



MILLUTENSIL

STANDARD
PARTS



ARTICOLI RETTIFICATI DI PRECISIONE
IN METALLO DURO



MILLUTENSIL
INNOVATION

PRECISIONE SPECIALE: ARTICOLI RETTIFICATI DI PRECISIONE IN METALLO DURO

Dal 1955, Millutensil è sinonimo di eccellenza e affidabilità per gli stampisti, offrendo soluzioni innovative e prodotti di alta qualità per rispondere alle esigenze di un mercato sempre più esigente. La nostra missione di supportare i professionisti nella creazione e manutenzione di stampi trova un alleato perfetto nella partnership con ZECHA Hartmetall-Werkzeugfabrikation GmbH, pionieri nella produzione di utensili rettificati di precisione in metallo duro dal 1964.

Grazie a questa collaborazione esclusiva, Millutensil distribuisce in Italia l'intera gamma di articoli di precisione ZECHA, combinando oltre 60 anni di esperienza ZECHA nel settore della micro asportazione truciolo, punzonatura e formatura con la storica competenza Millutensil nel fornire soluzioni avanzate per gli stampisti.

TECNOLOGIA ALL'AVANGUARDIA E SOLUZIONI SU MISURA

ZECHA si distingue per un moderno parco macchine CNC, tecnologie di misurazione e collaudo di altissima precisione e una stretta collaborazione con i clienti per sviluppare soluzioni personalizzate. Due terzi della loro produzione sono rappresentati da soluzioni speciali, progettate per soddisfare le specifiche esigenze tecniche ed economiche di ogni cliente.

AMPIO PROGRAMMA E NOVITÀ PER IL MERCATO ITALIANO.

Tra i prodotti disponibili vi è una vasta gamma di punzoni secondo DIN 9861 e ISO 8020, matrici e bussole di guida, tutti personalizzabili anche con dimensioni speciali su richiesta e con tempi di consegna rapidi. Millutensil è orgogliosa di mettere a disposizione degli stampisti italiani i prodotti ZECHA, unendo qualità, precisione e innovazione per offrire strumenti all'altezza dei più alti standard di produzione.

TIPOLOGIE DI METALLO DURO PER LA FABBRICAZIONE DI ELEMENTI DI TAGLIO E PUNZONATURA

COMPOSIZIONE E PROPRIETÀ

Tipologia	Codice	Codice ISO	Codice USA	Legante	Durezza			Resistenza alla flessione		Resistenza
				[m %]	HV10	HV30	HRA	[MPa]	[P.S.I.]	(SEVNB) [MPa*m 1/2]

TIPOLOGIE RESISTENTI ALLA CORROSIONE

CF-S12D	CF-S12D	K05/K10	C3/C9/C12	6,0	1880		93,4	3600		9,3
CF-H25S+	CF-H25S+	K20-K30		8,5	1680		92,1	3600		10,3
CF-H40S+	CF-H40S+	K40	C11/C12	11,8	1400		90,3	3200	464.000	12,5
CF-F35Z	CF-F35Z			17,5	1200		88,2	3300		15,6

TIPOLOGIE A GRANA FINE

TSM 33 / MG 18	CTS20D	K20-K40	C2	10,0	1620	1600	91,9	4000		10,4
MG 30	CTS30D	>K40		15,0	1435	1415	90,5	4300		13,2

TIPOLOGIE A GRANA FINE E MEDIA

H 20 S	CTF12D	K10/K20	C10/C12	6,0	1760		92,7	3200		9,9
H 40 S	CTF24D	K40	K40	12,0	1360		90,0	3000		12,0
H 50 S	CTF30D	K40	C11/C13	15,0	1250		88,8	3100		13,1

TIPOLOGIE A GRANA SPESSA

B 40 S	CTC25A	K40	C11/C14	12,0	1080		87,1	3100		16,3
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Osservazioni:

1. I dati in questa tabella si riferiscono a caratteristiche tipiche del materiale. Ci riserviamo il diritto di apportare modifiche ai dati nel caso di sviluppi tecnici o per motivi operativi.

2. KIC*: I fattori di intensità di sollecitazione critica misurati (KIC) dipendono fortemente dalla geometria del campione e dalla preparazione del campione. Non è quindi accettato un confronto diretto con valori determinati con un metodo diverso.

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MILL110

VHM - PUNZONE IN METALLO DURO

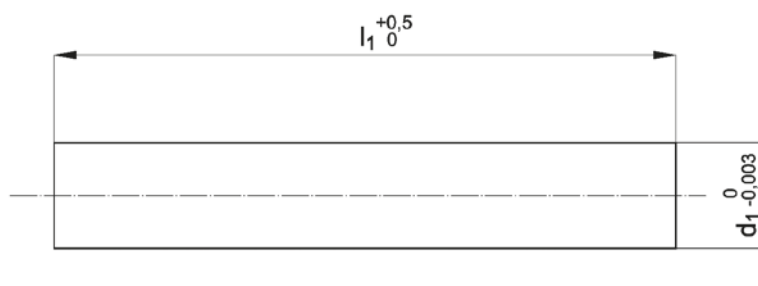


Materiale: CF-H40S+	Stock o consegna breve		COME ORDINARE MILL110.* d1 (MILL110.0100)
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CARATTERISTICHE DEL PRODOTTO

- Dimensioni di costruzione secondo DIN 9861B

Diverse lunghezze complessive, tolleranze e diversi gradi di durezza del metallo disponibili su richiesta.



