	**0,73**	25
M 10x1.50	0.80 - 3.00	11.90	12.00	13.50	0.80	18.00	10.20	32.00	**3951-M10**	-	1
M 10x1.50	1.00- 3.50	12.90	13.00	14.10	0.60	19.50	11.50	32.00	**3951-M10E1**	**1,22**	1
M 12x1.75	0.5 - 3.5	14.90	15.00	16.50	0.85	22.50	16.00	49.00	**3951-M12**	-	1

- Consultare prezzo e disponibilità.



TESTA SVASATA



	S mm	D mm +0,07/-0,1	Ø +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	Nm		€/Unit	
M 3x0.50	1.70 - 3.00	4.90	5.00	8.00	1.50	11.50	5.50	1.00	**3952-M3**	-	25
M 4x0.70	1.50 - 3.00	5.90	6.00	9.00	1.50	12.00	7.50	4.00	**3952-M4**	**0,35**	25
M 5x0.80	1.50 - 3.50	6.90	7.00	10.00	1.50	13.00	7.80	8.00	**3952-M5**	**0,39**	25
M 6x1.00	1.50 - 4.00	8.90	9.00	12.00	1.50	15.50	9.00	15.00	**3952-M6**	**0,56**	25
M 8x1.25	2.00 - 4.50	10.90	11.00	14.00	1.50	18.50	12.00	26.00	**3952-M8**	**0,84**	25
M 10x1.50	1.00 - 4.00	11.90	12.00	15.00	1.50	18.00	10.50	45.00	**3952-M10**	-	1
M 10x1.50	2.00 - 5.00	12.90	13.00	16.00	1.50	21.00	13.00	45.00	**3952-M10E1**	**1,25**	1

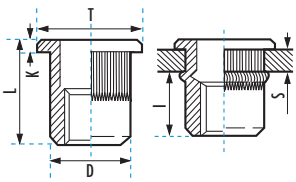
- Consultare prezzo e disponibilità.

INOX

DADI PER RIVETTI CILINDRICI STRIATI

3951



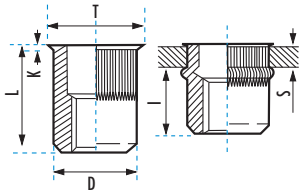


TESTA PIATTA

	S mm	D mm +0,07/-0,1	Ø +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	Nm		€/Unit	
M 3x0.50	0.50 - 1.50	4.90	5.00	7.00	0.80	10.00	5.00	2.00	3953-M3	-	25
M 3x0.50	1.50 - 3.00	4.90	5.00	8.00	0.75	10.00	5.50	2.00	3953-M3E1	-	25
M 4x0.70	0.50 - 2.00	5.90	6.00	9.00	0.80	10.50	6.50	5.00	3953-M4	0,29	25
M 4x0.70	2.50 - 4.00	5.90	6.00	9.00	0.75	12.50	6.50	5.00	3953-M4E1	-	25
M 5x0.80	0.50 - 2.50	6.90	7.00	10.00	1.00	13.00	8.00	8.50	3953-M5	0,32	25
M 5x0.80	2.00 - 4.00	6.90	7.00	10.00	1.00	16.00	8.00	8.50	3953-M5E1	-	25
M 6x1.00	0.50 - 3.00	8.90	9.00	12.30	1.30	15.50	9.20	15.00	3953-M6	0,54	25
M 6x1.00	3.50 - 6.00	8.90	9.00	13.00	1.50	19.00	9.00	15.00	3953-M6E1	0,74	25
M 8x1.25	1.00 - 3.50	10.90	11.00	14.50	1.50	18.50	11.50	26.00	3953-M8	0,80	25
M 8x1.25	3.00 - 6.00	10.90	11.00	14.50	1.50	21.00	11.50	26.00	3953-M8E1	1,02	25
M 10x1.50	0.80 - 3.50	11.90	12.00	16.00	1.70	19.00	10.50	50.00	3953-M10	1,48	1
M 10x1.50	3.50 - 6.00	11.90	12.00	16.00	1.70	22.00	10.50	50.00	3953-M10E1	-	1
M 10x1.50	1.00 - 4.00	12.90	13.00	17.00	1.60	21.00	13.50	50.00	3953-M10E2	1,25	1
M 10x1.50	3.00 - 6.00	12.90	13.00	19.00	2.00	26.00	14.50	50.00	3953-M10E3	1,77	1
M 12x1.75	1.00 - 4.00	14.90	15.00	18.00	1.70	22.00	13.50	80.00	3953-M12	-	1
M 12x1.75	4.00 - 6.50	14.90	15.00	18.00	1.70	25.00	14.00	80.00	3953-M12E1	-	1
M 12x1.75	1.00 - 4.00	15.90	16.00	23.00	2.00	25.00	16.50	80.00	3953-M12E2	2,11	1
M 12x1.75	3.50 - 7.00	15.90	16.00	23.00	1.60	29.00	16.50	80.00	3953-M12E3	-	

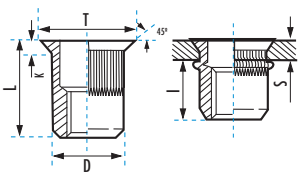
3952





TESTA RIDOTTA

	S mm	D mm +0,07/-0,1	Ø +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	Nm		€/Unit	
M 3x0.50	0.50 - 2.00	4.90	5.00	6.00	0.40	9.00	5.50	1.00	3954-M3	-	25
M 3x0.50	1.50 - 2.50	4.90	5.00	5.80	0.50	10.00	5.50	1.00	3954-M3E1	-	25
M 4x0.70	0.50 - 2.00	5.90	6.00	7.00	0.50	10.50	6.50	3.00	3954-M4	0,26	25
M 4x0.70	2.50 - 4.00	5.90	6.00	7.00	0.50	12.50	6.50	3.00	3954-M4E1	0,51	25
M 5x0.80	0.50 - 2.00	6.90	7.00	8.00	0.50	11.50	7.20	6.00	3954-M5	0,30	25
M 5x0.80	2.50 - 4.50	6.90	7.00	8.00	0.50	13.00	6.80	6.00	3954-M5E1	0,62	25
M 6x1.00	0.50 - 3.00	8.90	9.00	10.00	0.60	14.00	9.00	11.00	3954-M6	0,50	25
M 6x1.00	3.00 - 6.00	8.90	9.00	10.00	0.50	17.50	8.60	11.00	3954-M6E1	0,77	25
M 8x1.25	1.00 - 3.50	10.90	11.00	12.00	0.50	16.50	10.50	20.00	3954-M8	0,73	25
M 8x1.25	3.50 - 6.00	10.90	11.00	12.00	0.65	19.50	10.00	20.00	3954-M8E1	1,08	25
M 10x1.50	0.80 - 3.00	11.90	12.00	13.50	0.80	18.00	11.20	32.00	3954-M10	1,48	1
M 10x1.50	2.00 - 4.50	11.90	12.00	13.50	0.80	19.50	11.20	32.00	3954-M10E1	-	1
M 10x1.50	1.00 - 3.50	12.90	13.00	14.00	0.70	17.70	10.70	32.00	3954-M10E2	1,48	1
M 10x1.50	3.00 - 6.00	12.90	13.00	14.00	0.50	23.00	13.30	32.00	3954-M10E3	-	1
M 12x1.75	0.50 - 3.50	14.90	15.00	16.50	0.85	22.50	16.00	50.00	3954-M12	-	1
M 12x1.75	1.00 - 4.00	15.90	16.00	17.60	0.75	24.20	14.00	50.00	3954-M12E1	2,11	1
M 12x1.75	4.00 - 6.00	15.90	16.00	17.50	0.60	27.00	16.00	50.00	3954-M12E2	-	1

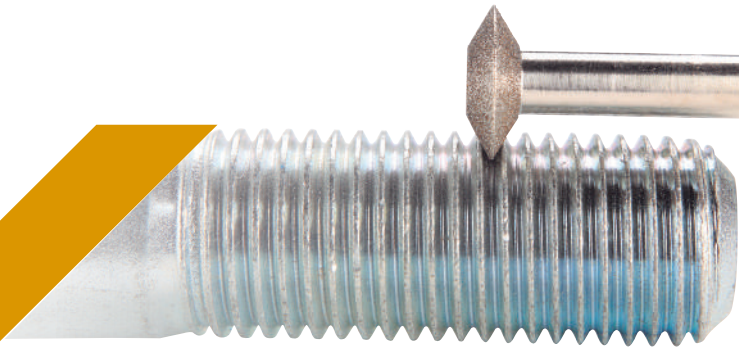


TESTA SVASATA

	S mm	D mm +0,07/-0,1	Ø +0,1/-0	T mm +/-0,3	K mm +/-0,15	L mm +/-0,3	I mm	Nm		€/Unit	
M 3x0.50	1.70 - 3.00	4.90	5.00	8.00	1.50	11.50	11.50	1.00	3955-M3	0,35	25
M 3x0.50	3.00 - 4.00	4.90	5.00	8.00	1.50	12.50	11.50	1.00	3955-M3E1	-	25
M 4x0.70	1.50 - 3.00	5.90	6.00	9.00	1.50	12.00	7.50	4.00	3955-M4	0,37	25
M 4x0.70	3.50 - 5.00	5.90	6.00	9.00	1.50	13.00	7.50	4.00	3955-M4E1	0,49	25
M 5x0.80	1.50 - 3.50	6.90	7.00	10.00	1.50	13.00	7.00	8.00	3955-M5	0,39	25
M 5x0.80	4.00 - 6.00	6.90	7.00	10.00	1.50	15.00	7.00	8.00	3955-M5E1	0,61	25
M 6x1.00	1.50 - 4.00	8.90	9.00	12.00	1.50	15.50	9.00	15.00	3955-M6	0,56	25
M 6x1.00	4.50 - 6.50	8.90	9.00	12.00	1.50	19.00	9.00	15.00	3955-M6E1	0,95	25
M 8x1.25	2.00 - 4.50	10.90	11.00	14.00	1.50	18.50	12.00	26.00	3955-M8	0,84	25
M 8x1.25	3.50 - 6.50	10.90	11.00	13.70	1.50	21.00	12.00	26.00	3955-M8E1	1,15	25
M 10x1.50	1.50 - 4.00	11.90	12.00	15.00	1.50	18.00	10.50	45.00	3955-M10	-	1
M 10x1.50	3.00 - 6.00	11.90	12.00	15.00	1.50	20.00	10.50	45.00	3955-M10E1	-	1
M 10x1.50	2.00 - 5.00	12.90	13.00	16.00	1.50	21.00	13.00	45.00	3955-M10E2	1,25	1
M 10x1.50	3.50 - 6.50	12.90	13.00	15.70	1.60	25.00	14.50	45.00	3955-M10E3	2,02	1
M 12x1.75	1.60 - 5.00	14.90	15.00	18.00	1.50	22.50	14.50	50.00	3955-M12	-	1
M 12x1.75	1.50 - 4.50	15.90	16.00	19.00	1.70	24.00	14.00	50.00	3955-M12E1	2,11	1
M 12x1.75	4.00 - 7.50	15.90	16.00	19.00	1.90	29.00	17.50	50.00	3955-M12E2	-	1

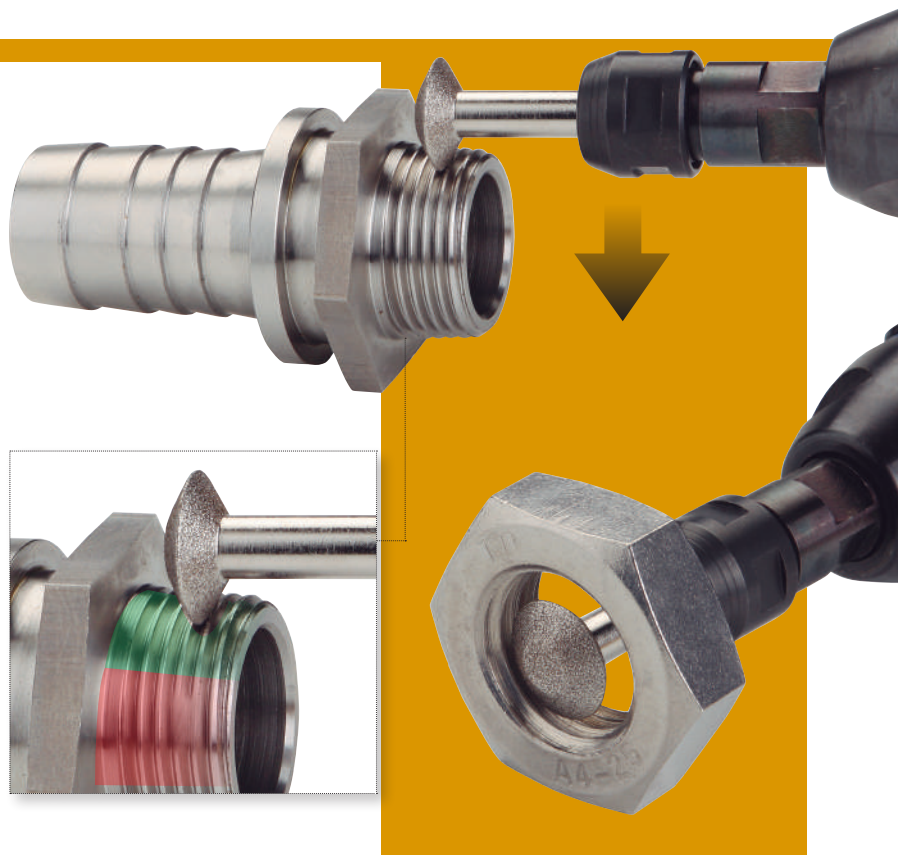
- Consultare prezzo e disponibilità.

