





























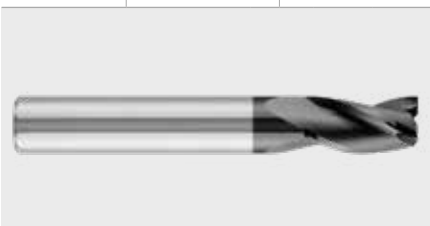







X-MILL MD

2022



INDICE GENERALE

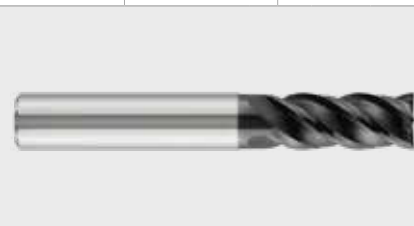


FRESE MD HM MILL

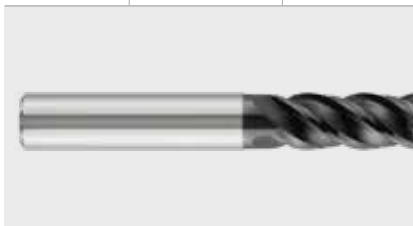


XE10AL			XE12AL			XE13AL		
ø D (mm)	2-20		ø D (mm)	4-20		ø D (mm)	3-20	
								
		N			N			N
pag 7			pag 7			pag 8		
XE06c			XE06CR			XE21c		
ø D (mm)	2-20		ø D (mm)	2-12		ø D (mm)	2-10	
								
		P M K			P M K			P M K
pag 9			pag 10			pag 11		
XE79c			XE01c			XE16c		
ø D (mm)	2-16		ø D (mm)	2-20		ø D (mm)	2-20	
								
		P M K			P M K			P M K
pag 11			pag 12			pag 13		
XE81c			XE36c			XE26c		
ø D (mm)	4-16		ø D (mm)	2-20		ø D (mm)	2-10	
								
		P M K			P M K			P M K
pag 13			pag 14			pag 14		




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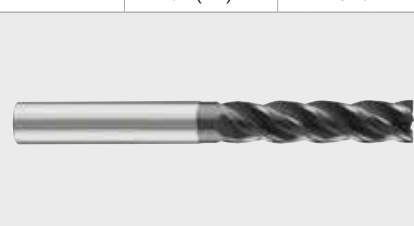


FRESE MD HM MILL

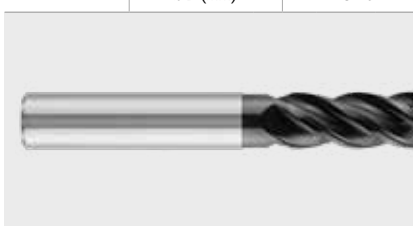


XE76c								
ø D (mm)	4-16							
								
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P	M	K						
pag 15								

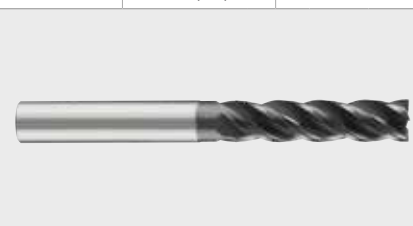

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P	M	K						
pag 15								

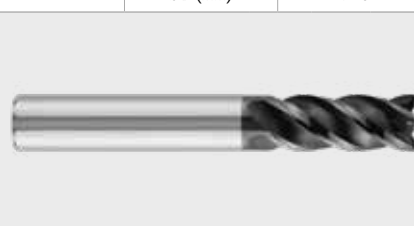


XE92c								
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P	M	K						
pag 16								




XE92cc/ccx								
ø D (mm)	3-20							
								
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P	M	K						
pag 17								


XE92L								
ø D (mm)	5-20							
								
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P	M	K						
pag 18								




XE94c								
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P	M							
	S							
pag 19								




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P	M							
	S							
pag 19								

XE93c								
ø D (mm)	4-20							
								
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P	M	K						
pag 20								

XE71								
ø D (mm)	4-20							
								
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P	M	K						
pag 21								

XE97c								
ø D (mm)	4-16							
								
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P	M	K						
pag 21								

XE29								
ø D (mm)	2-10							
								
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P	M	K						
pag 22								

XE56								
ø D (mm)	2-20							
								
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P	M	K						
pag 22								

XE56CR

ø D (mm) 2-12



		P	M	K
pag 23				

XE66

ø D (mm) 2-20



		P	M	K
pag 24				

XE61

ø D (mm) 6-20



		P	M	K
pag 24				

XE59

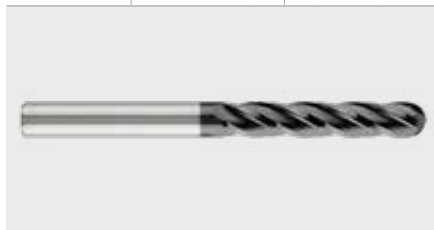
ø D (mm) 3-16



		P	M	K
pag 25				

XE83

ø D (mm) 6-16



		P	M	K
pag 25				

XE41 WAL

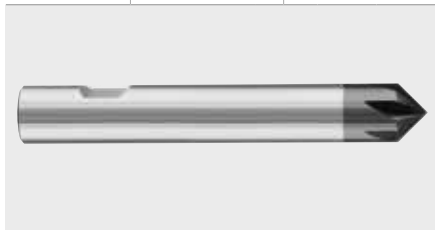
ø D (mm) 3-20



		P	M	K
pag 26				

XE42WAL

ø D (mm) 3-20









		P	M	K
pag 26				




INDICE GENERALE

FRESE MD

HM MILL




XM547		ø D (mm)	4,80-14,95
			
		P N	K S
pag 34			

XM548		ø D (mm)	4,80-14,95
			
		P N	K S
pag 35			

XM735		ø D (mm)	4,80-14,95
<i>2,5xD</i> 			
		P N	K S
pag 36			

XM653		ø D (mm)	3-25
			
		P S	M S
pag 38			

XM653		ø D (mm)	3-25
			
		P S	M S
pag 39			

XM871 UNIVERSAL		ø D (mm)	6-20
<i>Frese trocoidali</i> <i>Trochoidal mill</i> 			
		P	K
pag 40			