NUMERO D'ORDINE	d1	l1
MILL110.0100	1,0	71,0
MILL110.0110	1,1	71,0
MILL110.0120	1,2	71,0
MILL110.0130	1,3	71,0
MILL110.0140	1,4	71,0
MILL110.0150	1,5	71,0
MILL110.0160	1,6	71,0
MILL110.0170	1,7	71,0
MILL110.0180	1,8	71,0
MILL110.0190	1,9	71,0
MILL110.0200	2,0	71,0
MILL110.0210	2,1	71,0
MILL110.0220	2,2	71,0
MILL110.0230	2,3	71,0
MILL110.0240	2,4	71,0
MILL110.0250	2,5	71,0
MILL110.0260	2,6	71,0
MILL110.0270	2,7	71,0
MILL110.0280	2,8	71,0
MILL110.0290	2,9	71,0
MILL110.0300	3,0	71,0
MILL110.0310	3,1	71,0
MILL110.0320	3,2	71,0
MILL110.0330	3,3	71,0
MILL110.0340	3,4	71,0
MILL110.0350	3,5	71,0
MILL110.0360	3,6	71,0
MILL110.0370	3,7	71,0
MILL110.0380	3,8	71,0
MILL110.0390	3,9	71,0
MILL110.0400	4,0	71,0
MILL110.0410	4,1	71,0
MILL110.0420	4,2	71,0
MILL110.0430	4,3	71,0
MILL110.0440	4,4	71,0
MILL110.0450	4,5	71,0
MILL110.0460	4,6	71,0
MILL110.0470	4,7	71,0
MILL110.0480	4,8	71,0
MILL110.0490	4,9	71,0
MILL110.0500	5,0	71,0
MILL110.0550	5,5	71,0
MILL110.0600	6,0	71,0
MILL110.0650	6,5	71,0
MILL110.0700	7,0	71,0
MILL110.0750	7,5	71,0
MILL110.0800	8,0	71,0
MILL110.0900	9,0	71,0
MILL110.1000	10,0	71,0
MILL110.1100	11,0	71,0
MILL110.1200	12,0	71,0

MILL115

PUNZONE IN METALLO DURO CON GAMBO RIBASSATO

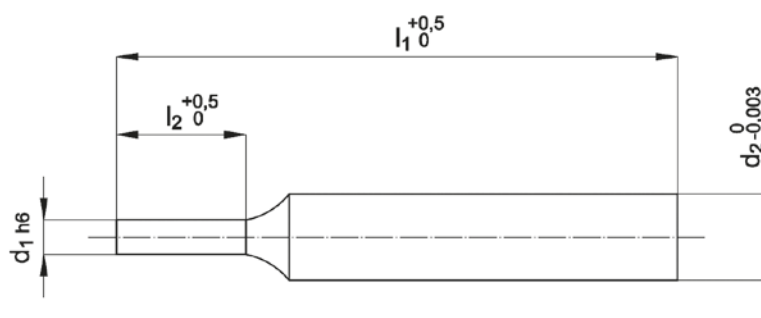


Materiale: CF-H40S+	Stock o consegna breve		COME ORDINARE MILL115.* d2 *d1 (MILL115.015.0050-140)
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CARATTERISTICHE DEL PRODOTTO

- Dimensioni di costruzione secondo DIN 9861A

Diverse lunghezze complessive, tolleranze e diversi gradi di durezza del metallo disponibili su richiesta.



MILLUTENSIL

NUMERO D'ORDINE	d1	d2	l1	l2
MILL115.015.0050 - 0140	0,5 - 1,4	1,5	71,0	7,0
MILL115.020.0050 - 0100	0,5 - 1,0	2,0	71,0	7,0
MILL115.020.0100 - 0190	1,0 - 1,9	2,0	71,0	7,0
MILL115.025.0100 - 0240	1,0 - 2,4	2,5	71,0	7,0
MILL115.030.0100 - 0150	1,0 - 1,5	3,0	71,0	7,0
MILL115.030.0160 - 0290	1,6 - 2,9	3,0	71,0	7,0
MILL115.035.0200 - 0340	2,0 - 3,4	3,5	71,0	7,0
MILL115.040.0250 - 0390	2,5 - 3,9	4,0	71,0	10,0
MILL115.045.0300 - 0440	3,0 - 4,4	4,5	71,0	10,0
MILL115.050.0350 - 0490	3,5 - 4,9	5,0	71,0	10,0
MILL115.060.0450 - 0590	4,5 - 5,9	6,0	71,0	10,0
MILL115.070.0550 - 0690	5,5 - 6,9	7,0	71,0	10,0
MILL115.080.0650 - 0790	6,5 - 7,9	8,0	71,0	10,0
MILL115.100.0750 - 0990	7,5 - 9,9	10,0	71,0	10,0

MILL120

PUNZONE IN METALLO DURO CON TESTA SVASATA

IN CF-H40S+ SALDO BRASATO

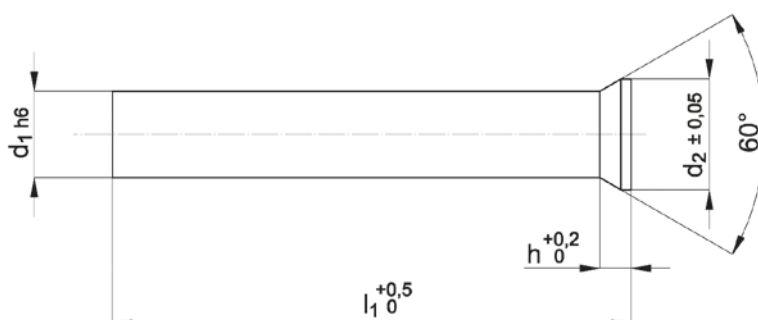


Materiale: CF-H40S+	Stock o consegna breve		COME ORDINARE MILL120.* d1 (MILL120.0100)
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CARATTERISTICHE DEL PRODOTTO

- Dimensioni di costruzione secondo DIN 9861 forma D

Diverse lunghezze complessive, tolleranze e diversi gradi di durezza del metallo disponibili su richiesta.



NUMERO D'ORDINE	d1	d2	l1	l2
MILL120.0100	1,0	1,8	71,0	1,19
MILL120.0110	1,1	1,8	71,0	1,11
MILL120.0120	1,2	2,0	71,0	1,19
MILL120.0130	1,3	2,0	71,0	1,11
MILL120.0140	1,4	2,2	71,0	1,19
MILL120.0150	1,5	2,2	71,0	1,11
MILL120.0160	1,6	2,5	71,0	1,28
MILL120.0170	1,7	2,5	71,0	1,19
MILL120.0180	1,8	2,8	71,0	1,37
MILL120.0190	1,9	2,8	71,0	1,28
MILL120.0200	2,0	3,0	71,0	1,37
MILL120.0210	2,1	3,2	71,0	1,45
MILL120.0220	2,2	3,2	71,0	1,37
MILL120.0230	2,3	3,5	71,0	1,54
MILL120.0240	2,4	3,5	71,0	1,45
MILL120.0250	2,5	3,5	71,0	1,37
MILL120.0260	2,6	4,0	71,0	1,71
MILL120.0270	2,7	4,0	71,0	1,63
MILL120.0280	2,8	4,0	71,0	1,54
MILL120.0290	2,9	4,0	71,0	1,45
MILL120.0300	3,0	4,5	71,0	1,80
MILL120.0310	3,1	4,5	71,0	1,71
MILL120.0320	3,2	4,5	71,0	1,63
MILL120.0330	3,3	4,5	71,0	1,54
MILL120.0340	3,4	4,5	71,0	1,45
MILL120.0350	3,5	5,0	71,0	1,80