ROTA THREAD®
by celesa

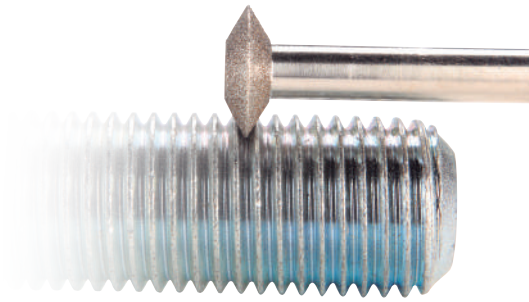


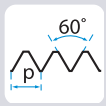
FRESE ROTATIVE CBN PER LA RIPARAZIONE DI FILETTATURE

- **Iniziare sui filetti buoni (zona verde) e lavorare sulla zona danneggiata (zona rossa). Ruotare l'utensile senza premere troppo forte lungo il profilo della filettatura per rilavorare i filetti danneggiati. Lasciare che lo utensile faccia il suo lavoro.**
- **Tenere pulito l'utensile e utilizzare olio da taglio per aumentare la durata e le prestazioni dell'utensile.**
- **Ripetere il passo uno su tutte le aree danneggiate.**



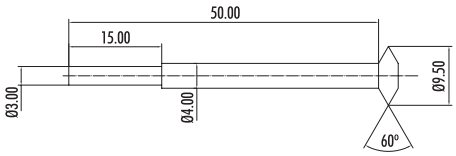
FRESE ROTATIVE CBN PER LA REPARAZIONE DI FILETTATURE







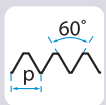
- Ripara accuratamente le filettature interne ed esterne.
- **Limitazioni:** Passo mínimo di 0,80 mm o 28 tpi.
  Per le filettature interne, la dimensione minima è M12 o 1/2 ".





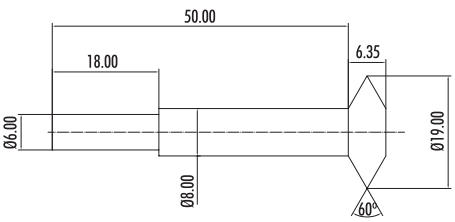
Ref. LRR1
55,86 €





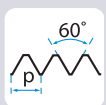


- Ripara accuratamente sia le filettature interne che esterne, in particolare i passi grossolani.
- **Limitazioni:** Passo mínimo di 2 mm o 12 fili. Per le filettature interne, la dimensione minima è M22 o 7/8.



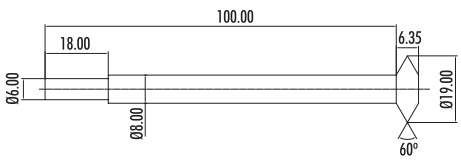


Ref. LRR2
70,76 €





- Ripara accuratamente sia le filettature interne che esterne, in particolare i passi grossolani. SERIE LUNGA.
- **Limitazioni:** Passo mínimo di 2 mm o 12 fili. Per le filettature interne, la dimensione minima è M22 o 7/8.



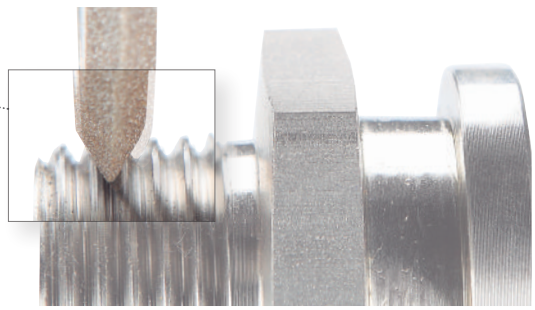


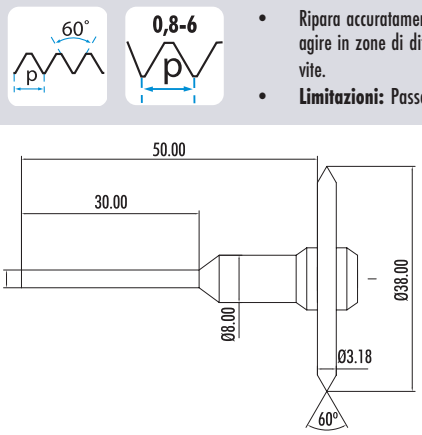
Ref. LRR3
80,07 €





ROTA THREAD® by celesa



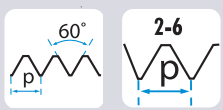


- Ripara accuratamente le filettature esterne. Diametro di 38mm per agire in zone di difficile accesso, come filetti vicine alla testa della vite.
- **Limitazioni:** Passo minimo di 0,80 mm o 28 fili.

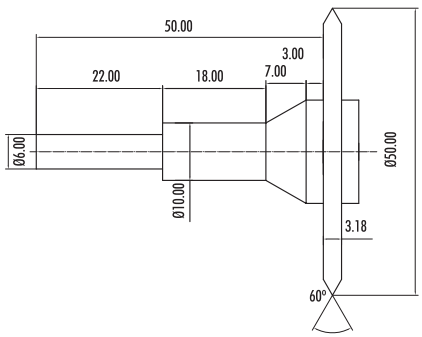


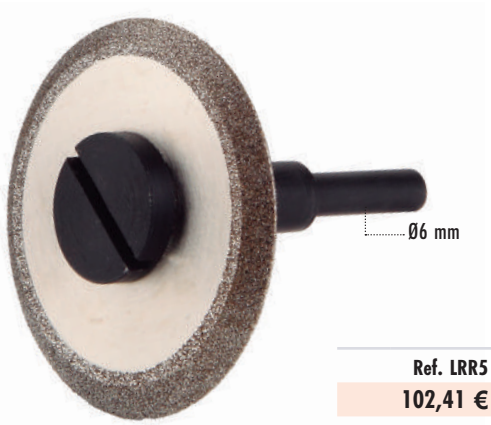
Ref. LRR4

85,65 €



- Ripara accuratamente le filettature esterne. Diametro di 50mm per agire in zone di difficile accesso, come filetti vicine alla testa della vite.
- **Limitazioni:** Passo minimo di 2 mm o 12 fili.





Ref. LRR5

102,41 €



SVASATORI ESTERNI PER RIPARAZIONE DEI FILETTI DI ATTACCO






Svasatori Esterni

Gli svasatori esterni vengono utilizzati per correggere i filetti iniziali di una vite o di una barra filettata. Queste filetti hanno potuto essere colpite e tagliate con la radiale, quindi la bava generata non consente l'inserimento di un dado. Il svasatore pulisce queste filetti e genera uno smusso di 60º che facilita l'inserimento del dado.

- Non genera calore né scintille.
- Il svasatore deve essere utilizzato a basse velocità (Max 500 giri / min).
- L'olio da taglio CUT MAGIC semplifica le operazioni.
- Comunemente utilizzato con trapani a mano e in particolare trapani a batteria.

HSS | 60°





MIN.-MAX.	⬡	L_1 mm		AVEXT €
M8-M18	1/4"	75	AVEXT	28,11

MIN.-MAX.	⬡		AVMDEXT €
5-25 mm	1/4"	AVMDEXT	32,36

INOX | **MD**

HSS | 60°



MIN.-MAX.	D_1 mm	D_2 mm	L_1 mm		AV €
M3-M8	3,0	8,0	55	AVX1-60	63,40
M6-M14	6,0	10,0	60	AVX2-60	121,66
M10-M27	10,0	13,0	75	AVX3-60	182,33

LIME PER LA RIPARAZIONE DI FILETTATURE

Facile da usare

Non acquistate, riparate.

Identificazione del passo: Se si ignora il passo della filettatura da riparare, inserire la lima nei filetti sani della filettatura fino a verificare che le creste e le valli combacino perfettamente, coprendo l'intero profilo in controluce. È importante trovare il passo esatto poiché ci sono passi che sembrano simili e possono portare a errori. Se ci confondiamo, rovineremo il pezzo definitivamente.

Riparazione: Una volta individuato il passo, limare delicatamente i filetti danneggiati, facendo corrispondere il profilo della lima a quello dei filetti danneggiati. Senza asprezza ma facendo funzionare la lima. Non vi preoccupate di andare troppo in profondità, la lima stessa limita la profondità del filetto. Si consiglia di iniziare con i filetti sani per guidare correttamente la lima. Utilizzare olio da taglio CUT MAGIC, che faciliterà la sbavatura. Controllare le condizioni della filettatura con un dado e se non si adatta liberamente, non forzarla e ripassare la filettatura nuovamente.

Per filettature esterne
Passi metrici:
0,75 - 1,00 - 1,25 - 1,50 - 1,75 - 2,00 - 2,50 - 3,00





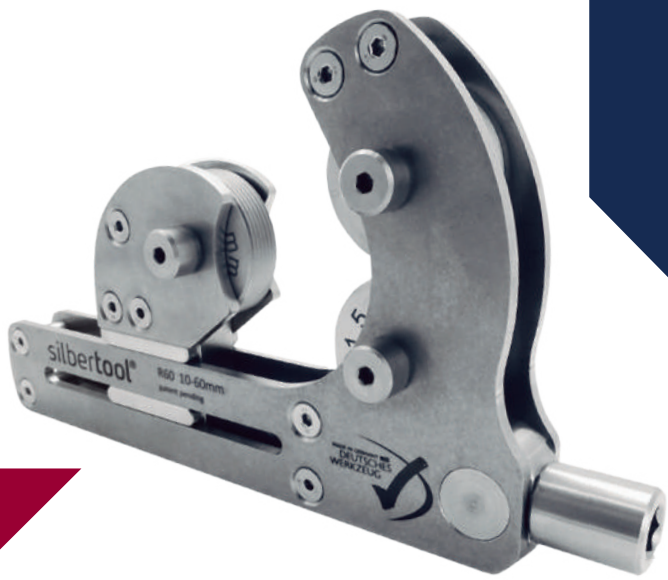
Rif. LR1
40,09 €

Per filettature esterne e interne
Passi metrici:
0,80 - 1,00 - 1,25 - 1,50 - 1,75 - 2,00 - 2,50 - 3,00





Rif. LR2
60,20 €



silbertool®
by celesa

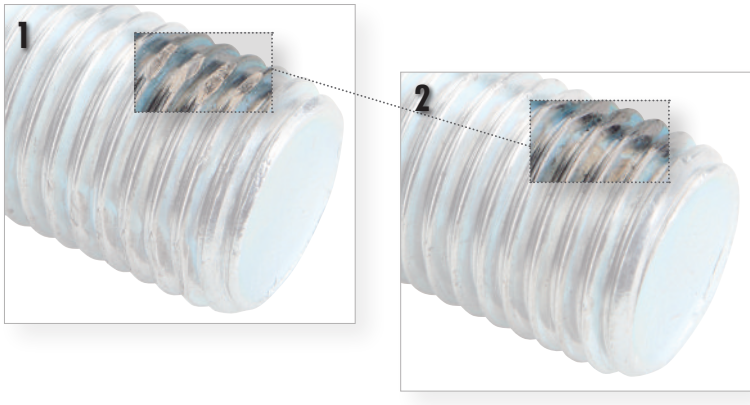
RIPARATORE DI FILETTATURE

ESTERNE MEDIANTE LAMINAZIONE

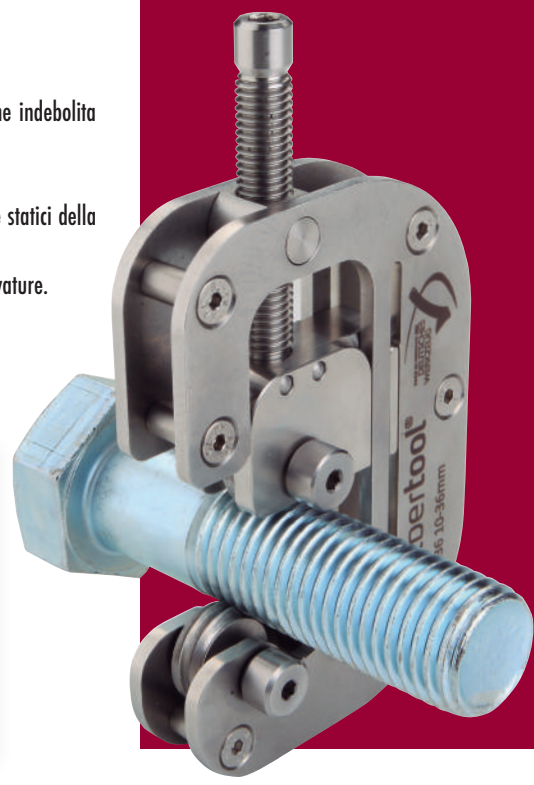
I riparatori di filettature Silbertool sono la soluzione perfetta per filettature estremamente danneggiate, che non possono essere riparate da filiere o altri riparatori di filettature esterne poiché una rimozione di materiale dei filetti comporterebbe un indebolimento irreparabile e renderebbe inutilizzabile il bullone o vite. L'ampia gamma di rulli con passi diversi offre versatilità in quanto cambiando solo i rulli si possono riparare filettature di passi molto diversi. Una volta stabilito il passo, è possibile riparare bulloni con lo stesso passo, ad esempio: M6X1, M8X1, M10X1, M12X1, M14X1, ecc ... versatile, facile e molto utile.