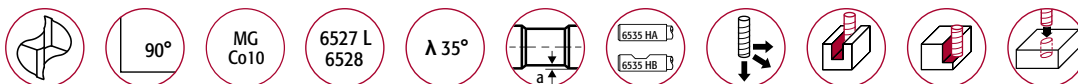
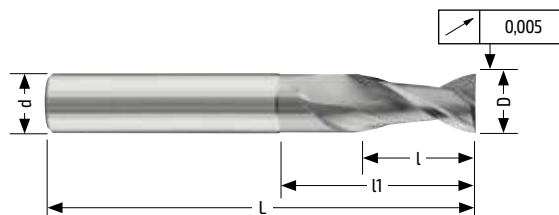
XM761 STAINLESS SPEED		ø D (mm)	3-20
<i>Frese trocoidali</i> <i>Trochoidal mill</i> 			
		S	M
pag 41			

XM632		ø D (mm)	8-25
<i>Frese trocoidali</i> <i>Trochoidal mill</i> 			
		P N	M S
48 HRC pag 42			

XM898		ø D (mm)	4-20
<i>Frese trocoidali</i> <i>Trochoidal mill</i> 			
		P N	M S
48 HRC pag 43			

XE10_{AL}

N



Fresa a 2 taglienti per alluminio 2 flute end mill for aluminium

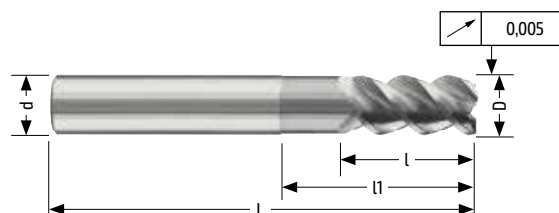
FR27

CODICE CODE	D h6	d h6	L	l ap	l1	a	Z	
XE-10 D2 AL	2,0	3	50	6	-	-	2	●
XE-10 D3 AL	3,0	3	50	7	18	0,10	2	●
XE-10 D4 AL	4,0	4	50	8	19	0,10	2	●
XE-10 D5 AL	5,0	5	50	10	21	0,10	2	●
XE-10 D6 AL	6,0	6	57	10	21	0,15	2	●
XE-10 D8 AL	8,0	8	63	16	27	0,15	2	●
XE-10 D10 AL	10,0	10	72	19	30	0,15	2	●
XE-10 D12 AL	12,0	12	83	22	38	0,20	2	●
XE-10 D14 AL	14,0	14	83	22	38	0,20	2	○
XE-10 D16 AL	16,0	16	92	26	42	0,20	2	●
XE-10 D20 AL	20,0	20	104	32	54	0,20	2	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE12_{AL}

N



Fresa a 3 taglienti per alluminio 3 flute end mill for aluminium

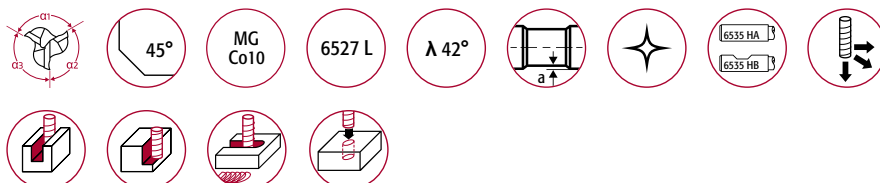
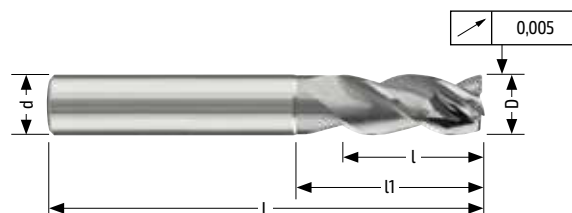
FR27

CODICE CODE	D h6	d h6	L	l ap	l1	a	Z	
XE-12 D4 AL	4,0	4	50	8	19	0,10	3	●
XE-12 D5 AL	5,0	5	50	10	21	0,10	3	●
XE-12 D6 AL	6,0	6	57	10	21	0,15	3	●
XE-12 D7 AL	7,0	7	60	13	24	0,15	3	○
XE-12 D8 AL	8,0	8	63	16	27	0,15	3	●
XE-12 D9 AL	9,0	9	67	16	27	0,15	3	○
XE-12 D10 AL	10,0	10	72	19	30	0,15	3	●
XE-12 D12 AL	12,0	12	83	22	38	0,20	3	●
XE-12 D14 AL	14,0	14	83	22	38	0,20	3	○
XE-12 D16 AL	16,0	16	92	26	42	0,20	3	●
XE-12 D20 AL	20,0	20	104	32	54	0,20	4	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE13_{AL}

N



Fresa 3 taglienti serie normale per alluminio con divisione irregolare
3 flute end mill with unequal flute spacing regular version

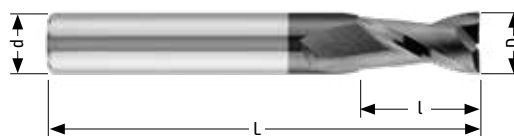
FR27

CODICE CODE	D h10	d h5	L	l ap	l1	a	45°	Z	
XE-13 D3 AL	3,0	6	57	8	-	-	0,05	3	●
XE-13 D4 AL	4,0	6	57	11	-	-	0,05	3	●
XE-13 D5 AL	5,0	6	57	13	-	-	0,10	3	●
XE-13 D6 AL	6,0	6	57	13	20	0,15	0,10	3	●
XE-13 D8 AL	8,0	8	63	19	25	0,15	0,15	3	●
XE-13 D10 AL	10,0	10	72	22	30	0,15	0,20	3	●
XE-13 D12 AL	12,0	12	83	26	36	0,20	0,25	3	●
XE-13 D16 AL	16,0	16	92	32	42	0,20	0,30	3	●
XE-13 D20 AL	20,0	20	104	38	52	0,20	0,35	3	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE06c