NUMERO D'ORDINE	d1	d2	l1	l2
120.0360	3,6	5,0	71,0	1,71
120.0370	3,7	5,0	71,0	1,63
120.0380	3,8	5,0	71,0	1,54
120.0390	3,9	5,0	71,0	1,45
120.0400	4,0	5,5	71,0	1,80
120.0410	4,1	5,5	71,0	1,71
120.0420	4,2	5,5	71,0	1,63
120.0430	4,3	5,5	71,0	1,54
120.0440	4,4	5,5	71,0	1,45
120.0450	4,5	6,0	71,0	1,80
120.0460	4,6	6,0	71,0	1,71
120.0470	4,7	6,0	71,0	1,63
120.0480	4,8	6,0	71,0	1,54
120.0490	4,9	6,0	71,0	1,45
120.0500	5,0	6,5	71,0	1,80
120.0550	5,5	7,0	71,0	1,80
120.0600	6,0	8,0	71,0	2,23
120.0650	6,5	9,0	71,0	3,17
120.0700	7,0	9,0	71,0	2,73
120.0750	7,5	10,0	71,0	3,17
120.0800	8,0	10,0	71,0	2,73
120.0900	9,0	11,0	71,0	2,73
120.1000	10,0	12,0	71,0	2,73
120.1100	11,0	13,0	71,0	2,73
120.1200	12,0	14,0	71,0	2,73

MILL125

IN METALLO DURO CON GAMBO RIBASSATO

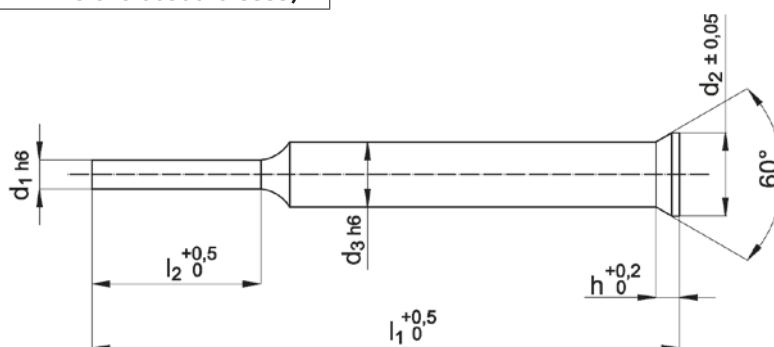
E TESTA SVASATA IN CF-H40S+ SALDO BRASATO



Materiale: CF-H40S+	DISPONIBILE IN 1 SETTIMANA		COME ORDINARE MILL125.* d3 *d1 (MILL125.020.00500-019999)
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CARATTERISTICHE DEL PRODOTTO

- Dimensioni di costruzione secondo DIN 9861 FORMA C



MILLUTENSIL

NUMERO D'ORDINE	Variabile			Fissa		
	d1	l1	l2	d3	d2	h
MILL125.020.00500 - 01999	0,5 - 1,999	41,0 - 71,0	1,0 - 11,0	2,0	3,0	1,37
MILL125.021.00500 - 02099	0,5 - 2,099	41,0 - 71,0	1,0 - 11,0	2,1	3,2	1,45
MILL125.022.00500 - 02199	0,5 - 2,199	41,0 - 71,0	1,0 - 11,0	2,2	3,2	1,37
MILL125.023.00500 - 02299	0,5 - 2,299	41,0 - 71,0	1,0 - 11,0	2,3	3,5	1,54
MILL125.024.00500 - 02399	0,5 - 2,399	41,0 - 71,0	1,0 - 11,0	2,4	3,5	1,45
MILL125.025.00800 - 02499	0,8 - 2,499	41,0 - 71,0	1,0 - 11,0	2,5	3,5	1,37
MILL125.026.00800 - 02599	0,8 - 2,599	41,0 - 71,0	1,0 - 11,0	2,6	4,0	1,71
MILL125.027.00800 - 02699	0,8 - 2,699	41,0 - 71,0	1,0 - 11,0	2,7	4,0	1,63
MILL125.028.00800 - 02799	0,8 - 2,799	41,0 - 71,0	1,0 - 11,0	2,8	4,0	1,54
MILL125.029.00800 - 02899	0,8 - 2,899	41,0 - 71,0	1,0 - 11,0	2,9	4,0	1,45
MILL125.030.00800 - 02999	0,8 - 2,999	45,0 - 71,0	1,0 - 15,0	3,0	4,5	1,80
MILL125.031.00800 - 03099	0,8 - 3,099	45,0 - 71,0	1,0 - 15,0	3,1	4,5	1,71
MILL125.032.00800 - 03199	0,8 - 3,199	45,0 - 71,0	1,0 - 15,0	3,2	4,5	1,63
MILL125.033.00800 - 03299	0,8 - 3,299	45,0 - 71,0	1,0 - 15,0	3,3	4,5	1,54
MILL125.034.00800 - 03399	0,8 - 3,399	45,0 - 71,0	1,0 - 15,0	3,4	4,5	1,45
MILL125.035.01000 - 03499	1,0 - 3,499	45,0 - 71,0	1,0 - 15,0	3,5	5,0	1,80
MILL125.036.01000 - 03599	1,0 - 3,599	45,0 - 71,0	1,0 - 15,0	3,6	5,0	1,71
MILL125.037.01000 - 03699	1,0 - 3,699	45,0 - 71,0	1,0 - 15,0	3,7	5,0	1,63
MILL125.038.01000 - 03799	1,0 - 3,799	45,0 - 71,0	1,0 - 15,0	3,8	5,0	1,54
MILL125.039.01000 - 03899	1,0 - 3,899	45,0 - 71,0	1,0 - 15,0	3,9	5,0	1,45
MILL125.040.01000 - 03999	1,0 - 3,999	48,0 - 71,0	1,0 - 18,0	4,0	5,5	1,80
MILL125.041.01000 - 04099	1,0 - 4,099	48,0 - 71,0	1,0 - 18,0	4,1	5,5	1,71
MILL125.042.01000 - 04199	1,0 - 4,199	48,0 - 71,0	1,0 - 18,0	4,2	5,5	1,63
MILL125.043.01000 - 04299	1,0 - 4,299	48,0 - 71,0	1,0 - 18,0	4,3	5,5	1,54
MILL125.044.01000 - 04399	1,0 - 4,399	48,0 - 71,0	1,0 - 18,0	4,4	5,5	1,45
MILL125.045.01000 - 04499	1,0 - 4,499	48,0 - 71,0	1,0 - 18,0	4,5	6,0	1,80
MILL125.046.01000 - 04599	1,0 - 4,599	48,0 - 71,0	1,0 - 18,0	4,6	6,0	1,71
MILL125.047.01000 - 04699	1,0 - 4,699	48,0 - 71,0	1,0 - 18,0	4,7	6,0	1,63
MILL125.048.01000 - 04799	1,0 - 4,799	48,0 - 71,0	1,0 - 18,0	4,8	6,0	1,54
MILL125.049.01000 - 04899	1,0 - 4,899	48,0 - 71,0	1,0 - 18,0	4,9	6,0	1,45
MILL125.050.01500 - 04999	1,5 - 4,999	51,0 - 71,0	1,0 - 21,0	5,0	6,5	1,80
MILL125.055.01500 - 05499	1,5 - 5,499	51,0 - 71,0	1,0 - 21,0	5,5	7,0	1,80
MILL125.060.01500 - 05999	1,5 - 5,999	52,0 - 71,0	1,0 - 22,0	6,0	8,0	2,23
MILL125.065.01500 - 06499	1,5 - 6,499	52,0 - 71,0	1,0 - 22,0	6,5	9,0	3,17
MILL125.070.02000 - 06999	2,0 - 6,999	55,0 - 71,0	1,0 - 25,0	7,0	9,0	2,73
MILL125.075.02000 - 07499	2,0 - 7,499	55,0 - 71,0	1,0 - 25,0	7,5	11	3,17
MILL125.080.02500 - 07999	2,5 - 7,999	55,0 - 71,0	1,0 - 25,0	8,0	11	2,73
MILL125.090.02500 - 08999	2,5 - 8,999	55,0 - 71,0	1,0 - 25,0	9,0	11,0	2,73
MILL125.100.04000 - 09999	4,0 - 9,999	55,0 - 71,0	1,0 - 25,0	11	12,0	2,73
MILL125.110.04000 - 010999	4,0 - 10,999	61,0 - 71,0	1,0 - 31,0	11,0	13,0	2,73
MILL125.120.04000 - 011999	4,0 - 11,999	61,0 - 71,0	1,0 - 31,0	12,0	14,0	2,73