Vantaggi

- La filettatura viene riparata mediante stampaggio a freddo, quindi la filettatura riparata non viene indebolita ma piuttosto rinforzata.
- Tutti i passi vengono riparati con lo stesso utensile. Ogni rullo ha il suo passo.
- È stato dimostrato che una filettatura riparata con Silbertool® sopporta gli stessi carichi dinamici e statici della filettatura originale. Inoltre, ha dimostrato di offrire una maggiore resistenza alla fatica.
- Durante il processo di riparazione, la superficie della filettatura è perfettamente pulita; senza sbavature.
- Utilizzare il fluido da taglio Cut Magic per ridurre lo sforzo di riparazione.



RIPARAZIONE NON INVASIVA



RIPARATORE DI FILETTATURE ESTERNE MEDIANTE LAMINAZIONE

M
MF



Rif. R16



M / MF			R16 € / Unit
M5 - M16	0,50 - 2,00	**R16**	**394,18**

Non include i rulli.



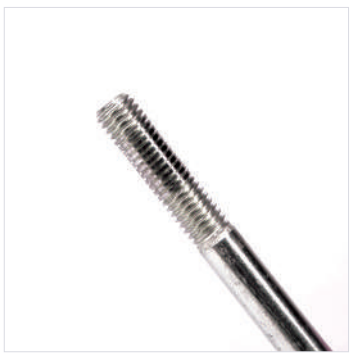
Rif. R160175



Rif. R160125

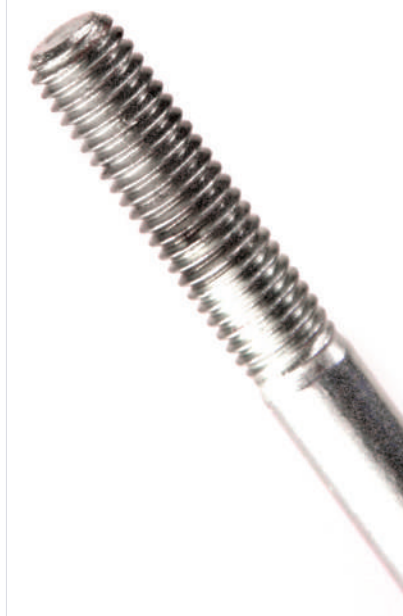
SERIE DI RULLI

M / MF			€ / Unit		€ / Unit
M5 - M16	0.50	**R160050**	**84,25**	**R16I0050**	**112,42**
M5 - M16	0.75	**R160075**	**84,25**	**R16I0075**	**112,42**
M5 - M16	0.80	**R160080**	**84,25**	**R16I0080**	**112,42**
M5 - M16	1.00	**R160100**	**84,25**	**R16I0100**	**112,42**
M5 - M16	1.25	**R160125**	**84,25**	**R16I0125**	**112,42**
M5 - M16	1.50	**R160150**	**84,25**	**R16I0150**	**112,42**
M5 - M16	1.75	**R160175**	**84,25**	**R16I0175**	**112,42**
M5 - M16	2.00	**R160200**	**84,25**	**R16I0200**	**112,42**















silbertool® by celesa

RIPARATORE DI FILETTATURE ESTERNE MEDIANTE LAMINAZIONE

M
MF

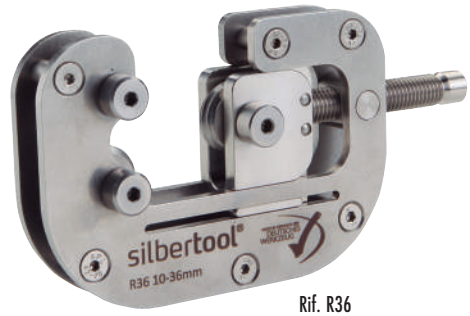


Rif. R360250



SERIE DI RULLI

M / MF			€ / Unit		€ / Unit
M10 - M36	0.50	R360050	128,37	R36I0050	154,10
M10 - M36	0.75	R360075	128,37	R36I0075	154,10
M10 - M36	1.00	R360100	128,37	R36I0100	154,10
M10 - M36	1.25	R360125	128,37	R36I0125	154,10
M10 - M36	1.50	R360150	128,37	R36I0150	154,10
M10 - M36	1.75	R360175	128,37	R36I0175	154,10
M10 - M36	2.00	R360200	128,37	R36I0200	154,10
M10 - M36	2.50	R360250	128,37	R36I0250	154,10
M10 - M36	3.00	R360300	128,37	R36I0300	154,10
M10 - M36	3.50	R360350	128,37	R36I0350	154,10
M10 - M36	4.00	R360400	128,37	R36I0400	154,10



Rif. R36

R36

M / MF			€ / Unit
M10 - M36	0.50 - 4.00	R36	900,12

Non include i rulli.


Rif. R600050



SERIE DI RULLI

M / MF			€ / Unit		€ / Unit
M10 - M60 - M110	0.50	R600050	231,27	R60I0050	257,00
M10 - M60 - M110	0.80	R600080	231,27	R60I0080	257,00
M10 - M60 - M110	1.00	R600100	231,27	R60I0100	257,00
M10 - M60 - M110	1.25	R600125	231,27	R60I0125	257,00
M10 - M60 - M110	1.50	R600150	231,27	R60I0150	257,00
M10 - M60 - M110	1.75	R600175	231,27	R60I0175	257,00
M10 - M60 - M110	2.00	R600200	231,27	R60I0200	257,00
M10 - M60 - M110	2.50	R600250	231,27	R60I0250	257,00
M10 - M60 - M110	3.00	R600300	231,27	R60I0300	257,00

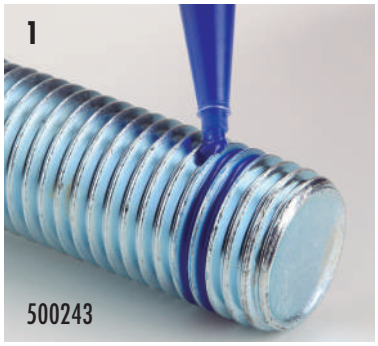


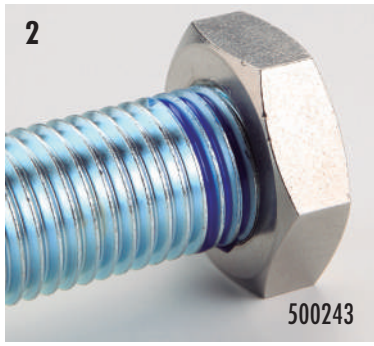
Rif. R60

R60/110

M / MF			€ / Unit
M10 - M60	0.50 - 3.00	R60	1.157,37
M50 - M110	0.50 - 3.00	R110	1.800,50

Non include i rulli.







Adesivi anaerobici per filettature

Questo prodotto è stato concepito per fissare e sigillare giunti filettati in ambito industriale, ottenendo negli stessi una maggiore resistenza meccanica.

Vantaggi

- La caratteristica principale degli adesivi anaerobici è l'indurimento del legame dopo il contatto metallo-metallo in assenza di aria.
- Così si ottiene un fisaggio resistente alle vibrazioni, agli urti ed estremamente resistente a prodotti chimici e solventi.
- Grazie allo stato liquido di POWERLOCK è possibile riempire completamente i vuoti del legame, sigillare le perdite e proteggere dalla corrosione provocata dagli agenti esterni, consentendo una maggiore durata del legame filettato. Inoltre, POWERLOCK è molto spesso applicato nel campo della sigillatura delle flange.
- L'applicazione di POWERLOCK è semplice e veloce; l'adesivo raggiunge l'indurimento iniziale in pochi minuti e l'indurimento finale in poche ore a temperatura ambiente.
- POWERLOCK è particolarmente adatto per tutti i metalli e per alcune plastiche.



500222

Principali applicazioni

- Connessioni bullonate da M5 a M36
- Consente di fissare saldamente cuscinetti, perni; cappuccio, bulloni, alberi e altre parti assemblate.
- Sigillano giunti idraulici e pneumatici.

Materiali attivi e passivi

Materiali attivi (Indurimento rapido)	Materiali Passivi (Indurimento lento)
• Bronzo • Ferro • Rame • Ottone • Acciaio	• Acciaio altamente legato • Alluminio, nichel, zinco, oro • Strati di ossido

	Colore	Intervallo di applicazione	Viscosità a +25ºC	Allentamento mass.	Resistenza alla rotura	Forza residua	Resistenza al cesoiamento (N/mm²)	Tempo di polimerizzazione fase iniziale a Tª ambiente	Tempo di polimerizzazione totale a Tª ambiente	Temperatura di lavoro	€
500222 *		M1-M36	1.000 mPa-s	0,20 mm	4-8 Nm	2-4 Nm	3-5 N/mm² (435-725 psi)	10-20 min.	3-6 h.	-60 - +150ºC (-76 - +302ºF)	**42,99**
500243 * *		M1-M36	2.000 - 7.000 mPa-s	0,25 mm	17-22 Nm	8-12 Nm	9-13 N/mm² (1.305-1.885 psi)	10-20 min.	1-3 h.	-60 - +150ºC (-76 - +302ºF)	**42,99**
500270 * * *		M1-M20	500 mPa-s	0,15 mm	28-35 Nm	50-65 Nm	15-20 N/mm² (2.175-2.900 psi)	10-20 min.	3-6 h.	-60 - +150ºC (-76 - +302ºF)	**42,99**

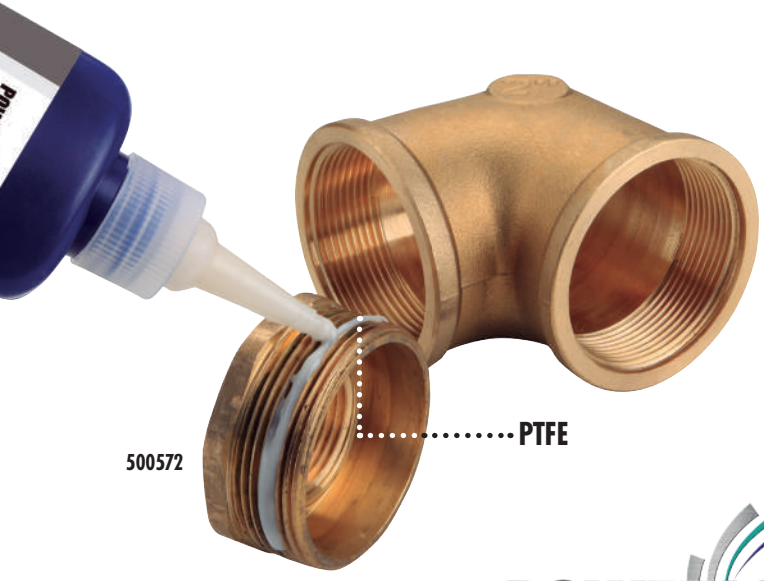
* Forza bassa (facile smontaggio) * * Forza media (smontaggio con utensile) * * * Forza alta (smontaggio con calore)

Pulizia pre-uso di adesivi e sigillanti

Il pulitore per superfici viene utilizzato per pulire e sgrassare le superfici da incollare o sigillare con adesivi e sigillanti POWERLOCK.
Pulisce ed evapora senza lasciare traccia.



500001
16,01 €





Sigillanti di filettature per tubi in impianti idraulici e pneumatici

I sigillanti per tubi filettati POWERLOCK prevengono le perdite di qualsiasi fluido gassoso e liquido utilizzato nell'industria, che vengono condotte a pressioni molto elevate

Vantaggi

- Sono resistenti alla maggior parte dei fluidi applicati nell'industria ed evitano l'ostruzione dei pezzi di raccordo (Curve, ecc ..) negli impianti idraulici e pneumatici (come accadrebbe utilizzando canapa o nastri di teflon).
- Il legame filettato è protetto contro la corrosione di tali fluidi e le diverse resistenze disponibili ne consentono lo smontaggio anche dopo diversi anni di stabile legame.
- I sigillanti POWERLOCK sono la scelta migliore per creare un legame filettato IMPERMEABILE ed evitare il rischio di perdite.