P **K** **M**



Fresa a 2 taglienti serie normale 2 flute end mill standard series

FR27

CODICE CODE	D h10	d h6	L	l ap	Z	
XE-06 D2 C	2,0	4	50	5	2	●
XE-06 D2.5 C	2,5	4	50	7	2	○
XE-06 D3 C	3,0	4	50	7	2	●
XE-06 D3.5 C	3,5	4	50	7	2	○
XE-06 D4 C	4,0	4	50	8	2	●
XE-06 D4.5 C	4,5	5	50	8	2	○
XE-06 D5 C	5,0	5	50	10	2	●
XE-06 D5.5 C	5,5	6	57	10	2	○
XE-06 D6 C	6,0	6	57	10	2	●
XE-06 D7 C	7,0	7	60	13	2	○
XE-06 D8 C	8,0	8	63	16	2	●
XE-06 D9 C	9,0	9	67	16	2	○
XE-06 D10 C	10,0	10	72	19	2	●
XE-06 D11 C	11,0	11	83	22	2	○
XE-06 D12 C	12,0	12	83	22	2	●
XE-06 D13 C	13,0	13	83	22	2	○
XE-06 D14 C	14,0	14	83	22	2	●
XE-06 D15 C	15,0	15	92	26	2	○
XE-06 D16 C	16,0	16	92	26	2	●
XE-06 D17 C	17,0	17	92	26	2	○
XE-06 D18 C	18,0	18	92	26	2	○
XE-06 D19 C	19,0	19	92	26	2	○
XE-061 D20 C	20,0	20	104	32	2	○

● Stock Italia/Warehouse in Italy

○ A Richiesta/On request

★ Stock estero/Warehouse abroad

☆ Disponibilità limitata/Limited availability

XE06_{CR}



Fresa a 2 taglienti serie normale

2 flute end mill standard series

FR27

CODICE CODE	D h10	d h6	L	l ap	Cr	Z	
XE-06CR05 D2	2,0	4	50	5	0,5	2	○
XE-06CR05 D3	3,0	4	50	7	0,5	2	○
XE-06CR05 D4	4,0	4	50	8	0,5	2	○
XE-06CR05 D6	6,0	6	57	10	0,5	2	○
XE-06CR05 D8	8,0	8	63	16	0,5	2	○
XE-06CR05 D10	10,0	10	72	19	0,5	2	○
XE-06CR05 D12	12,0	12	83	22	0,5	2	○

Fresa a 2 taglienti serie normale

2 flute end mill standard series

FR27

CODICE CODE	D h10	d h6	L	l ap	Cr	Z	
XE-06CR10 D5	5,0	5	50	10	1,0	2	○
XE-06CR10 D6	6,0	6	57	10	1,0	2	○
XE-06CR10 D8	8,0	8	63	16	1,0	2	○
XE-06CR10 D10	10,0	10	72	19	1,0	2	○
XE-06CR10 D12	12,0	12	83	22	1,0	2	○

Fresa a 2 taglienti serie normale

2 flute end mill standard series

FR27

CODICE CODE	D h10	d h6	L	l ap	Cr	Z	
XE-06CR15 D14	14,0	14	83	22	1,5	2	○
XE-06CR15 D16	16,0	16	92	26	1,5	2	○
XE-06CR15 D18	18,0	18	92	26	1,5	2	○

Fresa a 2 taglienti serie normale

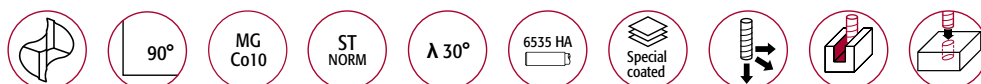
2 flute end mill standard series

FR27

CODICE CODE	D h10	d h6	L	l ap	Cr	Z	
XE-06CR20 D10	10,0	10	72	19	2,0	2	○
XE-06CR20 D12	12,0	12	83	22	2,0	2	○
XE-06CR20 D20	20,0	20	104	32	2,0	2	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE21c



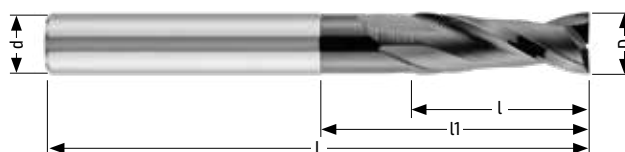
Fresa a 2 taglienti serie extra corta 2 flute end mill extra short series

FR27

CODICE CODE	D h10	d h6	L	l ap	Z	
XE-21 D2 C	2,0	6	38	3	2	○
XE-21 D3 C	3,0	6	38	4	2	○
XE-21 D4 C	4,0	6	38	5	2	○
XE-21 D5 C	5,0	6	38	6	2	○
XE-21 D6 C	6,0	6	38	7	2	○
XE-21 D7 C	7,0	8	43	9	2	○
XE-21 D8 C	8,0	8	43	9	2	○
XE-21 D9 C	9,0	10	50	11	2	○
XE-21 D10 C	10,0	10	50	11	2	○
XE-21 D12 C	12,0	12	63	12	2	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE79c



Fresa a 2 taglienti serie lunga 2 flute end mill long series

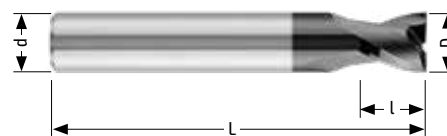
FR27

CODICE CODE	D h10	d h6	L	l ap	ll	a	Z	
XE-79 D3 C	3,0	3	62	14	-	-	2	○
XE-79 D4 C	4,0	4	62	16	-	-	2	○
XE-79 D5 C	5,0	5	62	20	-	-	2	○
XE-79 D6 C	6,0	6	78	20	30	0,15	2	○
XE-79 D8 C	8,0	8	78	25	35	0,15	2	○
XE-79 D10 C	10,0	10	105	28	48	0,15	2	○
XE-79 D12 C	12,0	12	105	32	52	0,20	2	○
XE-79 D16 C	16,0	16	130	40	60	0,20	2	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE01c