MILL130

PUNZONE IN METALLO DURO CON TESTA CILINDRICA

IN CF-H40S+ SALDO BRASATO

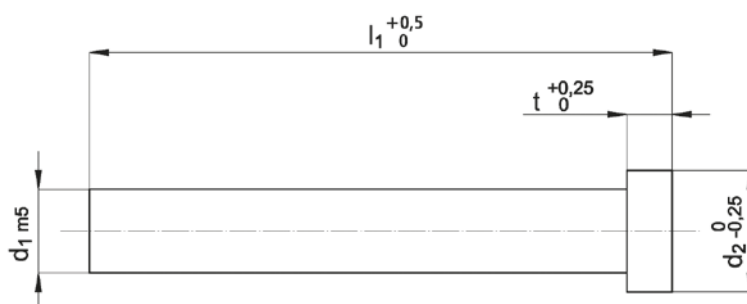


Materiale: CF-H40S+	Stock o consegna breve		COME ORDINARE MILL130.* d1 (MILL130.0100)
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CARATTERISTICHE DEL PRODOTTO

- Dimensioni di costruzione secondo DIN 8020 forma A

Lunghezze complessive diverse, altre tolleranze (es. h6) e diversi gradi di durezza del metallo disponibili su richiesta



NUMERO D'ORDINE	d1	d2	l1	t
MILL130.0100	1,0	2,0	71,0	5,0
MILL130.0110	1,1	2,2	71,0	5,0
MILL130.0120	1,2	2,2	71,0	5,0
MILL130.0130	1,3	2,5	71,0	5,0
MILL130.0140	1,4	2,5	71,0	5,0
MILL130.0150	1,5	3,0	71,0	5,0
MILL130.0160	1,6	3,0	71,0	5,0
MILL130.0170	1,7	3,0	71,0	5,0
MILL130.0180	1,8	3,2	71,0	5,0
MILL130.0190	1,9	3,2	71,0	5,0
MILL130.0200	2,0	3,5	71,0	5,0
MILL130.0210	2,1	3,7	71,0	5,0
MILL130.0220	2,2	3,7	71,0	5,0
MILL130.0230	2,3	4,0	71,0	5,0
MILL130.0240	2,4	4,0	71,0	5,0
MILL130.0250	2,5	4,0	71,0	5,0
MILL130.0260	2,6	4,5	71,0	5,0
MILL130.0270	2,7	4,5	71,0	5,0
MILL130.0280	2,8	4,5	71,0	5,0
MILL130.0290	2,9	4,5	71,0	5,0
MILL130.0300	3,0	5,0	71,0	5,0
MILL130.0310	3,1	5,0	71,0	5,0
MILL130.0320	3,2	5,0	71,0	5,0
MILL130.0330	3,3	5,0	71,0	5,0
MILL130.0340	3,4	5,0	71,0	5,0
MILL130.0350	3,5	5,5	71,0	5,0
MILL130.0360	3,6	5,5	71,0	5,0
MILL130.0370	3,7	5,5	71,0	5,0
MILL130.0380	3,8	5,5	71,0	5,0
MILL130.0390	3,9	5,5	71,0	5,0
MILL130.0400	4,0	6,0	71,0	5,0
MILL130.0410	4,1	6,0	71,0	5,0
MILL130.0420	4,2	6,0	71,0	5,0
MILL130.0430	4,3	6,0	71,0	5,0
MILL130.0440	4,4	6,0	71,0	5,0
MILL130.0450	4,5	7,0	71,0	5,0
MILL130.0460	4,6	7,0	71,0	5,0
MILL130.0470	4,7	7,0	71,0	5,0
MILL130.0480	4,8	7,0	71,0	5,0
MILL130.0490	4,9	7,0	71,0	5,0
MILL130.0500	5,0	8,0	71,0	5,0
MILL130.0550	5,5	8,5	71,0	5,0
MILL130.0600	6,0	9,0	71,0	5,0
MILL130.0650	6,5	9,5	71,0	5,0
MILL130.0700	7,0	10,0	71,0	5,0
MILL130.0750	7,5	10,5	71,0	5,0
MILL130.0800	8,0	11,0	71,0	5,0
MILL130.0900	9,0	12,0	71,0	5,0
MILL130.1000	10,0	13,0	71,0	5,0
MILL130.1100	11,0	14,0	71,0	5,0
MILL130.1200	12,0	15,0	71,0	5,0