500542

Raccomandazioni per l'uso

Applicazione diretta

POWERLOCK si applica direttamente con la sua punta di dosaggio, evitando il contatto diretto della punta di dosaggio con il metallo. Per giunti pressati ed elementi di giunzione di grandi dimensioni, applicare su entrambe le superfici formando uno strato sottile ed uniforme. Per le filettature dei fori ciechi, applicare una quantità sufficiente di POWERLOCK al foro. Per viti e bulloni, applicare l'adesivo a forma anulare. Non versare il ritorno nella bottiglia il liquido POWERLOCK che è già stato a contatto con il metallo. Anche le particelle più fini portano all'indurimento nella bottiglia.

	Colore	Intervallo di applicazione	Viscosità a +25ºC	Allentamento mass.	Resistenza alla rotura	Forza residua	Resistenza al cesoiamento (N/mm^2)	Tempo di polimerizzazione fase iniziale a Tª ambiente	Tempo di polimerizzazione totale a Tª ambiente	Temperatura di lavoro	€
500542		G 1/8"-3/4"	500 mPa-s	0,15 mm	12-15 Nm	18-22 Nm	8-12 N/mm^2 (1.160-1.740 psi)	10-20 min.	2-4 h.	-60 - +150ºC (-76 - +302ºF)	42,99
500572 * *		G 1/8"-3"	17.000-50.000 mPa-s	0,40 mm	7-10 Nm	2-4 Nm	4-6 N/mm^2 (580-870 psi)	20-40 min.	5-10 h.	-60 - +150ºC (-76 - +302ºF)	25,84

** PTFE liquido

* Scheda dati di sicurezza disponible.

powercoil® by celesa

FREE	Inserto standard (libero)
LOCK	Inserto Autobloccante
M/MF	Metrica e metrica fine
UNC	Filettatura americana UNC
UNF	Filettatura americana fine UNF
BSW	Filettatura inglese Whitworth
BSF	Filettatura inglese fine Whitworth
BSP	Filettatura inglese BSP / GAS
NPT	Filettatura conica americana NPT
8-UN	Filetattura americana UN-8 fili
BA	Filettatura inglese BA
BSB	Filettatura inglese BSB (ottone)

...X	Codice famiglia
1.0D	Lunghezza inserto installato = Ø x 1.0
1.5D	Lunghezza inserto installato = Ø x 1,5
2.0D	Lunghezza inserto installato = Ø x 2.0
2.5D	Lunghezza inserto installato = Ø x 2,5
3.0D	Lunghezza inserto installato = Ø x 3.0
3.5D	Lunghezza inserto installato = Ø x 3,5
X.XD	Codifica della lungh. inserto installato = Øx "D"
AISI 304	Inserto di acciaio inossidabile 304
	Lunghezza filettatura candela
	Conformità su ordine speciale
	Conformità di inserto
HSS	Punta HSS
	Tampone passa, non passa

HSS	Maschi a mano HSS	
HSS	Maschi a mano	M/MF, UNC, UNF, 8 UN, NPT
HSS	Maschi a mano	BSW, BSF, BSP, BSB
HSS	Maschi a mano	BA
HSS-V3	Maschio con doppia entrata per candele	
HSS-V3	Maschio Elicoidale 35º HSS - V3 (3% V)	
HSS-V3	Maschio con entrata corretta F / B HSS-V3 3% V)	
TOL 5H-6H	Maschio in tolleranza 5H / 6H	
TOL (2B-3B)	Maschio in tolleranza 2B-3B	
	Bobina di inserti	
	Serie corti	
	Serie medie	
	Serie lunghi	
	Utensile di installazione manuale	



Diametro di inserto | Passo in mm e pollici | Lunghezza installata | Unità di imballaggio | No. di inserti | Diametro di Punta | Maschio | Utensile di installazione Nº | Rompi coda

BLUE-MASTER® by celesa



INFORMAZIONI TECNICHE

DEFINIZIONE DELLE ICONE

ICONE GENERALI

DIN - Norma DIN	TOL - Tolleranza	Plus Rendimento superiore rispetto agli utensili standard	★★ Qualità Standard
★★★ Qualità Professionale	★★★★ Qualità Extra-Professionale	★★★★★ Qualità Suprema	Premium Quality Qualità Premium

MATERIALI PER LA FABRICAZIONE DI UTENSILI

HSS Acciaio rapido HSS Qualità M2	HSS-G Acciaio rapido HSS Qualità M2 Rinvenimento Speciale	HSS V3 Acciaio rapido HSS 3% Vanadio Qualità M3:2	HSS PM Acciaio da metallurgia delle polveri ad alte prestazioni
HSS M3 Acciaio rapido HSS Qualità M3:1	HSSCo 5% Acciaio rapido HSSCo 5% Qualità M35	HSSCo 8% Acciaio rapido HSSCo 8% Qualità M42	HCS Acciaio al Carbonio
MD Metallo Duro	PMD Testa con Placchetta Metallo Duro saldata	MDI Metallo Duro Integrale	MG MD Metallo Duro Micro Grana
ASP Acciaio da Metallurgia delle Polveri	ASP 23 Acciaio da Metallurgia delle Polveri C:1,28 Cr:4,1 Mo:5,0 W:6,4 V:3,1	ASP 60 Acciaio da Metallurgia delle Polveri C:2,30 Cr:4,2 Mo:7,0 W:6,5 Co:10,5 V:6,5	CV Acciaio al Carbonio con Vanadio
X210 Cr12 Acciaio al Carbonio trattato X210 Cr12	BI Bimetallo	BI/CV Insieme misto Bimetallo / Carbonio Vanadio	PCV Policristallino
Testa con Placchetta Metallo Duro saldata	TUNGSTENO Polvere di Tungsteno Elettrodepositata	Punta Irwing con Placchetta Metallo Duro saldata	Diamante
T15 Super Acciaio da Metallurgia delle Polveri C:1,60 Cr:4,0 V:4,9 W:12,0 Co:5,0	K-10 Metallo Duro Qualità K10	P-20 Metallo Duro Qualità P20	Cu-Be Rame Berillio

FINITURE E RIVESTIMENTI DEGLI UTENSILI

OX Vaporizzato (Nero)	BRILLANTE Finitura brillante	DORATO Finitura dorata	TiAlN Rivestimento Nitruro di Titanio + Alluminio al alto rendimento per fresatura e perforazione in generale
TiN Rivestimento in Nitruro di Titanio	BLUE Rivestimento in Carbonitruro di Titanio	HARD LUBE Rivestimento alto rendimento a frizione ridotta per Filettatura in generale	TINALOX Rivestimento alto rendimento a frizione ridotta per Filettatura di pezzi fino a 120 Kg/mm2
CrN Rivestimento Nitruro di Cromo	TiCN Rivestimento speciale Blu per fresatura di pezzi temprati	DiATiN Rivestimento misto in Diamante e TiN alto rendimento nell'avvitamento	TiAlSiN Rivestimento Nitruro di Titanio + Alluminio + additivi specifici per Inox, Titanio, Nichel
HARDTOP Rivestimento ad alta durezza e resistenza all'usura e all'abrasione.			

AFFILATURA DELLE PUNTE

Affilatura convenzionale118º	Affilatura a croce (Split point)	Affilatura con placchetta saldata	135º Affilatura con guida di centraggio XTurbo
Affilatura convenzionale	Affilatura a croce (Split point)	Affilatura con taglio corretto	Placchetta in Metallo Duro per calcestruzzo
Affilatura a croce con refrigerazione interna	Affilatura a tripla sfaccettatura per Inox	Affilatura speciale QUALSIASI TERRENO	Affilatura con rompitrucioli per perforazione dell'Inox
Affilatura con angolo di taglio corretto per materiali temprati 70HRc	Affilatura acuminata del nucleo	Affilatura acuminata del nucleo con refrigerazione interna	Affilatura a quattro taglienti
Affilatura speciale per cilindri con perni antiperforazione			

DEFINIZIONE DELLE ICONE

ELICHE DEGLI UTENSILI

- Angolo elica dei canali delle punte
- Angolo elica degli alesatori
- Alesatore a canali dritti
- Angolo elica chiusa per alesatori
- Angolo elica delle frese a 3 taglienti
- Angolo elica delle frese di vari tagli
- Angolo elica delle frese frontali a 2 taglienti
- Angolo elica delle frese radiali a 2 taglienti
- Angolo elica delle frese a 2 taglienti
- 35° 38° Angolo elica variabile: minimizza vibrazioni e migliora rendimento
- Angolo elica dei maschi
- TIPO S Angolo elica delle punte per Legno e Metallo

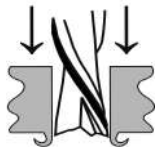
A



Estrazione di truciolo

Taglio destra
Elica destra

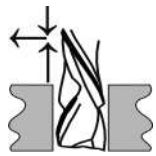
B



Estrazione di truciolo

Taglio destra
Elica sinistra

C



Estrazione di truciolo

Doppia elica
Doppia elica
Sinistra-Destra

TIPI DI CODOLI

- SDS Plus Codolo SDS PLUS
- SDS Max Codolo SDS-MAX
- SDS Quick Per trapani Tipo UNEO
- CILINDRICO Codolo Cilindrico
- WELDON Codolo WELDON
- WELDON Codolo WELDON secondo DIN 1835B
- CONICO Codolo Conico
- Ø ≥ 3 Codolo antiscivolo, 3 piani di trascinamento
- Codolo ridotto per attacco con mandrini
- 1/4" Codolo Esagonale (1/4" = 6,35 mm)
- Codolo Esagonale
- GAMMON Codolo GAMMON
- Codolo ridotto per attacco con mandrini

APPLICAZIONI DEGLI UTENSILI

- INOX Acciai Inossidabili: AISI 304, AISI316, AISI316L
- INOX Plus Utensile ad alto rendimento per Acciai Inossidabili: AISI 304, AISI316, AISI316L
- Al Alluminio fuso e le sue leghe in generale
- OTTONE Ottone
- GHISA Ghisa nodulare, malleabile, grigia,...
- Metallo
- Kg/mm² Metalli fino a - Kg/mm^2
- HRc Metalli temprati fino a - HRc (Rockwell)
- PRODUZIONE Utensile per produzione e grande serie
- ALTA PRODUZIONE Utensile per produzione intensiva e grande serie
- Cu Rame e le sue leghe
- LAMINAZIONE Filettatura per laminazione o deformazione
- INC INCONEL: Lega refrattaria ad alto contenuto di Nichel
- Ni Leghe di Nichel in generale
- Ex Valido per lavori in atmosfera esplosiva
- Ti Titanio e le sue leghe
- Legno in generale
- Punta per fori quadrati nel legno
- Legno Duro
- Compensato
- Legno con chiodi, pallet
- Pannelli in fibra di legno (MDF)
- Truciolato
- Pannelli Sandwich
- Pannelli laminati
- Plexiglas
- Tubi in acciaio
- Tubi in ghisa grigia
- Lamiera deformata
- Lama speciale per la potatura di alberi
- Carrozzerie e lamiere sottili
- PVC PVC Plastiche in generale
- Lama a taglio curvilineo per legno
- Lama a taglio curvilineo per metalli
- Fibra di vetro e fibra di carbonio
- Vetro e Cristallo

DEFINIZIONE DELLE ICONE

APPLICAZIONI DEGLI UTENSILI


Profili per finestre in PVC e Alluminio


Marmo, Granito



Acciaio inossidabile con ottima resistenza alla corrosione e altissima resistenza meccanica


Lamiera ondulata



Metalli non ferrosi: Rame, Nichel, Ottone


Ceramica


Alimentazione


Tubi in plastica o gomma flessibili, Materiali isolanti


Cartone, Gomma, Cuoio


Cuoio, Pelle


Profilati Metallici


Gomma, Caucciù


Mattone



Alta produzione e rendimento in serie grandi



Utensili per macchine CNC


Pallet


Calcestruzzo cellulare


Intonaco di cartone



Acciaio di elevata durezza e resistenza all'usura e all'abrasione


Legno naturale e altri materiali


Uso esclusivo per scanalature


Gesso


Fibra di carbonio e materiali compositi


Tubi Flessibili Idraulici


Porcellana


Gres


Pietra naturale


Calcestruzzo armato e lavato


Tegola


Marmo bianco


Marmo nero


Calcestruzzo cellulare


Calcestruzzo


Asfalto. Pavimento.


Arenaria, calcarea


Finitrice, terrazzo


Blocco e Tavelloni in calcestruzzo


Pavimentazione


Tubi in PVC


Profilo, doga in legno, come battiscopa, corrimano...


Atmosfere esplosive


Aeronautica


Raschiatura e preparazione della superficie.