P K M



Fresa a 2 taglienti per sedi di chiavetta 2 flute end mill key slot

FR27

CODICE CODE	D e8	d h6	L	l ap	Z	
XE-01 D2 C	2,0	6	50	3	2	○
XE-01 D2,5 C	2,5	6	50	3	2	○
XE-01 D3 C	3,0	6	50	4	2	○
XE-01 D3,5 C	3,5	6	50	4	2	○
XE-01 D4 C	4,0	6	54	5	2	○
XE-01 D4,5 C	4,5	6	54	5	2	○
XE-01 D5 C	5,0	6	54	6	2	●
XE-01 D5,5 C	5,5	6	54	6	2	○
XE-01 D6 C	6,0	6	54	7	2	●
XE-01 D7 C	7,0	8	58	9	2	○
XE-01 D8 C	8,0	8	58	9	2	●
XE-01 D9 C	9,0	10	66	11	2	○
XE-01 D10 C	10,0	10	66	11	2	●
XE-01 D11 C	11,0	12	73	12	2	○
XE-01 D12 C	12,0	12	73	12	2	●
XE-01 D13 C	13,0	14	75	14	2	○
XE-01 D14 C	14,0	14	75	14	2	○
XE-01 D15 C	15,0	16	82	16	2	○
XE-01 D16 C	16,0	16	82	16	2	○
XE-01 D20 C	20,0	20	92	20	2	○

● Stock Italia/Warehouse in Italy

○ A Richiesta/On request

★ Stock estero/Warehouse abroad

☆ Disponibilità limitata/Limited availability

XE16c

P K M



Fresa semisferica a 2 taglienti serie normale

2 flute ball nose end mill standard series

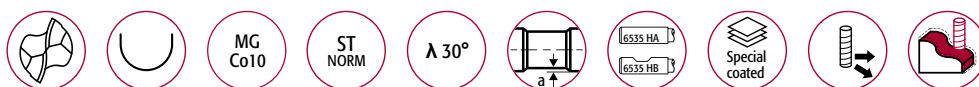
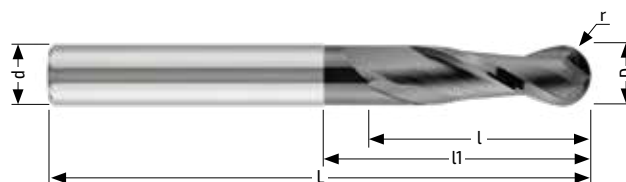
FR27

CODICE CODE	D h10	d h6	L	l ap	r	Z	
XE-16 D4 C	4,0	4	50	8	2,0	2	●
XE-16 D5 C	5,0	5	50	10	2,5	2	●
XE-16 D6 C	6,0	6	57	10	3,0	2	●
XE-16 D8 C	8,0	8	63	16	4,0	2	●
XE-16 D10 C	10,0	10	72	19	5,0	2	●
XE-16 D12 C	12,0	12	83	22	6,0	2	●
XE-16 D14 C	14,0	14	83	22	7,0	2	○
XE-16 D16 C	16,0	16	92	26	8,0	2	●
XE-16 D20 C	20,0	20	104	32	10,0	2	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE81c

P K M



Fresa semisferica a 2 taglienti serie lunga

2 flute ball nose end mill long series

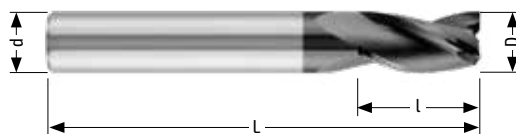
FR27

CODICE CODE	D h10	d h5	L	l ap	r	l1	a	Z	
XE-81 D4 C	4,0	4	62	16	2,0	-	-	2	●
XE-81 D5 C	5,0	5	62	20	2,5	-	-	2	●
XE-81 D6 C	6,0	6	78	20	3,0	30	0,15	2	●
XE-81 D8 C	8,0	8	78	25	4,0	35	0,15	2	●
XE-81 D10 C	10,0	10	105	28	5,0	48	0,15	2	●
XE-81 D12 C	12,0	12	105	32	6,0	52	0,20	2	●
XE-81 D16 C	16,0	16	130	40	8,0	60	0,20	2	●

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE36c

P K M



Fresa a 3 taglienti serie normale 3 flute end mill standard series

FR27

CODICE CODE	D h10	d h6	L	l ap	Z	
XE-36 D2 C	2,0	4	50	5	3	●
XE-36 D3 C	3,0	4	50	7	3	●
XE-36 D4 C	4,0	4	50	8	3	●
XE-36 D5 C	5,0	5	50	10	3	●
XE-36 D6 C	6,0	6	57	10	3	●
XE-36 D7 C	7,0	7	60	13	3	○
XE-36 D8 C	8,0	8	63	16	3	●
XE-36 D9 C	9,0	9	67	16	3	○
XE-36 D10 C	10,0	10	72	19	3	●
XE-36 D11 C	11,0	11	83	22	3	○
XE-36 D12 C	12,0	12	83	22	3	●
XE-36 D13 C	13,0	13	83	22	3	○
XE-36 D14 C	14,0	14	83	22	3	○
XE-36 D15 C	15,0	15	92	26	3	○
XE-36 D16 C	16,0	16	92	26	3	●
XE-36 D18 C	18,0	18	92	26	3	○
XE-36 D20 C	20,0	20	104	32	3	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE26c

P K M



Fresa a 3 taglienti serie extra corta 3 flute end mill extra short series

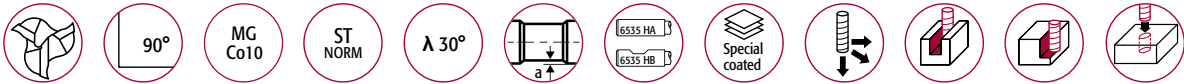
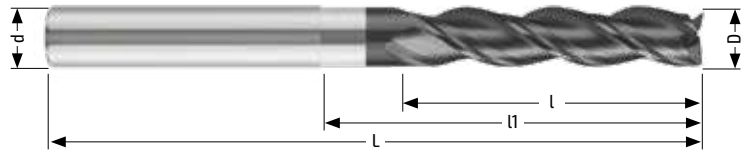
FR27