MILL135

PUNZONE IN METALLO DURO CON TESTA CILINDRICA

IN CF-H40S+ SALDO BRASATO

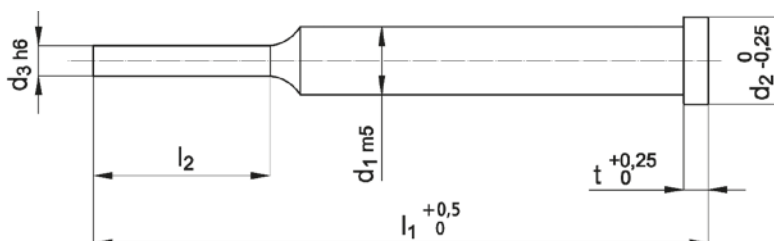


Materiale: CF-H40S+	DISPONIBILE IN 1 SETTIMANA		COME ORDINARE MILL135.* d3 *d1 (MILL135.020.00500-01999)
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CARATTERISTICHE DEL PRODOTTO

- Dimensioni di costruzione secondo DIN 8020 FORMA B

Lunghezze complessive diverse, altre tolleranze (es. h6) e diversi gradi di durezza del metallo disponibili su richiesta.



MILLUTENSIL

NUMERO D'ORDINE	Variabile			Fissa		
	d1	l1	l2	d3	d2	t
MILL135.020.00500 - 01999	0,5 - 1,999	40,0 - 71,0	1,0 - 11,0	2,0	3,5	5,0
MILL135.021.00500 - 02099	0,5 - 2,099	40,0 - 71,0	1,0 - 11,0	2,1	3,7	5,0
MILL135.022.00500 - 02199	0,5 - 2,199	40,0 - 71,0	1,0 - 11,0	2,2	3,7	5,0
MILL135.023.00500 - 02299	0,5 - 2,299	40,0 - 71,0	1,0 - 11,0	2,3	4,0	5,0
MILL135.024.00500 - 02399	0,5 - 2,399	40,0 - 71,0	1,0 - 11,0	2,4	4,0	5,0
MILL135.025.00800 - 02499	0,8 - 2,499	40,0 - 71,0	1,0 - 11,0	2,5	4,0	5,0
MILL135.026.00800 - 02599	0,8 - 2,599	40,0 - 71,0	1,0 - 11,0	2,6	4,5	5,0
MILL135.027.00800 - 02699	0,8 - 2,699	40,0 - 71,0	1,0 - 11,0	2,7	4,5	5,0
MILL135.028.00800 - 02799	0,8 - 2,799	40,0 - 71,0	1,0 - 11,0	2,8	4,5	5,0
MILL135.029.00800 - 02899	0,8 - 2,899	40,0 - 71,0	1,0 - 11,0	2,9	4,5	5,0
MILL135.030.00800 - 02999	0,8 - 2,999	45,0 - 71,0	1,0 - 15,0	3,0	5,0	5,0
MILL135.031.00800 - 03099	0,8 - 3,099	45,0 - 71,0	1,0 - 15,0	3,1	5,0	5,0
MILL135.032.00800 - 03199	0,8 - 3,199	45,0 - 71,0	1,0 - 15,0	3,2	5,0	5,0
MILL135.033.00800 - 03299	0,8 - 3,299	45,0 - 71,0	1,0 - 15,0	3,3	5,0	5,0
MILL135.034.00800 - 03399	0,8 - 3,399	45,0 - 71,0	1,0 - 15,0	3,4	5,0	5,0
MILL135.035.01000 - 03499	1,0 - 3,499	45,0 - 71,0	1,0 - 15,0	3,5	5,5	5,0
MILL135.036.01000 - 03599	1,0 - 3,599	45,0 - 71,0	1,0 - 15,0	3,6	5,5	5,0
MILL135.037.01000 - 03699	1,0 - 3,699	45,0 - 71,0	1,0 - 15,0	3,7	5,5	5,0
MILL135.038.01000 - 03799	1,0 - 3,799	45,0 - 71,0	1,0 - 15,0	3,8	5,5	5,0
MILL135.039.01000 - 03899	1,0 - 3,899	45,0 - 71,0	1,0 - 15,0	3,9	5,5	5,0
MILL135.040.01000 - 03999	1,0 - 3,999	48,0 - 71,0	1,0 - 18,0	4,0	6,0	5,0
MILL135.041.01000 - 04099	1,0 - 4,099	48,0 - 71,0	1,0 - 18,0	4,1	6,0	5,0
MILL135.042.01000 - 04199	1,0 - 4,199	48,0 - 71,0	1,0 - 18,0	4,2	6,0	5,0
MILL135.043.01000 - 04299	1,0 - 4,299	48,0 - 71,0	1,0 - 18,0	4,3	6,0	5,0
MILL135.044.01000 - 04399	1,0 - 4,399	48,0 - 71,0	1,0 - 18,0	4,4	6,0	5,0
MILL135.045.01000 - 04499	1,0 - 4,499	48,0 - 71,0	1,0 - 18,0	4,5	7,0	5,0
MILL135.046.01000 - 04599	1,0 - 4,599	48,0 - 71,0	1,0 - 18,0	4,6	7,0	5,0
MILL135.047.01000 - 04699	1,0 - 4,699	48,0 - 71,0	1,0 - 18,0	4,7	7,0	5,0
MILL135.048.01000 - 04799	1,0 - 4,799	48,0 - 71,0	1,0 - 18,0	4,8	7,0	5,0
MILL135.049.01000 - 04899	1,0 - 4,899	48,0 - 71,0	1,0 - 18,0	4,9	7,0	5,0
MILL135.050.01500 - 04999	1,5 - 4,999	50,0 - 71,0	1,0 - 21,0	5,0	8,0	5,0
MILL135.055.01500 - 05499	1,5 - 5,499	50,0 - 71,0	1,0 - 21,0	5,5	8,5	5,0
MILL135.060.01500 - 05999	1,5 - 5,999	52,0 - 71,0	1,0 - 22,0	6,0	9,0	5,0
MILL135.065.01500 - 06499	1,5 - 6,499	52,0 - 71,0	1,0 - 22,0	6,5	9,5	5,0
MILL135.070.02000 - 06999	2,0 - 6,999	55,0 - 71,0	1,0 - 25,0	7,0	10,0	5,0
MILL135.075.02000 - 07499	2,0 - 7,499	55,0 - 71,0	1,0 - 25,0	7,5	10,5	5,0
MILL135.080.02500 - 07999	2,5 - 7,999	55,0 - 71,0	1,0 - 25,0	8,0	11,0	5,0
MILL135.090.02500 - 08999	2,5 - 8,999	55,0 - 71,0	1,0 - 25,0	9,0	12,0	5,0
MILL135.100.04000 - 09999	4,0 - 9,999	55,0 - 71,0	1,0 - 25,0	10,0	13,0	5,0
MILL135.110.04000 - 010999	4,0 - 10,999	60,0 - 71,0	1,0 - 31,0	11,0	14,0	5,0
MILL135.120.04000 - 011999	4,0 - 11,999	60,0 - 71,0	1,0 - 31,0	12,0	15,0	5,0