Preparazione della superficie per la successiva verniciatura


Preparazione, carteggiatura superficiale per successiva verniciatura o tappezzeria


Sollevamento di piastrelle e tegole


Sollevamento, raschiatura di moquette e adesivo

ANGOLI DI TAGLIO

PUNTE A CENTRARE



Secondo Norma DIN333A



Secondo Norma DIN333B



Secondo Norma DIN333R

SVASATORI



Svasatore a 60º



Svasatore a 75º



Svasatore a 90º



Svasatore a 120º



Svasatore multitaglio a 60º



Svasatore multitaglio a 90º



Svasatore multitaglio a 120º



Svasatore esterno 90º



Svasatore esterno 60º



Fresa a sbavare 60º



Fresa a sbavare 90º

FRESE



Fresa ad angolo isoscele 45º



Fresa ad angolo isoscele 60º

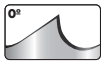


Fresa ad angolo isoscele 90º

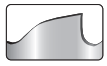


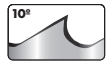
Fresa ad angolo semplice

LAME A NASTRO

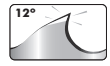


Angolo del dente 0º


Dentatura rinforzata



Angolo del dente 10º



Angolo del dente 12º Rettificato

DEFINIZIONE DELLE ICONE

ANGOLI DI TAGLIO

SGROSSATURA DELLE FRESE E TIPI DI GRANA DELLE LAME



Sgrossatura media Tipo NR



Sgrossatura grossa Tipo NM



Sgrossatura fine Tipo NF



Carburo di tungsteno elettrodepositato Grana fine



Carburo di tungsteno elettrodepositato Grana media



Carburo di tungsteno elettrodepositato Grana grossa

NUMERO DI TAGLI

GENERALE



Numero dei denti



Multitaglio


Fresa a 2 taglienti con taglio al centro


Fresa a 3 taglienti con taglio al centro

FRESAS


Fresa a 4 taglienti con taglio al centro


Fresa multitagliente con taglio al centro


Fresa a 4 taglienti senza taglio al centro

PUNTE PER EDILIZIA


Testa con 3 taglienti in metallo duro integrale

ALESATORI


Punta alesatrice a 3 taglienti senza taglio al centro


Punta alesatrice multitagliente senza taglio al centro

DEFINIZIONE DELLE ICONE PER FAMIGLIA

PUNTE PER METALLO


Punta con rotazione a sinistra

MANDRINI



Bloccaggio automatico



Diseño ligero

MACHOS DE ROSCAR


Maschi con guida pilota per allineamento del maschio sgrossatore


Maschio per laminazione con scanalature


Maschio per laminazione senza scanalature



Maschi a mano per alluminio e le sue leghe


Maschi a denti alternati per fori passanti in alluminio


Maschi a due canali per fori ciechi in alluminio


Filettatura con maschio sinistro

UTENSILI PER TORNIO


Utensili per tornio quadrati


Utensili per tornio rotondi


Utensili per tornio rettangolari


Utensili per tornio trapezoidali


Utensili per tornio trapezoidali irregolari

CALIBRI FILETTATI



Profilo di filettatura



Conicità filettatura NPT (1/16)



Certificato

LAME A NASTRO E PER SEGHETTI ALTERNATIVI


Profilo del dente rettificato


Dente con placchetta in metallo duro saldata



Taglio inverso.
Buona finitura in uscita


Tipo di dente

INSERTI PER AVVITATORE


Phillips


Pozidriv


Testa ad intaglio


Torx


Torx rotonda


Testa quadra Robertson


Torx tamper resistant


Testa esagonale


Tri Wing


Xzn

PUNTE PER EDILIZIA, FRESE E SEGHE A TAZZA


Refrigerazione ad acqua


Lavoro a secco


Modalità a percussione


Modalità a rotazione

TABELLA GIRI AL MINUTO (R.P.M.) IN FUNZIONE DI Ø PUNTA E VELOCITÀ DI TAGLIO (VC)

VELOCITÀ DI TAGLIO	Ø PUNTA E GIRI AL MINUTO																
Vc (m/min)	2	2,5	3	4	5	6,5	8	10	13	16	20	25	30	40	50	63	80
3	477	382	318	238	190	147	119	95	73	60	48	38	32	24	19	15	12
5	796	636	530	398	318	245	198	159	122	99	80	64	53	40	32	25	20
8	1.273	1.018	848	636	509	392	318	254	195	159	127	102	85	64	50	40	32
10	1.592	1.273	1.061	795	636	490	398	318	245	199	159	127	106	80	64	50	40
12	1.910	1.528	1.273	955	764	588	477	382	294	238	190	152	127	95	76	60	48
15	2.387	1.910	1.592	1.194	955	735	596	477	367	298	138	190	159	119	95	75	60
20	3.183	2.546	2.122	1.592	1.273	979	795	636	490	398	318	255	212	159	127	101	80
25	3.979	3.183	2.652	1.989	1.592	1.224	995	795	612	497	398	318	165	198	159	126	99
30	4.775	3.820	3.183	2.387	1.910	1.469	1.194	995	735	596	477	382	318	238	190	151	119
35	5.570	4.456	3.714	2.785	2.228	1.714	1.393	1.114	857	696	557	445	371	278	222	176	139
40	6.366	5.092	4.245	3.183	2.456	1.958	1.592	1.273	979	795	636	509	424	318	255	202	159
45	7.162	5.730	4.775	3.581	2.865	2.204	1.790	1.432	1.102	895	716	572	477	358	286	227	179
50	7.958	6.366	5.305	3.978	3.183	2.448	1.990	1.592	1.224	995	795	636	530	398	318	252	198
55	8.754	7.002	5.836	4.376	3.501	2.693	2.188	1.750	1.346	1.094	875	700	584	438	350	277	218
60	9.550	7.639	6.366	4.775	3.820	2.938	2.388	1.910	1.469	1.194	955	764	636	477	382	303	238
70	11.142	8.912	7.428	5.570	4.456	3.428	2.785	2.228	1.714	1.392	1.114	891	742	557	445	354	278
75	11.937	9.549	7.958	5.968	4.775	3.672	2.981	2.387	1.836	1.492	1.194	955	795	594	477	378	298
80	12.732	10.185	8.488	6.366	5.092	3.918	3.183	2.546	1.958	1.592	1.273	1.018	848	636	509	404	318
90	14.324	11.459	9.550	7.162	5.730	4.407	1.581	2.865	2.204	1.790	1.432	1.145	955	716	572	455	358
100	15.915	12.732	10.611	7.958	6.366	4.897	3.978	3.183	2.448	1.989	1.592	1.273	1.061	795	636	505	398

TABELLA DEI AVANZAMENTI

Ø mm	A	B	C	D	E	F
2,0	0,020	0,025	0,032	0,040	0,050	0,063
2,5	0,025	0,032	0,040	0,050	0,063	0,080
3,0	0,030	0,040	0,050	0,060	0,080	0,100
4,0	0,040	0,050	0,063	0,080	0,100	0,125
5,0	0,040	0,050	0,063	0,080	0,100	0,125
6,5	0,050	0,063	0,080	0,100	0,125	0,160
8,0	0,063	0,080	0,100	0,125	0,160	0,200
10,0	0,080	0,100	0,125	0,160	0,200	0,250
13,0	0,090	0,110	0,130	0,180	0,220	0,270
16,0	0,100	0,125	0,160	0,200	0,250	0,315
20,0	0,125	0,160	0,200	0,250	0,315	0,400
25,0	0,160	0,200	0,250	0,315	0,100	0,500
30,0	0,160	0,200	0,250	0,315	0,100	0,500
40,0	0,200	0,250	0,315	0,400	0,500	0,630
50,0	0,250	0,315	0,400	0,500	0,630	0,800
63,0	0,315	0,400	0,500	0,630	0,800	1,000
80,0	0,400	0,500	0,630	0,800	1,000	1,250

NOTA: Questi valori sono indicativi, validi per le seguenti condizioni di utilizzo

- Avanzamento di perforazione uniforme.
- Utilizzo di punte da trapano con dimensioni secondo DIN 338 o DIN 345
- Qualità HSS e HSSCo
- Lunghezza massima di foratura pari a 3 volte il diametro della punta.
- Buona stabilità e rigidità in macchina e nel fissaggio (bloccaggio) del pezzo.
- Senza boccole centrapunte.
- Buon raffreddamento (refrigerante, flusso, pressione)
- Foratura verticale, entrata e uscita della punta, perpendicolare alla superficie da forare.

Se le condizioni sopra descritte non sono soddisfatte, i valori di velocità di taglio e/o avanzamento vanno variati diminuendoli o aumentandoli.

TABELLA DI VELOCITÀ (R.P.M.) PER SVASATORI



MATERIALI	Acciaio <700N/mm2	Acciaio >700N/mm2	Ac. Legato 1000N/mm2	Ghisa <250N/mm2	Ghisa >250N/mm2	Ac. Inox <1000N/mm2	Ottone Frágil	Ottone Duro	Alluminio < 11 %	Plastica Dolce	Plastica Dura
Lubrificante	X	X	X	X	X	X	X	X	X	Acqua	Aria
Vc (m/min)	15	10	6	12	8	6	20	15	25	20	15
Diam. mm	U/min R.P.M.	U/min R.P.M.	U/min R.P.M.	U/min R.P.M.	U/min R.P.M.	U/min R.P.M.	U/min R.P.M.	U/min R.P.M.	U/min R.P.M.	U/min R.P.M.	U/min R.P.M.
4,3	1100	740	440	890	590	444	1480	1110	1850	1480	1110
5,0	950	640	380	760	510	382	1270	950	1590	1270	950
5,3	900	600	360	720	480	360	1200	900	1500	1200	900
5,8	820	550	330	660	440	329	1100	820	1370	1100	820
6,0	800	530	320	640	420	318	1060	800	1330	1060	800
6,3	760	510	300	610	400	303	1010	760	1260	1010	760
7,0	680	450	270	550	360	273	910	680	1140	910	680
7,3	650	440	260	520	350	262	870	650	1090	870	650
8,0	600	400	240	480	320	239	800	600	990	800	600
8,3	580	380	230	460	310	230	770	580	960	770	580
9,4	510	340	200	410	270	203	680	510	850	680	510
10,0	480	320	190	380	250	191	640	480	800	640	480
10,4	460	310	180	370	240	184	610	460	770	610	460
11,5	420	280	170	330	220	166	550	420	690	550	420
12,4	390	260	150	310	210	154	510	390	640	510	390
13,4	360	240	140	290	190	143	480	360	590	480	360
14,4	340	220	130	270	170	133	450	320	550	450	320
15,0	320	210	130	250	170	127	420	320	530	420	320
16,5	290	190	120	230	150	116	390	290	480	390	290
19,0	250	170	100	200	130	101	340	250	420	340	250
20,5	230	160	90	190	120	93	310	230	360	310	230
23,0	210	140	80	170	110	83	280	210	350	280	210
25,0	190	130	80	150	100	76	250	190	320	250	190
26,0	180	120	70	150	100	73	240	180	310	240	180
28,0	170	110	70	140	90	68	230	170	280	230	170
30,0	160	110	60	130	80	64	210	160	270	210	160
31,0	150	100	60	120	80	62	210	150	260	210	150
32,0	150	100	60	120	80	60	210	150	260	210	150
34,0	140	90	60	110	70	56	190	140	230	190	140
37,0	130	90	50	100	70	52	170	130	220	170	130
40,0	120	80	50	100	60	48	160	150	200	160	120
50,0	100	60	40	80	50	38	130	100	160	130	100
63,0	80	50	30	60	40	30	100	80	130	100	80
80,0	60	40	20	50	30	24	80	60	100	80	60

FORMULE DI CONVERSIONE

$$R.P.M = \frac{Vc \times 1.000}{Ø \times TT}$$

$$Vc = \frac{R.P.M \times Ø \times TT}{1.000}$$

R.P.M. = ROTAZIONI PER MINUTO
Vc. = VELOCITÀ DI TAGLIO IN METRI/MINUTO
Ø = DIAMETRO DELLA PUNTA
÷ = 3,1416

ESEMPIO PRATICO:

- Materiale da forare: ALLUMINIO
- Gruppo di materiali: ALU < 11%
- Ø Punta: 10 mm
- Vc: 25 m / min (Tabella)

$$R.P.M : \frac{Vc \times 1.000}{Ø \times \pi} : \frac{25 \times 1.000}{10 \times \pi} = 800$$