CODICE CODE	D h10	d h6	L	l ap	Z	
XE-26 D2 C	2,0	6	38	4	3	○
XE-26 D2.5 C	2,5	6	38	4	3	○
XE-26 D3 C	3,0	6	38	5	3	○
XE-26 D3.5 C	3,5	6	38	6	3	○
XE-26 D4 C	4,0	6	38	7	3	○
XE-26 D4.5 C	4,5	6	38	8	3	○
XE-26 D5 C	5,0	6	38	8	3	○
XE-26 D6 C	6,0	6	38	8	3	○
XE-26 D7 C	7,0	8	43	11	3	○
XE-26 D8 C	8,0	8	43	11	3	○
XE-26 D9 C	9,0	10	50	13	3	○
XE-26 D10 C	10,0	10	50	13	3	○
XE-26 D12 C	12,0	12	63	14	3	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE76c

P K M



Fresa a 3 taglienti serie lunga 3 flute end mill long series

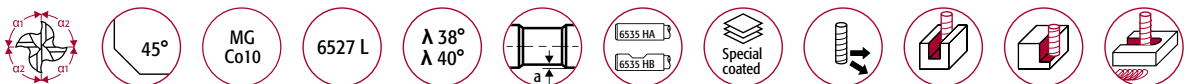
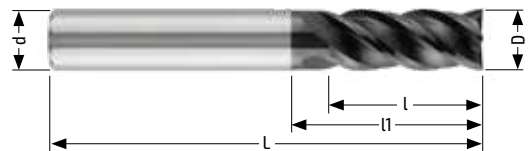
FR27

CODICE CODE	D h10	d h5	L	l ap	ll	a	Z	
XE-76 D4 C	4,0	4	62	16	-	-	3	○
XE-76 D5 C	5,0	5	62	20	-	-	3	○
XE-76 D6 C	6,0	6	78	20	30	0,15	3	○
XE-76 D8 C	8,0	8	78	25	35	0,15	3	○
XE-76 D10 C	10,0	10	105	28	48	0,15	3	○
XE-76 D12 C	12,0	12	105	32	52	0,20	3	○
XE-76 D16 C	16,0	16	130	40	60	0,20	3	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE95c

P K M



Fresa 4 taglienti serie normale con elica differenziata 4 flute end mill regular version with variable helix

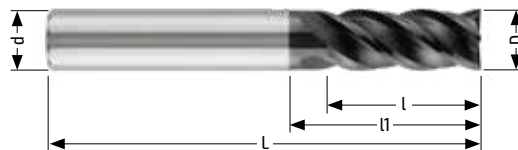
FR27

CODICE CODE	D h10	d h5	L	l ap	ll	a	45°	Z	
XE-95 D3 C	3,0	6	57	8	-	-	0,05	4	●
XE-95 D4 C	4,0	6	57	11	16	0,10	0,05	4	●
XE-95 D5 C	5,0	6	57	13	18	0,10	0,05	4	●
XE-95 D6 C	6,0	6	57	13	20	0,15	0,05	4	●
XE-95 D8 C	8,0	8	63	19	25	0,15	0,05	4	●
XE-95 D10 C	10,0	10	72	22	30	0,15	0,05	4	●
XE-95 D12 C	12,0	12	83	26	36	0,20	0,05	4	●
XE-95 D14 C	14,0	14	83	26	36	0,20	0,05	4	○
XE-95 D16 C	16,0	16	92	32	42	0,20	0,05	4	●
XE-95 D18 C	18,0	18	92	32	42	0,20	0,05	4	○
XE-95 D20 C	20,0	20	104	38	52	0,20	0,05	4	●

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE92_{C/CX}

P **K** **M**



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Fresa 4 taglienti serie normale 4 flute end mill normal version

FR27

CODICE CODE	D h10	d h5	L	l ap	l1	a	45°	Z	
XE-92 D3 C	3,0	3	38	8	-	-	-	4	●
XE-92 D3 C6	3,0	6	57	8	11	0,10	0,05	4	○
XE-92 D4 C	4,0	4	50	11	16	0,10	0,10	4	●
XE-92 D4 C6	4,0	6	57	9	16	0,10	0,10	4	○
XE-92 D5 C	5,0	5	50	13	18	0,10	0,10	4	●
XE-92 D5 C6	5,0	6	57	13	18	0,10	0,10	4	○
XE-92 D6 C	6,0	6	57	13	20	0,15	0,10	4	●
XE-92 D8 C	8,0	8	63	19	25	0,15	0,15	4	○
XE-92 D10 C	10,0	10	72	22	30	0,15	0,15	4	●
XE-92 D12 C	12,0	12	83	26	36	0,20	0,15	4	○
XE-92 D14 C	14,0	14	83	26	36	0,20	0,15	4	●
XE-92 D16 C	16,0	16	92	32	42	0,20	0,20	4	○
XE-92 D18 C	18,0	18	92	32	42	0,20	0,20	4	●
XE-92 D20 C	20,0	20	104	38	52	0,20	0,20	4	○

● Stock Italia/Warehouse in Italy

○ A Richiesta/On request

★ Stock estero/Warehouse abroad

☆ Disponibilità limitata/Limited availability



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Fresa 4 taglienti serie normale 4 flute end mill normal version

FR27

CODICE CODE	D h10	d h5	L	l ap	l1	a	45°	Z	
XE-92 D3 CX	3,0	3	38	8	-	-	-	4	○
XE-92 D3 CX6	3,0	6	57	8	11	0,10	-	4	○
XE-92 D4 CX	4,0	4	50	11	16	0,10	-	4	○
XE-92 D4 CX6	4,0	6	57	9	16	0,10	-	4	○
XE-92 D5 CX	5,0	5	50	13	18	0,10	-	4	○
XE-92 D5 CX6	5,0	6	57	13	18	0,10	-	4	○
XE-92 D6 CX	6,0	6	57	13	20	0,15	-	4	○
XE-92 D6 CX	8,0	8	63	19	25	0,15	-	4	○
XE-92 D10 CX	10,0	10	72	22	30	0,15	-	4	○
XE-92 D12 CX	12,0	12	83	26	36	0,20	-	4	○
XE-92 D14 CX	14,0	14	83	26	36	0,20	-	4	○
XE-92 D16 CX	16,0	16	92	32	42	0,20	-	4	○
XE-92 D18 CX	18,0	18	92	32	42	0,20	-	4	○
XE-92 D20 CX	20,0	20	104	38	52	0,20	-	4	○