MILL210

BARRETTA IN METALLO DURO RETTIFICATA CON FORO
(SINTERIZZATO GREZZO)



Materiale: CF-H40S+

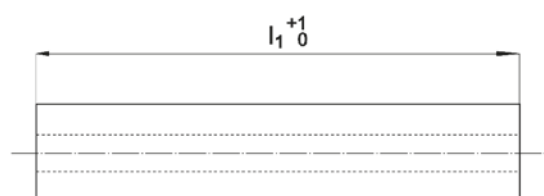
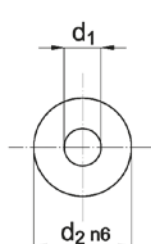
Stock o
consegna
breve



COME ORDINARE
MILL210.* d2*d1
(MILL210.050.005)

CARATTERISTICHE DEL PRODOTTO

Lunghezze complessive diverse, tolleranze e diversi gradi di durezza del metallo disponibili su richiesta.



NUMERO D'ORDINE	d1	d2	l1
MILL210.050.005	0,5	5,0	110,0
MILL210.060.005	0,5	6,0	110,0
MILL210.070.005	0,5	7,0	110,0
MILL210.080.010	1,0	8,0	110,0
MILL210.100.010	1,0	10,0	110,0
MILL210.120.020	2,0	12,0	110,0
MILL210.140.020	2,0	14,0	110,0
MILL210.160.020	2,0	16,0	110,0
MILL210.180.020	2,0	18,0	110,0

MILL220

VHM-MATRICE DI TRINCIATURA IN METALLO DURO GREZZO
CON PRE-FORO (SINTERIZZATO GREZZO)

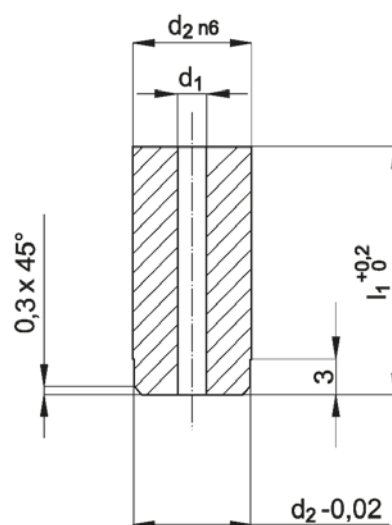


Materiale: CF-H40S+	Stock o consegna breve	 COME ORDINARE MILL220.* d3 *d1 (MILL220.050.005)
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CARATTERISTICHE DEL PRODOTTO

- Dimensioni di costruzione secondo DIN 9845 FORMA C

Lunghezze complessive diverse, altre tolleranze (es. h6) e diversi gradi di durezza del metallo disponibili su richiesta.



NUMERO D'ORDINE	d1	d2	l1
MILL220.050.005	0,5	5,0	20,7
MILL220.060.005	0,5	6,0	20,7
MILL220.070.005	0,5	7,0	20,7
MILL220.080.010	1,0	8,0	20,7
MILL220.100.010	1,0	10,0	20,7
MILL220.120.020	2,0	12,0	20,7
MILL220.140.020	2,0	14,0	20,7
MILL220.160.020	2,0	16,0	20,7
MILL220.200.020	2,0	20,0	20,7

MILL230

BUSSOLA DI GUIDA PUNZONE IN METALLO DURO



Materiale: CF-H40S+

Stock o
consegna
breve

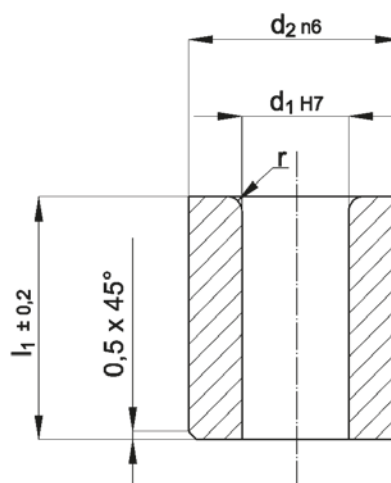


COME ORDINARE
MILL230.* d2*d1
(MILL230.050.005)

CARATTERISTICHE DEL PRODOTTO

- Dimensioni di costruzione secondo DIN 9845 FORMA C
- Grado HM standard: G10 / G20

Lunghezze complessive diverse, tolleranze e diversi gradi di durezza del metallo disponibili su richiesta.