PARAMETRI DI TAGLIO PER FRESE HSS / HSSCO / ASP

	Durezza (N/mm^2)	Ø Fresa (mm)	Velocità di taglio (m./min.)	Avanzamento x dente Fz (mm)
ACCIAI PER EDILIZIA O ACCIAI POCO LEGATI	< 400	4 - 8 8 - 12 12 - 20 20 - 32 32 - 50	--38 - 42 65 - 75	0.01 - 0.03 0.03 - 0.05 0.05 - 0.07 0.07 - 0.10 0.10 - 0.12
ACCIAI LEGATI E TRATTATI	< 700	--4 - 8 8 - 12 12 - 20 20 - 32 32 - 50	32-36 55-65	0.01 - 0.04 0.04 - 0.05 0.05 - 0.07 0.07 - 0.10 0.10 - 0.12
ACCIAI LEGATI E TRATTATI	< 950	4 - 8 8 - 12 12 - 20 20 - 32 32 - 50	30 - 34 50 - 60	0.02 - 0.04 0.04 - 0.05 0.05 - 0.07 0.07 - 0.09 0.09 - 0.11
ACCIAI LEGATI E TRATTATI	< 1400	4 - 8 8 - 12 12 - 20 20 - 32 32 - 50	16 - 20 30 - 40	0.01 - 0.03 0.03 - 0.04 0.04 - 0.06 0.06 - 0.07 0.07 - 0.09
ACCAIAI INOSSIDABILI	< 700	4 - 8 8 - 12 12 - 20 20 - 32 32 - 50	14 - 18 22 - 26	0.01 - 0.03 0.03 - 0.05 0.05 - 0.07 0.07 - 0.10 0.10 - 0.13
GHISA GRIGIA	100 - 800	4 - 8 8 - 12 12 - 20 20 - 32 32 - 50	20 - 24 38 - 42	0.02 - 0.04 0.04 - 0.06 0.06 - 0.08 0.08 - 0.11 0.11 - 0.13
LEGHE DI ALLUMINIO (SI > 10%)	140 - 610	4 - 8 8 - 12 12 - 20 20 - 32 32 - 50	100 - 150 150 - 200	0.03 - 0.06 0.06 - 0.07 0.07 - 0.10 0.10 - 0.14 0.14 - 0.17
LEGHE DI ALLUMINIO (SI>10%)	160 - 420	4 - 8 8 - 12 12 - 20 20 - 32 32 - 50	60 - 100 80 - 120	0.03 - 0.06 0.06 - 0.08 0.08 - 0.11 0.11 - 0.15 0.15 - 0.19
OTTONE A TRUCIOLO LUNGO E BRONZO	< 500	4 - 8 8 - 12 12 - 20 20 - 32 32 - 50	50 - 70 80 - 120	0.01 - 0.03 0.03 - 0.05 0.05 - 0.08 0.08 - 0.09 0.09 - 0.11
LEGHE DI TITANIO	< 1100	4 - 8 8 - 12 12 - 20 20 - 32 32 - 50	12 - 16 22 - 26	0.01 - 0.03 0.03 - 0.05 0.05 - 0.07 0.07 - 0.09 0.09 - 0.10
LEGHE REFRATTARIE, BASE CO, NI	< 1100	4 - 8 8 - 12 12 - 20 20 - 32 32 - 50	6 - 14 12 - 24	0.01 - 0.03 0.03 - 0.05 0.05 - 0.07 0.07 - 0.09 0.09 - 0.10

Frese con rivestimento

FORMULE DI CONVERSIONE

$$R.P.M = \frac{Vc \times 1.000}{TT \times Ø}$$

Velocità di avanzamento = R.P.M. x Z x Fz (mm/min.)

R.P.M. = ROTAZIONI PER MINUTO
Vc. = VELOCITÀ DI TAGLIO (m./min.)
Ø = DIAMETRO DELLA FRESA
TT = 3,1416
Z = Nº DEI DENTI
Fz = AVANZAMENTO X DENTE

PARAMETRI DI TAGLIO PER FRESE IN METALLO DURO

	Durezza (N/mm^2)	Ø Fresa (mm)	Velocità di taglio (m./min.)	Avanzamento x dente Fz (mm)
ACCIAI PER EDILIZIA O ACCIAI POCO LEGATI	< 400	2 - 4 4 - 8 8 - 12 12 - 16 16 - 25	80 - 120 96 - 144	0.01 - 0.02 0.02 - 0.05 0.05 - 0.06 0.06 - 0.08 0.08 - 0.10
ACCIAI LEGATI E TRATTATI	< 700	2 - 4 4 - 8 8 - 12 12 - 16 16 - 25	60 - 100 72 - 120	0.01 - 0.02 0.02 - 0.04 0.04 - 0.05 0.05 - 0.06 0.0 6- 0.08
ACCIAI LEGATI E TRATTATI	< 950	2 - 4 4 - 8 8 - 12 12 - 16 16 - 25	60 - 80 72 - 96	0.01 - 0.02 0.02 - 0.04 0.04 - 0.05 0.05 - 0.06 0.06 - 0.08
ACCIAI LEGATI E TRATTATI	< 1400	2 - 4 4 - 8 8 - 12 12 - 16 16 - 25	20 - 60 24 - 72	0.005 - 0.015 0.015 - 0.02 0.02 - 0.03 0.03 - 0.05 0.05 - 0.08
ACCAIAI INOSSIDABILI	< 700	2 - 4 4 - 8 8 - 12 12 - 16 16 - 25	40 - 80 48 - 96	0.005 - 0.015 0.015 - 0.02 0.02 - 0.03 0.03 - 0.05 0.05 - 0.08
GHISA GRIGIA	100 - 800	2 - 4 4 - 8 8 - 12 12 - 16 16 - 25	50 - 100 60 - 120	0.01 - 0.03 0.03 - 0.05 0.05 - 0.06 0.06 - 0.08 0.08 - 0.12
LEGHE DI ALLUMINIO (SI > 10%)	140 - 610	2 - 4 4 - 8 8 - 12 12 - 16 16 - 25	240 - 400 290 - 480	0.02 - 0.05 0.05 - 0.08 0.08 - 0.12 0.12 - 0.15 0.15 - 0.20
LEGHE DI ALLUMINIO (SI>10%)	160 - 420	2 - 4 4 - 8 8 - 12 12 - 16 16 - 25	125 - 300 150 - 360	0.02 - 0.05 0.05 - 0.08 0.08 - 0.12 0.12 - 0.15 0.15 - 0.20
OTTONE A TRUCIOLO LUNGO E BRONZO	< 500	2 - 4 4 - 8 8 - 12 12 - 16 16 - 25	100 - 200 120 - 240	0.15 - 0.03 0.03 - 0.04 0.04 - 0.06 0.06 - 0.08 0.08 - 0.10
LEGHE DI TITANIO	< 1100	2 - 4 4 - 8 8 - 12 12 - 16 16 - 25	20 - 40 24 - 48	0.005 - 0.015 0.015 - 0.02 0.02 - 0.03 0.03 - 0.05 0.05 - 0.08
LEGHE REFRATTARIE, BASE CO, NI	< 1100	2 - 4 4 - 8 8 - 12 12 - 16 16 - 25	20 - 50 24 - 60	0.005 - 0.015 0.015 - 0.02 0.02 - 0.03 0.03 - 0.05 0.05 - 0.08

Frese con rivestimento

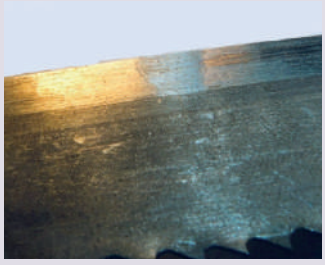
FORMULE DI CONVERSIONE

$$R.P.M = \frac{Vc \times 1.000}{TT \times Ø}$$

Velocità di avanzamento = R.P.M. x Z x Fz (mm/min.)

R.P.M. = ROTAZIONI PER MINUTO
Vc. = VELOCITÀ DI TAGLIO (m./min.)
Ø = DIAMETRO DELLA FRESA
TT = 3,1416
Z = Nº DEI DENTI
Fz = AVANZAMENTO X DENTE

VALUTAZIONE DEI RECLAMI DI LAME A NASTRO



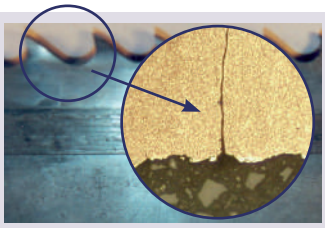
CREPE GENERATE DAL DORSO

Cause:
- Guide posteriori del dorso difettose (schiacciano il dorso).
- Il dorso della lama è in contatto con il bordo delle guide.
- Eccesso di tensione nel montare le lame sui volanti della macchina.

RECLAMO NON PERTINENTE







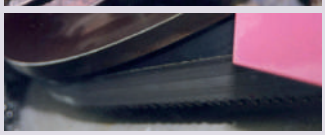
CREPE GENERATE DALLA GOLA DELLA DENTATURA

Cause:
- Passo della dentatura molto piccolo, che provoca accumulo di truciolo.
- Passo della dentatura molto grande, che provoca vibrazioni.
- Avanzamento eccessivo in relazione alla velocità della lama.

RECLAMO NON PERTINENTE







SBAVATURA SUL DORSO

Cause:
- Guide del dorso difettose.
- Il dorso della lama è in contatto con il bordo delle guide.

RECLAMO NON PERTINENTE

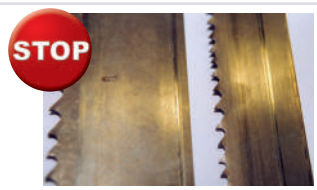


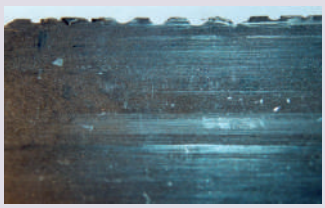


GRAFFIO PROFONDO SUI LATI DELLA LAMA

Cause:
- Guide laterali difettose.
- Guide laterali con regolazione eccessiva.
- Truciolo tra la lama e le guide.

RECLAMO NON PERTINENTE





DENTATURA ROTTA O SCHIACCIATA

Cause:
- Passo del dente molto grande: vibrazioni.
- Passo del dente molto piccolo: accumulo di truciolo.
- La velocità della lama non è adatta al tipo di materiale (troppo alta).
- Il materiale non è ben fissato e si muove durante il taglio.

RECLAMO NON PERTINENTE



FRATTURA NETTA PER LA SALDATURA

Cause:
- Difetto di fabbrica: saldatura mal realizzata

RECLAMO PERTINENTE



LAMA ROTTA, DENTATURA IN SENSO OPPOSTO

Cause:
- Guide laterali troppo strette.
- Bracci delle guide troppo lontani dal materiale da tagliare.
- Disallineamento tra i volanti e i gruppi di guide.

RECLAMO NON PERTINENTE



TAGLIO STORTO

Cause:
- Usura naturale della dentatura.
- La velocità e l'avanzamento della lama non sono coordinate con il tipo di materiale da tagliare.
- La stradatura della dentatura sfrega contro i lati delle guide.

RECLAMO NON PERTINENTE



IDENTIFICAZIONE DEI TIPI DI DISCHI ABRASIVI



AX **60** **S** **BF** **T41**

TIPO DI ABRASIVO

A: Ossido di Alluminio

AX: Ossido di Alluminio ad alta resistenza

AC: Ossido di Alluminio + Carburo di Silicio

C: Carburo di Silicio

Z: Zirconio

FORMA DEL DISCO

T41
Piatto per il taglio

T42
Centro ribassato per il taglio

T27
Centro ribassato per la lucidatura con lamelle.

GRANA

30-36: Medio

40-60: Fino

80-120: Extra fino

DUREZZA

Q: Morbido

R: Mezzo

S: Duro

TIPO DI DISCO (AGGLOMERANTE)

BF: Legame di resina rinforzato con fibre



90° Dischi da **Taglio**



15° Dischi per **Lucidatura e Sgrossatura**



Senza **Ferro, Zolfo e Cloruro**

A: Ossido di alluminio:
L'ossido di alluminio è forte e durevole, per il taglio e la sgrossatura di materiali ad alta resistenza come acciaio al carbonio, acciaio inossidabile e tutti i tipi di metalli.

AX: Ossido di alluminio ad alta resistenza:
L'ossido di alluminio ad alta resistenza è un abrasivo di altissima qualità, la sua microstruttura della grana gli consente di rompersi durante il taglio e la sgrossatura generando più nuovi taglienti. Viene normalmente utilizzato in lavori ad alta produzione e durezza. È consigliato per acciaio inossidabile, acciaio al carbonio, acciai forgiati.

AC: Ossido di Alluminio + Carburo di Silicio:

C: Carburo di silicio:
Il carburo di silicio è il minerale più duro e tagliente. È ideale per tagliare, levigare e lucidare tutti i tipi di materiali, metalli non ferrosi: alluminio, ottone, bronzo, magnesio, titanio,... gomma, vetro, plastica, legno fibroso, smalto... Il carburo di silicio supera qualsiasi altro abrasivo per la sua capacità di penetrare e tagliare, più velocemente e con meno sforzo.

Z: Zirconio:
Lo zirconio ha la qualità di autoaffilante che gli conferisce una lunga vita utile nei lavori ad alte prestazioni e durezza nell'asportazione di materiale. È ideale per la sgrossatura e lucidatura ad alte prestazioni su acciaio inossidabile, acciaio al carbonio e tutti i tipi di metalli.

COME DIFFERENZIARE I DISCHI ABRASIVI

I dischi abrasivi tagliano, lucidano o levigano con forza diversa grazie ai grani abrasivi che li compongono uniti tra loro, grazie al legante. A seconda di detto materiale e legante, mostrano variazioni di durezza, velocità e profondità di taglio o resistenza all'usura.

A causa di questi parametri, devono essere scelti i componenti con le caratteristiche appropriate per eseguire il taglio, la lucidatura o la sgrossatura a seconda dell'applicazione e del materiale da lavorare.