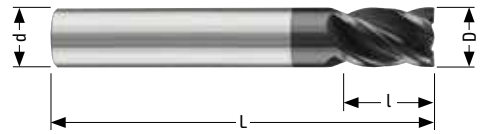
● Stock Italia/Warehouse in Italy

○ A Richiesta/On request

★ Stock estero/Warehouse abroad

☆ Disponibilità limitata/Limited availability

XE92_{CC/CCX}



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Fresa 4 taglienti serie corta 4 flute end mill short version

FR27

CODICE CODE	D h10	d h5	L	l ap	45°	Z	
XE-92 D3 CC	3,0	6	54	6	0,05	4	●
XE-92 D4 CC	4,0	6	54	8	0,10	4	●
XE-92 D5 CC	5,0	6	54	9	0,10	4	●
XE-92 D6 CC	6,0	6	54	10	0,10	4	●
XE-92 D8 CC	8,0	8	57	12	0,15	4	●
XE-92 D10 CC	10,0	10	66	14	0,15	4	●
XE-92 D12 CC	12,0	12	73	16	0,15	4	●
XE-92 D14 CC	14,0	14	75	18	0,15	4	○
XE-92 D16 CC	16,0	16	82	22	0,20	4	●
XE-92 D18 CC	18,0	18	84	24	0,20	4	○
XE-92 D20 CC	20,0	20	92	26	0,20	4	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability



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Fresa 4 taglienti serie corta 4 flute end mill short version

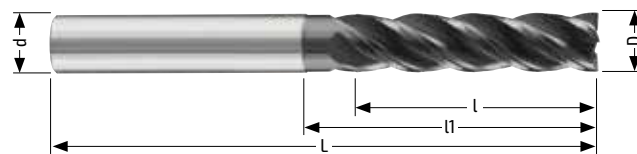
FR27

CODICE CODE	D h10	d h5	L	l ap		Z	
XE-92 D3 CCX	3,0	6	54	6	-	4	○
XE-92 D4 CCX	4,0	6	54	8	-	4	○
XE-92 D5 CCX	5,0	6	54	9	-	4	○
XE-92 D6 CCX	6,0	6	54	10	-	4	○
XE-92 D8 CCX	8,0	8	57	12	-	4	○
XE-92 D10 CCX	10,0	10	66	14	-	4	○
XE-92 D12 CCX	12,0	12	73	16	-	4	○
XE-92 D14 CCX	14,0	14	75	18	-	4	○
XE-92 D16 CCX	16,0	16	82	22	-	4	○
XE-92 D18 CCX	18,0	18	84	24	-	4	○
XE-92 D20 CCX	20,0	20	92	26	-	4	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE92L

P K M



Fresa 4 taglienti serie lunga 4 flute end mill long version

FR27

CODICE CODE	D h10	d h5	L	l ap	li	a	45°	Z	
XE-92 D5 L	5,0	6	74	20	25	0,10	0,10	4	○
XE-92 D6 L	6,0	6	74	24	30	0,15	0,10	4	●
XE-92 D8 L	8,0	8	80	32	40	0,15	0,15	4	●
XE-92 D10 L	10,0	10	87	40	46	0,15	0,15	4	●
XE-92 D12 L	12,0	12	105	48	58	0,20	0,15	4	●
XE-92 D14 L	14,0	14	105	48	58	0,20	0,15	4	○
XE-92 D16 L	16,0	16	125	64	68	0,20	0,20	4	○
XE-92 D20 L	20,0	20	160	70	80	0,20	0,20	4	○

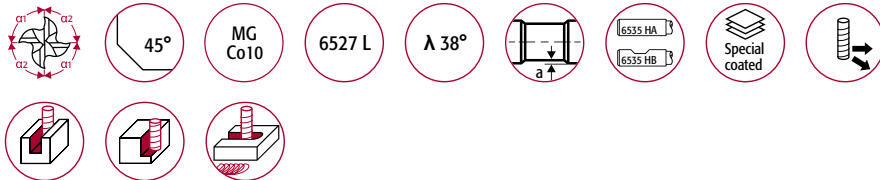
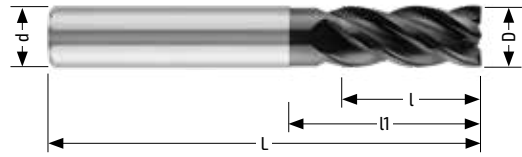
● Stock Italia/Warehouse in Italy

○ A Richiesta/On request

★ Stock estero/Warehouse abroad

☆ Disponibilità limitata/Limited availability

XE94c



Fresa 4 taglienti serie normale per inox e acciai dolci

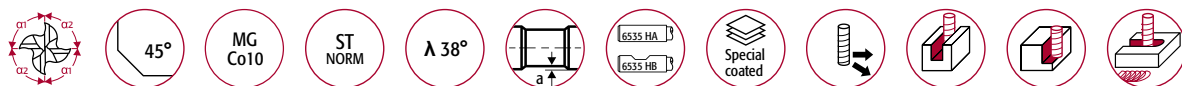
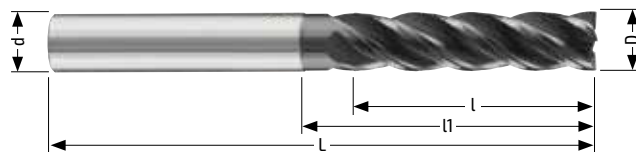
4 flute end mill regular version for inox and mild steel