NUMERO D'ORDINE	d1	d2	l1	r
MILL230.050.0030 - .0100	0,30 - 1,00	5,0	9,0	1,0
MILL230.060.0101 - .0200	1,01 - 2,00	6,0	12,0	1,0
MILL230.070.0201 - .0300	2,01 - 3,00	7,0	12,0	1,0
MILL230.080.0301 - .0400	3,01 - 4,00	8,0	12,0	1,0
MILL230.100.0401 - .0500	4,01 - 5,00	10,0	16,0	1,0
MILL230.120.0501 - .0600	5,01 - 6,00	12,0	16,0	1,5
MILL230.150.0601 - .0800	6,01 - 8,00	15,0	20,0	1,5
MILL230.180.0801 - .1000	8,01 - 10,0	18,0	20,0	2,0

MILL240

VHM-MATRICE DI TRANCIATURA IN METALLO DURO



****CONSEGNA ENTRO DUE SETTIMANE SENZA PROTEZIONE CONTRO GLI SFRIDI;
ENTRO TRE SETTIMANE CON PROTEZIONE CONTRO GLI SFRIDI.**

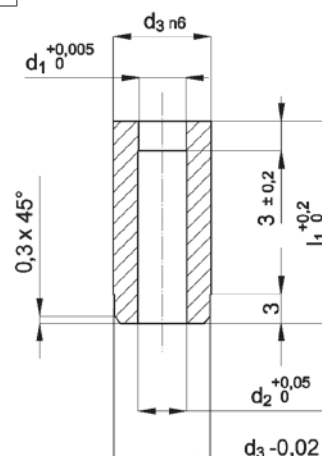
Materiale: CF-H40S+	**	 COME ORDINARE MILL240.* d3 *d1 (MILL240.060.01000-01099)
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CARATTERISTICHE DEL PRODOTTO

- Dimensioni secondo lo standard di fabbrica

Altre lunghezze complessive, tolleranze, diversi gradi di durezza del metallo e protezione sicurezza anti-sfrido sono disponibili su richiesta..

- A partire da Ø 0,08 disponibile come matrice speciale.
- A partire da Ø 1,1 mm disponibile anche con sicurezza anti-sfrido



NUMERO D'ORDINE	Variabile				Fissa	
	d1	l1	Pronto per l'installazione* ±0,01	Protezione contro gli sfridi	d2	d3
MILL240.060.01000-01099	1,0 - 1,099	10,00 - 20,00	si/no	si/no	1,2	6,0
MILL240.060.01100-01199	1,1 - 1,199	10,00 - 20,00	si/no	si/no	1,3	6,0
MILL240.060.01200-01299	1,2 - 1,299	10,00 - 20,00	si/no	si/no	1,4	6,0
MILL240.060.01300-01399	1,3 - 1,399	10,00 - 20,00	si/no	si/no	1,5	6,0
MILL240.060.01400-01499	1,4 - 1,499	10,00 - 20,00	si/no	si/no	1,6	6,0
MILL240.060.01500-01599	1,5 - 1,599	10,00 - 20,00	si/no	si/no	1,7	6,0
MILL240.060.01600-01699	1,6 - 1,699	10,00 - 20,00	si/no	si/no	1,8	6,0
MILL240.060.01700-01799	1,7 - 1,799	10,00 - 20,00	si/no	si/no	1,9	6,0
MILL240.060.01800-01899	1,8 - 1,899	10,00 - 20,00	si/no	si/no	2,0	6,0
MILL240.060.01900-01999	1,9 - 1,999	10,00 - 20,00	si/no	si/no	2,1	6,0
MILL240.070.02000-02099	2,0 - 2,099	10,00 - 20,00	si/no	si/no	2,2	7,0
MILL240.070.02100-02199	2,1 - 2,199	10,00 - 20,00	si/no	si/no	2,3	7,0
MILL240.070.02200-02299	2,2 - 2,299	10,00 - 20,00	si/no	si/no	2,4	7,0
MILL240.070.02300-02399	2,3 - 2,399	10,00 - 20,00	si/no	si/no	2,5	7,0
MILL240.070.02400-02499	2,4 - 2,499	10,00 - 20,00	si/no	si/no	2,6	7,0
MILL240.070.02500-02599	2,5 - 2,599	10,00 - 20,00	si/no	si/no	2,7	7,0
MILL240.070.02600-02699	2,6 - 2,699	10,00 - 20,00	si/no	si/no	2,8	7,0
MILL240.070.02700-02799	2,7 - 2,799	10,00 - 20,00	si/no	si/no	2,9	7,0
MILL240.070.02800-02899	2,8 - 2,899	10,00 - 20,00	si/no	si/no	3,0	7,0
MILL240.070.02900-02999	2,9 - 2,999	10,00 - 20,00	si/no	si/no	3,1	7,0
MILL240.080.03000-03099	3,0 - 3,099	10,00 - 20,00	si/no	si/no	3,2	8,0
MILL240.080.03100-03199	3,1 - 3,199	10,00 - 20,00	si/no	si/no	3,3	8,0
MILL240.080.03200-03299	3,2 - 3,299	10,00 - 20,00	si/no	si/no	3,4	8,0
MILL240.080.03300-03399	3,3 - 3,399	10,00 - 20,00	si/no	si/no	3,5	8,0
MILL240.080.03400-03499	3,4 - 3,499	10,00 - 20,00	si/no	si/no	3,6	8,0
MILL240.080.03500-03599	3,5 - 3,599	10,00 - 20,00	si/no	si/no	3,7	8,0
MILL240.080.03600-03699	3,6 - 3,699	10,00 - 20,00	si/no	si/no	3,8	8,0
MILL240.080.03700-03799	3,7 - 3,799	10,00 - 20,00	si/no	si/no	3,9	8,0
MILL240.080.03800-03899	3,8 - 3,899	10,00 - 20,00	si/no	si/no	4,0	8,0
MILL240.080.03900-03999	3,9 - 3,999	10,00 - 20,00	si/no	si/no	4,1	8,0
MILL240.100.04000-04099	4,0 - 4,099	10,00 - 20,00	si/no	si/no	4,2	10,0
MILL240.100.04100-04199	4,1 - 4,199	10,00 - 20,00	si/no	si/no	4,3	10,0
MILL240.100.04200-04299	4,2 - 4,299	10,00 - 20,00	si/no	si/no	4,4	10,0
MILL240.100.04300-04399	4,3 - 4,399	10,00 - 20,00	si/no	si/no	4,5	10,0
MILL240.100.04400-04499	4,4 - 4,499	10,00 - 20,00	si/no	si/no	4,6	10,0
MILL240.100.04500-04599	4,5 - 4,599	10,00 - 20,00	si/no	si/no	4,7	10,0
MILL240.100.04600-04699	4,6 - 4,699	10,00 - 20,00	si/no	si/no	4,8	10,0
MILL240.100.04700-04799	4,7 - 4,799	10,00 - 20,00	si/no	si/no	4,9	10,0
MILL240.100.04800-04899	4,8 - 4,899	10,00 - 20,00	si/no	si/no	5,0	10,0
MILL240.100.04900-04999	4,9 - 4,999	10,00 - 20,00	si/no	si/no	5,1	10,0