Sia dall'utensile da utilizzare (smerigliatrice, troncatrice, taglatrice o macchina fissa), dal materiale da tagliare (metallo, acciaio inossidabile, ferro, pietra), o dall'operazione da eseguire (taglio o sgrossatura), le caratteristiche di il disco abrasivo sarà diverso per prestazioni ottimali.



AB05:

Disco Abrasivo per Usi generali nel taglio di metallo. Diametri di 115 mm e 125 mm, Geometria del disco a Centro Piatto (T41), composto da Ossido di Alluminio. Astuccio in metallo da 10 unità per una conservazione ottimale.



AB11:

Disco Abrasivo ad Alte Prestazioni per il taglio di Acciaio inossidabile, acciaio e metallo. Diametri di 115 mm, 125 mm e 230 mm. Disponibile in 2 geometrie del disco, Centro Piatto per il taglio (T41) e Centro Ribassato per il taglio (T42). Elevata durezza, realizzato in Ossido di Alluminio ad alta resistenza legato da resina rinforzata con fibra. Garantito da Certificato OSA.



AB17:

STONE, Disco Abrasivo ad Alte Prestazioni per il taglio di Materiali Edili. Diametri di 115 mm, 125 mm e 230 mm. Geometria del disco a Centro Ribassato per il taglio (T42). Durezza media, realizzato in Carburo di Silicio legato con resina rinforzata con fibra. Garantito da Certificato OSA.



AB18:

MULTIFUNCTION, Disco Abrasivo ad Alte Prestazioni per il taglio di tutti i tipi di materiali. Diametri di 115 mm, 125 mm e 230 mm. Geometria del disco a centro piatto per il talgio (T41). Durezza morbida, realizzato in Ossido di Alluminio + Carburo di Silicio legato da resina rinforzata con fibra. Garantito da Certificato OSA.



AB15:

Disco Abrasivo Lamellare ad alte Prestazioni per la lucidatura di Acciaio inossidabile, acciaio e metallo. Diametri di 115 mm e 125 mm. Geometria del disco a Centro Ribassato con lame per la lucidatura (T27). Quattro qualità di grana disponibili. Realizzato in Zirconio accoppiato ad una lama di tessuto di fibra di vetro rinforzato per la massima produttività e sicurezza. Il disco frontale funziona con un'inclinazione massima di 15º.



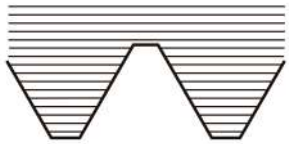
AB20:

Disco Abrasivo Lamellare ad Alte Prestazioni per la sgrossatura e la lucidatura di Acciaio inossidabile, acciaio e metallo. Diametri di 115 mm e 125 mm. Geometria del disco a Centro Ribassato con lame per la lucidatura (T27). Quattro qualità di grana disponibili. Realizzato in Ossido di Alluminio. Leggero, flessibile e silenzioso grazie al suo corpo in fibra multistrato. Il disco frontale funziona con un'inclinazione massima di 15º.

FILETTATURA PER LAMINAZIONE

La formazione delle filettature interne per laminazione è una delle tecnologie utilizzate nella fabbricazione di filettature.
Questa tecnica può essere utilizzata per la perforazione di materiali con una duttilità minima del 10%.

VANTAGGI	CONDIZIONI D'UTILIZZO
- Non si genera truciolo nel processo di perforazione - Migliore qualità superficiale nei fianchi - Filettatura uniforme e perfettamente calibrata - La filettatura ottenuta sopporta maggiori coppie di fissaggio - La vita utile dell'utensile è maggiore - Maggiore velocità - Maggiore produttività	- Precisione nel diametro del preforo - Lubrificazione abbondante - RPM sufficientemente elevate

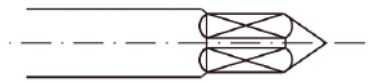
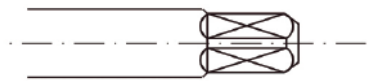
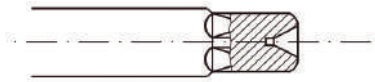


Filettatura ottenuta con Maschi da taglio



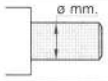
Filettatura ottenuta con Maschi per laminazione

GEOMETRIA DEI MASCHI A MACCHINA IN FUNZIONE DELLA NORMA

INTERVALLO		PUNTA	QUADRO
M3-M6	DIN 371	PUNTA COMPLETA	PUNTA ESTERNA COMPLETA
M3-M6	DIN 376		
M3-M6	DIN 374		
M3-M6	DIN 352		
M3-M6	DIN 2181		
M3-M6	DIN 357		
M3-M10	DIN 2174		
M8; M10	DIN 371	PUNTA RIDOTTA	CIANFRINO
M7; M12	DIN 376		
M7; M9	DIN 371	PUNTA CENTRANTE	PUNTA CENTRANTE
⩾ M14	DIN 376		
⩾ M7	DIN 374		
⩾ M7	DIN 352		
⩾ M7	DIN 2181		
⩾ M7	DIN 357		
⩾ M12	DIN 2174		

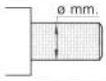
DIAMETRO PREVIO DELL'ASTA, PER FILETTATURA CON FILIERE

M



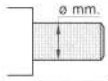
Ø d_1	p	ø mm.
M 1	0,25	0,97
M 1,1	0,25	1,07
M 1,2	0,25	1,17
M 1,4	0,3	1,36
M 1,6	0,35	1,54
M (1,7)	0,35	1,64
M 1,8	0,35	1,74
M 2	0,4	1,93
M 2,2	0,45	2,13
M (2,3)	0,4	2,23
M 2,5	0,45	2,43
M (2,6)	0,45	2,53
M 3	0,5	2,92
M 3,5	0,6	3,41
M 4	0,7	3,91
M 4,5	0,75	4,41
M 5	0,8	4,90
M 6	1	5,88
M 7	1	6,88
M 8	1,25	7,87
M 9	1,25	8,87
M 10	1,5	9,85
M 11	1,5	10,85
M 12	1,75	11,83
M 14	2	13,82
M 16	2	15,82
M 18	2,5	17,79
M 20	2,5	19,79
M 22	2,5	21,79
M 24	3	23,77
M 27	3	26,77
M 30	3,5	29,73
M 33	3,5	32,73
M 36	4	35,70
M 39	4	38,70
M 42	4,5	41,69
M 45	4,5	44,69
M 48	5	47,66
M 52	5	51,66
M 56	5,5	55,65
M 60	5,5	59,65
M 64	6	63,62
M 68	6	67,62
M 3 x	0,6	2,91
M 3,5 x	0,75	3,41
M 4 x	0,75	3,91
M 5 x	0,9	4,89

MF



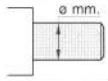
Ø d_1	x	p	ø mm.
M 3	x	0,35	2,94
M 3,5	x	0,35	3,44
M 4	x	0,35	3,94
M 4	x	0,5	3,93
M 5	x	0,5	4,93
M 6	x	0,5	5,93
M 6	x	0,75	5,90
M 7	x	0,75	6,90
M 8	x	0,5	7,93
M 8	x	0,75	7,90
M 8	x	1	7,88
M 9	x	1	8,88
M 10	x	0,5	9,93
M 10	x	0,75	9,90
M 10	x	1	9,88
M 10	x	1,25	9,86
M 11	x	1	10,88
M 12	x	0,75	11,90
M 12	x	1	11,88
M 12	x	1,25	11,86
M 12	x	1,5	11,85
M 13	x	1	12,88
M 13	x	1,5	12,85
M 14	x	1	13,88
M 14	x	1,25	13,86
M 14	x	1,5	13,85
M 15	x	1	14,88
M 15	x	1,5	14,85
M 16	x	1	15,88
M 16	x	1,5	15,85
M 18	x	1	17,88
M 18	x	1,5	17,85
M 18	x	2	17,82
M 20	x	1	19,88
M 20	x	1,5	19,85
M 20	x	2	19,82
M 22	x	1	21,88
M 22	x	1,5	21,85
M 22	x	2	21,82
M 24	x	1	23,88
M 24	x	1,5	23,85
M 24	x	2	23,82

MF



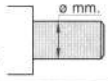
Ø d_1	x	p	ø mm.
M 25	x	1	24,88
M 25	x	1,5	24,85
M 26	x	1	25,88
M 26	x	1,5	25,85
M 27	x	1	26,88
M 27	x	1,5	26,85
M 27	x	2	26,82
M 28	x	1,5	27,85
M 28	x	2	27,82
M 30	x	1	29,88
M 30	x	1,5	29,85
M 30	x	2	29,82
M 32	x	1,5	31,85
M 33	x	1,5	32,85
M 33	x	2	32,82
M 34	x	1,5	33,85
M 35	x	1,5	34,85
M 36	x	1,5	35,85
M 36	x	2	35,82
M 36	x	3	35,76
M 38	x	1,5	37,85
M 39	x	1,5	38,85
M 39	x	2	38,82
M 39	x	3	38,76
M 40	x	1,5	39,85
M 40	x	2	39,82
M 40	x	3	39,76
M 42	x	1,5	41,85
M 42	x	2	41,82
M 42	x	3	41,76
M 45	x	1,5	44,85
M 45	x	2	44,82
M 45	x	3	44,76
M 48	x	1,5	47,85
M 48	x	2	47,82
M 48	x	3	47,76
M 50	x	1,5	49,85
M 50	x	2	49,82
M 50	x	3	49,76
M 52	x	1,5	51,85
M 52	x	2	51,82
M 52	x	3	51,76

W (BSW)



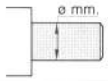
Ø d_1	p	ø mm.
W 3/32	48	2,26
W 1/8	40	3,12
W 5/32	32	3,82
W 3/16	24	4,69
W 7/32	24	5,39
W 1/4	20	6,16
W 5/16	18	7,76
W 3/8	16	9,30
W 7/16	14	10,89
W 1/2	12	12,43
W 9/16	12	13,92
W 5/8	11	15,62
W 3/4	10	18,76
W 7/8	9	21,89
W 1	8	25,08
W 1 1/8	7	28,21
W 1 1/4	7	31,35
W 1 3/8	6	34,48
W 1 1/2	6	37,67
W 1 3/4	5	43,94
W 2	4,5	50,26

BSF



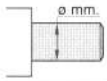
Ø d_1	p	ø mm.
BSF 3/16	32	4,67
BSF 1/4	26	6,25
BSF 5/16	22	7,82
BSF 3/8	20	9,39
BSF 7/16	18	10,97
BSF 1/2	16	12,54
BSF 9/16	16	14,12
BSF 5/8	14	15,71
BSF 3/4	12	18,85
BSF 7/8	11	22,02
BSF 1	10	25,17

UNC



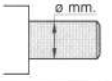
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No. 3 - 48 UNC	2,44
No. 4 - 40 UNC	2,76
No. 5 - 40 UNC	3,09
No. 6 - 32 UNC	3,41
No. 8 - 32 UNC	4,07
No. 10 - 24 UNC	4,71
No. 12 - 24 UNC	5,37
1/4 - 20 UNC	6,22
5/16 - 18 UNC	7,80
3/8 - 16 UNC	9,37
7/16 - 14 UNC	10,95
1/2 - 13 UNC	12,52
9/16 - 12 UNC	14,10
5/8 - 11 UNC	15,68
3/4 - 10 UNC	18,84
7/8 - 9 UNC	22
1 - 8 UNC	25,16
1 1/8 - 7 UNC	28,31
1 1/4 - 7 UNC	31,49
1 3/8 - 6 UNC	34,63
1 1/2 - 6 UNC	37,81
1 3/4 - 5 UNC	44,12
2 -4,5 UNC	50,45

UNF



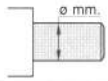
Ø d_1 - p	ø mm.
No. 0 - 80 UNF	1,47
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No. 2 - 64 UNF	2,12
No. 3 - 56 UNF	2,44
No. 4 - 48 UNF	2,77
No. 5 - 44 UNF	3,10
No. 6 - 40 UNF	3,42
No. 8 - 36 UNF	4,08
No. 10 - 32 UNF	4,73
No. 12 - 28 UNF	5,38
1/4 - 28 UNF	6,24
5/16 - 24 UNF	7,82
3/8 - 24 UNF	9,41
7/16 - 20 UNF	10,98
1/2 - 20 UNF	12,56
9/16 - 18 UNF	14,14
5/8 - 18 UNF	15,73
3/4 - 16 UNF	18,89
7/8 - 14 UNF	22,05
1 - 12 UNF	25,21
1 1/8 - 12 UNF	28,38
1 1/4 - 12 UNF	31,56
1 3/8 - 12 UNF	34,73
1 1/2 - 12 UNF	37,91

G (BSP)



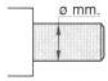
Ø d_1	p	ø mm.
G 1/16	28	7,61
G 1/8	28	9,62
G 1/4	19	13,03
G 3/8	19	16,53
G 1/2	14	20,81
G 5/8	14	22,77
G 3/4	14	26,30
G 7/8	14	30,06
G 1	11	33,07
G 1 1/8	11	37,71
G 1 1/4	11	41,73
G 1 3/8	11	44,14
G 1 1/2	11	47,62
G 1 3/4	11	53,56
G 2	11	59,43