FR27

CODICE CODE	D h10	d h5	L	l ap	l1	a	45°	Z	
XE-94 D3 C	3,0	6	57	8	11	0,10	0,10	4	○
XE-94 D4 C	4,0	6	57	9	16	0,10	0,10	4	○
XE-94 D5 C	5,0	6	57	13	18	0,10	0,10	4	○
XE-94 D6 C	6,0	6	57	13	20	0,15	0,10	4	●
XE-94 D8 C	8,0	8	63	19	25	0,15	0,15	4	●
XE-94 D10 C	10,0	10	72	22	30	0,15	0,15	4	●
XE-94 D12 C	12,0	12	83	26	36	0,20	0,15	4	●
XE-94 D14 C	14,0	14	83	26	36	0,20	0,15	4	○
XE-94 D16 C	16,0	16	92	32	42	0,20	0,20	4	○
XE-94 D18 C	18,0	18	92	32	42	0,20	0,20	4	○
XE-94 D20 C	20,0	20	104	38	52	0,20	0,20	4	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE94L



Fresa 4 taglienti serie lunga per inox e acciai dolci

4 flute end mill long version for inox and mild steel

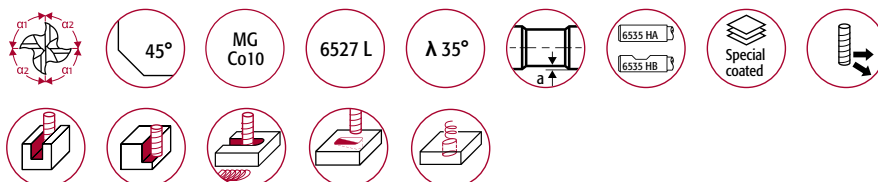
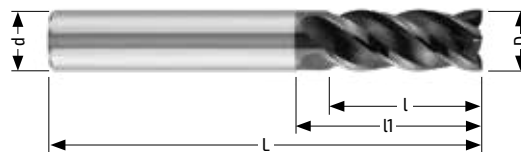
FR27

CODICE CODE	D h10	d h5	L	l ap	l1	a	45°	Z	
XE-94 D5 L	5,0	6	74	20	25	0,10	0,10	4	○
XE-94 D6 L	6,0	6	74	24	30	0,15	0,10	4	●
XE-94 D8 L	8,0	8	80	32	40	0,15	0,15	4	●
XE-94 D10 L	10,0	10	87	40	46	0,15	0,15	4	●
XE-94 D12 L	12,0	12	105	48	58	0,20	0,15	4	●
XE-94 D14 L	14,0	14	105	48	58	0,20	0,15	4	○
XE-94 D16 L	16,0	16	125	64	68	0,20	0,20	4	○
XE-94 D20 L	20,0	20	160	70	80	0,20	0,20	4	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE93c

P K M



Fresa universale a 4 taglienti adatta per la fresatura in rampa 4 flute multi-purpose end mill suitable for ramp milling

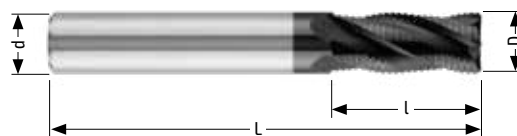
FR27

CODICE CODE	D h10	d h5	L	l ap	l1	45°	a	Z	
XE-93 D4 C	4,0	6	57	11	15	0,20	0,15	4	●
XE-93 D5 C	5,0	6	57	13	18	0,20	0,15	4	●
XE-93 D6 C	6,0	6	57	13	20	0,25	0,15	4	●
XE-93 D8 C	8,0	8	63	19	25	0,30	0,15	4	●
XE-93 D10 C	10,0	10	72	22	30	0,35	0,15	4	●
XE-93 D12 C	12,0	12	83	26	36	0,40	0,20	4	●
XE-93 D16 C	16,0	16	92	32	42	0,45	0,20	4	●
XE-93 D20 C	20,0	20	104	38	52	0,50	0,20	4	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE71

P K M



Fresa a sgrossare 4 taglienti con rompitruciolo serie normale

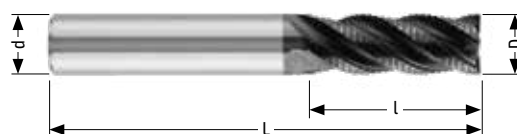
FR27

CODICE CODE	D h11	d h6	L	l ap	Z	
XE-71 D4 C	4,0	6	57	13	4	●
XE-71 D4,5 C	4,5	6	57	13	4	○
XE-71 D5 C	5,0	6	57	13	4	●
XE-71 D5,5 C	5,5	6	57	13	4	○
XE-71 D6 C	6,0	6	57	13	4	●
XE-71 D7 C	7,0	7	60	16	4	○
XE-71 D8 C	8,0	8	63	19	4	●
XE-71 D9 C	9,0	9	67	19	4	○
XE-71 D10 C	10,0	10	72	22	4	●
XE-71 D11 C	11,0	11	83	26	4	○
XE-71 D12 C	12,0	12	83	26	4	●
XE-71 D13 C	13,0	13	83	26	4	○
XE-71 D14 C	14,0	14	83	26	4	●
XE-71 D15 C	15,0	15	92	32	4	○
XE-71 D16 C	16,0	16	92	32	4	●
XE-71 D18 C	18,0	18	92	32	4	○
XE-71 D20 C	20,0	20	104	38	4	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE97c

P K M



Fresa a SGROSSARE 4 taglienti serie normale

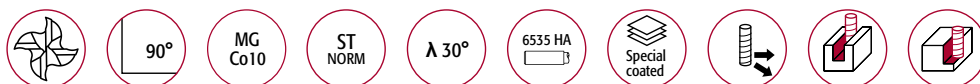
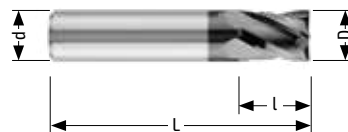
FR27