* Lunghezza totale pronta per l'installazione

MILL241

VHM-MATRICE DI TRANCIATURA IN METALLO DURO



**CONSEGNA ENTRO DUE SETTIMANE SENZA PROTEZIONE CONTRO GLI SFRIDI;
ENTRO TRE SETTIMANE CON PROTEZIONE CONTRO GLI SFRIDI.

Materiale: CF-H40S+

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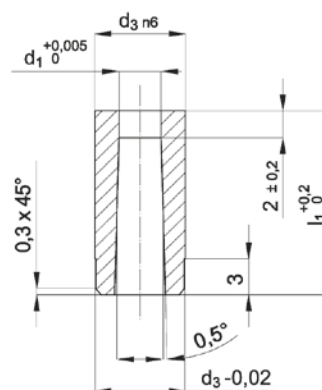
COME ORDINARE
MILL241.* d3 *d1
(MILL241.060.01000-01099)

CARATTERISTICHE DEL PRODOTTO

- Dimensioni secondo lo standard di fabbrica

Altre lunghezze complessive, tolleranze, diversi gradi di durezza del metallo e protezione sicurezza anti-sfrido sono disponibili su richiesta..

- A partire da Ø 0,08 disponibile come matrice speciale.
- A partire da Ø 1,1 mm disponibile anche con sicurezza anti-sfrido



NUMERO D'ORDINE	Variabile				Fissa
	d1	l1	Pronto per l'installazione* ±0,01	Protezione contro gli sfridi	d3
MILL241.060.01000-01099	1,0 - 1,099	10,00 - 20,00	si/no	si/no	6,0
MILL241.060.01100-01199	1,1 - 1,199	10,00 - 20,00	si/no	si/no	6,0
MILL241.060.01200-01299	1,2 - 1,299	10,00 - 20,00	si/no	si/no	6,0
MILL241.060.01300-01399	1,3 - 1,399	10,00 - 20,00	si/no	si/no	6,0
MILL241.060.01400-01499	1,4 - 1,499	10,00 - 20,00	si/no	si/no	6,0
MILL241.060.01500-01599	1,5 - 1,599	10,00 - 20,00	si/no	si/no	6,0
MILL241.060.01600-01699	1,6 - 1,699	10,00 - 20,00	si/no	si/no	6,0
MILL241.060.01700-01799	1,7 - 1,799	10,00 - 20,00	si/no	si/no	6,0
MILL241.060.01800-01899	1,8 - 1,899	10,00 - 20,00	si/no	si/no	6,0
MILL241.060.01900-01999	1,9 - 1,999	10,00 - 20,00	si/no	si/no	6,0
MILL241.070.02000-02099	2,0 - 2,099	10,00 - 20,00	si/no	si/no	7,0
MILL241.070.02100-02199	2,1 - 2,199	10,00 - 20,00	si/no	si/no	7,0
MILL241.070.02200-02299	2,2 - 2,299	10,00 - 20,00	si/no	si/no	7,0
MILL241.070.02300-02399	2,3 - 2,399	10,00 - 20,00	si/no	si/no	7,0
MILL241.070.02400-02499	2,4 - 2,499	10,00 - 20,00	si/no	si/no	7,0
MILL241.070.02500-02599	2,5 - 2,599	10,00 - 20,00	si/no	si/no	7,0
MILL241.070.02600-02699	2,6 - 2,699	10,00 - 20,00	si/no	si/no	7,0
MILL241.070.02700-02799	2,7 - 2,799	10,00 - 20,00	si/no	si/no	7,0
MILL241.070.02800-02899	2,8 - 2,899	10,00 - 20,00	si/no	si/no	7,0
MILL241.070.02900-02999	2,9 - 2,999	10,00 - 20,00	si/no	si/no	7,0
MILL241.080.03000-03099	3,0 - 3,099	10,00 - 20,00	si/no	si/no	8,0
MILL241.080.03100-03199	3,1 - 3,199	10,00 - 20,00	si/no	si/no	8,0
MILL241.080.03200-03299	3,2 - 3,299	10,00 - 20,00	si/no	si/no	8,0
MILL241.080.03300-03399	3,3 - 3,399	10,00 - 20,00	si/no	si/no	8,0
MILL241.080.03400-03499	3,4 - 3,499	10,00 - 20,00	si/no	si/no	8,0
MILL241.080.03500-03599	3,5 - 3,599	10,00 - 20,00	si/no	si/no	8,0
MILL241.080.03600-03699	3,6 - 3,699	10,00 - 20,00	si/no	si/no	8,0
MILL241.080.03700-03799	3,7 - 3,799	10,00 - 20,00	si/no	si/no	8,0
MILL241.080.03800-03899	3,8 - 3,899	10,00 - 20,00	si/no	si/no	8,0
MILL241.080.03900-03999	3,9 - 3,999	10,00 - 20,00	si/no	si/no	8,0
MILL241.100.04000-04099	4,0 - 4,099	10,00 - 20,00	si/no	si/no	10,0
MILL241.100.04100-04199	4,1 - 4,199	10,00 - 20,00	si/no	si/no	10,0
MILL241.100.04200-04299	4,2 - 4,299	10,00 - 20,00	si/no	si/no	10,0
MILL241.100.04300-04399	4,3 - 4,399	10,00 - 20,00	si/no	si/no	10,0
MILL241.100.04400-04499	4,4 - 4,499	10,00 - 20,00	si/no	si/no	10,0
MILL241.100.04500-04599	4,5 - 4,599	10,00 - 20,00	si/no	si/no	10,0
MILL241.100.04600-04699	4,6 - 4,699	10,00 - 20,00	si/no	si/no	10,0
MILL241.100.04700-04799	4,7 - 4,799	10,00 - 20,00	si/no	si/no	10,0
MILL241.100.04800-04899	4,8 - 4,899	10,00 - 20,00	si/no	si/no	10,0
MILL241.100.04900-04999	4,9 - 4,999	10,00 - 20,00	si/no	si/no	10,0

* Lunghezza totale pronta per l'installazione