NPSM



Ø d_1	p	ø mm.
1/8 NPSM	27	4,99
1/4 NPSM	18	13,24
3/8 NPSM	18	16,70
1/2 NPSM	14	20,77
3/4 NPSM	14	26,13
1 NPSM	11,5	32,68
1 1/4 NPSM	11,5	41,45
1 1/2 NPSM	11,5	47,52
2 NPSM	11,5	59,56

PG



Ø d_1	p	ø mm.
PG 7	20	12,40
PG 9	18	15,10
PG 11	18	18,50
PG 13,5	18	20,30
PG 16	18	22,40
PG 21	16	28,15
PG 29	16	36,85
PG 36	16	46,85
PG 42	16	53,85
PG 48	16	59,15

TABELLA PRATICA DI CONSULTAZIONE DELLE NORME SECONDO I FILETTI DI PASSO PER POLLICE

		FILETTATURA AMERICANA						FILETTATURA INGLESE					
FILETTO Ø	Ø mm	UNC (NC)	UNF (NF)	UNEF (NEF)	UN	UNS	NPS NPT API	BSW	BSF	BRASS	BS 6n	WHIT	BSP BSPT
1/16	1,588	--	--	--	--	--	27	60	--	--	--	--	--
3/32	2,381	--	--	--	--	--	--	48	--	--	--	--	--
1/8	3,175	--	--	--	--	--	27	40	--	--	--	--	28
5/32	3,969	--	--	--	--	--	--	32	--	--	--	--	--
3/16	4,763	--	--	--	--	--	--	24	32	--	--	--	--
7/32	5,556	--	--	--	--	--	--	24	28	--	--	--	--
No 0		--	80	--	--	--	--	--	--	--	--	--	--
No 1	1,854	64	72	--	--	--	--	--	--	--	--	--	--
No 2	2,184	56	64	--	--	--	--	--	--	--	--	--	--
No 3	2,515	48	56	--	--	--	--	--	--	--	--	--	--
No 4	2,845	40	48	--	--	--	--	--	--	--	--	--	--
No 5	3,175	40	44	--	--	--	--	--	--	--	--	--	--
No 6	3,505	32	40	--	--	--	--	--	--	--	--	--	--
No 8	4,166	32	36	--	--	--	--	--	--	--	--	--	--
No 10	4,826	24	32	--	--	28-36-40-48-56	--	--	--	--	--	--	--
No 12	5,486	24	28	32	--	36-40-48-56	--	--	--	--	--	--	--
1/4	6,350	20	28	32	--	24-27-36-40-48-56	18	20	26	26	--	32	19
9/32	7,14	--	--	--	--	--	--	20	26	--	--	--	--
5/16	7,938	18	24	32	20-28	27-36-40-48	--	18	22	26	--	32	--
3/8	9,525	16	24	32	20-28	18-27-36-40	18	16	20	26	--	32	19
7/16	11,11	14	20	28	16-32	18-24-27	--	14	18	26	--	--	--
1/2	12,7	13	20	28	16-32	12-14-18-24-27	14	12	16	26	18	20	14
9/16	14,29	12	18	24	16-20-28-32	14-27	--	12	16	26	--	20	--
5/8	15,87	11	18	24	12-16-20-28-32	14-27	--	11	14	26	18	20	14
11/16	17,46	--	--	24	12-16-20-28-32	--	--	11	14	26	--	16-20	--
3/4	19,05	10	16	20	12-28-32	14-18-24-27	14	10	12	26	16	16-20	14
13/16	20,64	--	--	20	12-16-28-32	--	--	10	12	--	--	16-20-26	--
7/8	22,22	9	14	20	12-16-28-32	10-18-24-27	--	9	11	26	--	20	14
15/16	23,81	--	--	20	12-16-28-32	--	--	--	--	--	--	12-20	--
1"	25,40	8	12	20	16-28-32	10-14-18-24-27	11/2	8	10	26	16	12-20	11
1" 1/16	26,98	--	--	18	8-12-16-20-28	--	--	--	--	--	--	12-20	--
1" 1/8	28,57	7	12	18	8-16-20-28	10-14-24	--	7	9	26	--	12-20	11
1" 3/16	30,16	--	--	18	8-12-16-20-28	--	--	--	--	--	--	12-20	--
1" 1/4	31,75	7	12	18	8-16-20-28	10-14-24	111/2	7	9	26	16	12-20	11
1" 5/16	33,34	--	--	18	8-12-16-20-28	--	--	--	--	--	--	12-20	--
1" 3/8	34,92	6	12	18	8-16-20-28	10-14-24	--	6	8	--	--	12-20	11
1" 7/16	36,51	--	--	18	6-8-12-16-20-28	--	--	--	--	--	--	12-20	--
1" 1/2	38,10	6	12	18	8-16-20-28	10-14-24	111/2	6	8	26	14	12-20	11
1" 9/16	39,69	--	--	18	6-8-12-16-20-28	--	--	--	--	--	--	--	--
1" 5/8	41,27	--	--	18	6-8-12-16-20	--	--	5	8	26	--	12-16-20	11
1" 11/16	42,86	--	--	18	6-8-12-16-20	--	--	--	--	--	--	--	--
1" 3/4	44,45	5	--	--	6-8-12-16-20	10-14-18	--	5	7	26	--	12-16-20	11
1" 13/16	46,04	--	--	--	6-8-12-16-20	--	--	--	--	--	--	--	--
1" 7/8	47,62	--	--	--	6-8-12-16-20	10-14-18	--	4 1/2	--	26	--	12-16-20	--
1" 15/16	49,21	--	--	--	6-8-12-16-20	--	--	--	--	--	--	--	--
2"	50,80	4 1/2	--	--	6-8-12-16-20	10-14-18	11 1/2	4 1/2	7	26	14	12-16-20	11

TRASFORMAZIONE DEL PASSO DEI FILETTI DA POLLICI A MILLIMETRI

N	mm	N	mm	N	mm	N	mm
80	0,317	28	0,907	13	1,953	4 1/2	5,644
72	0,352	27	0,940	12	2,116	4	6,349
64	0,396	26	0,976	11 1/2	2,208	3 1/2	7,257
60	0,423	24	1,058	11	2,309	3 1/4	7,815
56	0,453	22	1,154	10	2,540	3	8,466
48	0,529	20	1,270	9	2,822	2 7/8	8,834
44	0,577	19	1,336	8	3,174	2 3/4	9,236
40	0,635	18	1,411	7	3,628	2 5/8	9,676
36	0,705	16	1,587	6	4,233	2 1/2	10,160
32	0,793	14	1,814	5	5,080	---	---

CONDIZIONI GENERALI DI VENDITA

INTRODUZIONE

Le presenti condizioni generali di vendita saranno in vigore a partire dal 3 febbraio 2025 e sostituiranno e renderanno inefficaci tutte le condizioni generali precedentemente applicate. Resta inteso che tutte le vendite e le consegne effettuate da CELESA, S.A. a partire dal 3 febbraio 2025 saranno soggette alle presenti condizioni generali, a meno che non siano state espressamente concordate per iscritto dalle parti contraenti, nel qual caso prevarranno questi particolari accordi. Qualsiasi documento diverso dalle presenti condizioni generali di vendita, in particolare brochure, pubblicità, avvisi, ha solo valore informativo e orientativo, ma non ha alcun valore contrattuale.

CONDIZIONI DI PAGAMENTO

- La forma di pagamento sarà concordata individualmente con ciascun cliente, previa autorizzazione del Dipartimento Amministrativo-Finanziario di CELESA, S.A., e sarà conforme ai limiti stabiliti dalla Legge 15/2010 del 5 luglio 2010.
- Il mancato rispetto delle condizioni di pagamento concordate comporterà l'immediata interruzione della fornitura.

SCADENZE FISSE

In caso di date fisse di pagamento che superino i periodi precedentemente stabiliti, ci rivolgeremo alla data fissata immediatamente prima, a seconda dei casi, non potendo in ogni caso superare i limiti stabiliti dalla Legge 15/2010 del 5 luglio 2010.

ASSICURAZIONE

La merce viaggerà sempre ad esclusivo rischio e a spese dell'acquirente, che sarà sempre responsabile del premio assicurativo, nei casi in cui il cliente desideri assicurare la merce.

RECLAMI

Il cliente è tenuto ad esaminare i prodotti serviti al momento del ricevimento, al fine di verificarne la conformità con l'ordine in termini di riferimento o riferimenti serviti, e il numero di unità consegnate. In caso di discrepanze dovute a differenze osservate nella ricezione del materiale, tutti i reclami saranno esaminati e valutati entro 8 giorni dal ricevimento. Non saranno accettate restituzioni senza la dovuta notifica a CELESA, S.A. entro il termine stabilito.

RITORNA

Qualsiasi restituzione del prodotto deve essere parte di un accordo formale e preventivo tra CELESA, S.A. e l'acquirente. I resi saranno accettati solo in caso di difetto o errore di fabbricazione direttamente imputabile a CELESA, S.A. e previa autorizzazione del reparto qualità di CELESA, S.A. I resi saranno effettuati in porto franco, dovranno essere accompagnati dalla fattura originale e dalla bolla di consegna e dovranno sempre essere inviati con il nostro abituale mezzo di trasporto.

Qualsiasi restituzione di materiale deve essere comunicata immediatamente a CELESA, S.A. direttamente o tramite il rappresentante, con il cliente che si fa carico delle spese di trasporto. Una volta ricevuto lo strumento restituito, il nostro Ufficio Qualità effettuerà i relativi controlli e ispezioni, rilasciando il relativo rapporto. Nel caso in cui l'utensile non presenti alcun difetto attribuibile alla sua qualità e non vi siano errori attribuibili a CELESA, S.A., verrà detratto il 15% del valore di acquisto per la gestione e il controllo di qualità.

GARANZIE

CELESA, S.A., garantisce tutti gli utensili che compongono il suo programma di vendita contro qualsiasi difetto di fabbricazione e di materiale e non sarà in alcun caso responsabile del loro uso improprio. In ogni caso, la responsabilità di CELESA, S.A. si limiterà solo ed esclusivamente alla riparazione o alla sostituzione dell'utensile difettoso, con il limite massimo del valore dell'utensile fornito, senza impegnare alcun pagamento o penalità per qualsiasi altro motivo.

CELESA, S.A., si riserva il diritto di modificare, senza preavviso, le dimensioni, le qualità dell'acciaio e in generale qualsiasi caratteristica tecnica dei suoi prodotti, ogni qualvolta l'Ufficio Tecnico ritenga che tale variazione comporti un miglioramento tecnico del prodotto.

CELESA, S.A. non sostituirà alcun utensile senza un rapporto tecnico favorevole del nostro reparto qualità e rispettando sempre le condizioni di funzionamento indicate nella sezione Restituzioni.

CELESA, S.A. non ammetterà reclami o penalità di alcun tipo in caso di ritardo nella consegna di un ordine.

TRASPORTO

CELESA, S.A. si riserva il diritto di utilizzare il mezzo di trasporto più adatto in base agli accordi che potrà avere con le caratteristiche, la destinazione, il peso e il volume della spedizione.

QUANTITÀ MINIMA D'ORDINE

Viene stabilito un ordine minimo di 60 € netti.

TASSO CORRENTE

CELESA, S.A. applicherà le condizioni e i prezzi previsti dalla tariffa in vigore in qualsiasi momento e non sarà responsabile di eventuali interpretazioni non conformi al suo contenuto.

CONDIZIONALITÀ

L'accettazione della merce fornita da CELESA, S.A., senza rifiuto immediato da parte dell'acquirente, implica l'approvazione delle presenti condizioni generali di vendita, e la loro modifica sarà valida solo se il contratto di CELESA, S.A. sarà registrato per iscritto.

I.V.A.

I prezzi non sono soggetti all'imposta sul valore aggiunto.

RISERVA DI PROPRIETÀ

Le nostre vendite sono sempre considerate alla condizione di Riserva di Proprietà, ai sensi dell'articolo 1.506 del C.C., fino al completo pagamento di tutti gli onorari dovuti.

GIURISDIZIONE COMPETENTE

Per qualsiasi disaccordo sull'interpretazione di queste condizioni, o per qualsiasi controversia dovuta all'inadempienza di una delle parti, entrambe le parti si sottopongono alla giurisdizione dei Tribunali di Bilbao, rinunciando a qualsiasi altra giurisdizione che possa corrispondere ad esse, anche nel caso in cui il contrario sia stipulato in lettere o comunicazioni del cliente, così come nel caso di un ricorso contro la garanzia.

IDENTIFICAZIONE

DEGLI SCONTI PER COLORI SECONDO IL FONDO IN CUI I PREZZI SONO SITUATI

SFONDO GRIGIO	Punte ad alto consumo
SFONDO ROSA	Resto di specialità
SFONDO VERDE	Serie di maschi e filiere
SFONDO GIALLO	Lame a nastro

CATALOGO 2025



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