CODICE CODE	D h10	d h6	L	l ap	45°	Z	
XE-97 D4 C6	4,0	6	57	13	0,70	4	●
XE-97 D5 C6	5,0	6	57	13	0,80	4	●
XE-97 D6 C6	6,0	6	57	13	0,80	4	●
XE-97 D8 C8	8,0	8	63	19	0,80	4	●
XE-97 D10 C	10,0	10	72	22	0,80	4	●
XE-97 D12 C	12,0	12	83	26	0,90	4	●
XE-97 D16 C	16,0	16	92	32	0,90	4	●

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE29

P K M



Fresa a 4 taglienti serie extra corta

4 flute end mill extra short series

FR27

CODICE CODE	D h10	d h5	L	l ap	Z	
XE-29 D2 C	2,0	6	38	4	4	○
XE-29 D3 C	3,0	6	38	5	4	○
XE-29 D4 C	4,0	6	38	7	4	○
XE-29 D5 C	5,0	6	38	8	4	○
XE-29 D6 C	6,0	6	38	8	4	○
XE-29 D8 C	8,0	8	43	11	4	○
XE-29 D10 C	10,0	10	50	13	4	○
XE-29 D12 C	12,0	12	63	14	4	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE56

P K M



Fresa a 4 taglienti serie normale

4 flute end mill standard series

FR27

CODICE CODE	D h10	d h5	L	l ap	Z	
XE-56 D2 C	2,0	4	50	7	4	●
XE-56 D2.5 C	2,5	4	50	8	4	●
XE-56 D3 C	3,0	4	50	8	4	●
XE-56 D3.5 C	3,5	4	50	10	4	●
XE-56 D4 C	4,0	4	50	11	4	●
XE-56 D4.5 C	4,5	5	50	11	4	●
XE-56 D5 C	5,0	5	50	13	4	●
XE-56 D5.5 C	5,5	6	57	13	4	○
XE-56 D6 C	6,0	6	57	13	4	●
XE-56 D6.5 C	6,5	7	60	16	4	○
XE-56 D7 C	7,0	7	60	16	4	○
XE-56 D7.5 C	7,5	8	63	19	4	○
XE-56 D8 C	8,0	8	63	19	4	●
XE-56 D8.5 C	8,5	9	67	19	4	○
XE-56 D9 C	9,0	9	67	19	4	○
XE-56 D9.5 C	9,5	10	72	22	4	○
XE-56 D10 C	10,0	10	72	22	4	●
XE-56 D11 C	11,0	11	83	26	4	○
XE-56 D12 C	12,0	12	83	26	4	●
XE-56 D13 C	13,0	13	83	26	4	○
XE-56 D14 C	14,0	14	83	26	4	○
XE-56 D15 C	15,0	15	92	32	4	○
XE-56 D16 C	16,0	16	92	32	4	●
XE-56 D18 C	18,0	18	92	32	4	○
XE-56 D20 C	20,0	20	104	38	4	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE56CR



Fresa a 4 taglienti serie normale FR27
4 flute end mill standard series

CODICE CODE	D h10	d h6	L	l ap	Cr	Z	
XE-56CR05 D2	2,0	4	50	7	0,5	4	●
XE-56CR05 D3	3,0	4	50	8	0,5	4	●
XE-56CR05 D4	4,0	4	50	11	0,5	4	●
XE-56CR05 D6	6,0	6	57	13	0,5	4	●
XE-56CR05 D8	8,0	8	63	19	0,5	4	●
XE-56CR05 D10	10,0	10	72	22	0,5	4	●
XE-56CR05 D12	12,0	12	83	26	0,5	4	●

Fresa a 4 taglienti serie normale FR27
4 flute end mill standard series

CODICE CODE	D h10	d h6	L	l ap	Cr	Z	
XE-56CR10 D5	5,0	5	50	13	1,0	4	●
XE-56CR10 D6	6,0	6	57	13	1,0	4	○
XE-56CR10 D8	8,0	8	63	19	1,0	4	○
XE-56CR10 D10	10,0	10	72	22	1,0	4	○
XE-56CR10 D12	12,0	12	83	26	1,0	4	○

Fresa a 4 taglienti serie normale FR27
4 flute end mill standard series

CODICE CODE	D h10	d h6	L	l ap	Cr	Z	
XE-56CR15 D14	14,0	14	83	26	1,5	4	○
XE-56CR15 D16	16,0	16	92	32	1,5	4	●
XE-56CR15 D18	18,0	18	92	32	1,5	4	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

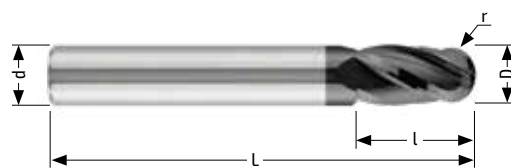
Fresa a 4 taglienti serie normale FR27
4 flute end mill standard series

CODICE CODE	D h10	d h6	L	l ap	Cr	Z	
XE-56CR20 D10	10,0	10	72	22	2,0	4	○
XE-56CR20 D12	12,0	12	83	26	2,0	4	○
XE-56CR20 D20	20,0	20	104	38	2,0	4	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE66

P K M



Fresa semisferica a 4 taglienti serie normale

4 flute ball nose end mill standard series

FR27

CODICE CODE	D h10	d h6	L	l ap	r	Z	
XE-66 D2 C	2,0	3	38	5	1,0	4	○
XE-66 D3 C	3,0	3	38	7	1,5	4	○
XE-66 D4 C	4,0	4	50	8	2,0	4	○
XE-66 D5 C	5,0	5	50	10	2,5	4	○
XE-66 D6 C	6,0	6	57	10	3,0	4	○
XE-66 D7 C	7,0	7	60	13	3,5	4	○
XE-66 D8 C	8,0	8	63	16	4,0	4	○
XE-66 D9 C	9,0	9	67	16	4,5	4	○
XE-66 D10 C	10,0	10	72	19	5,0	4	○
XE-66 D12 C	12,0	12	83	22	6,0	4	○
XE-66 D13 C	13,0	13	83	22	6,5	4	○
XE-66 D14 C	14,0	14	83	22	7,0	4	○
XE-66 D16 C	16,0	16	92	26	8,0	4	○
XE-66 D18 C	18,0	18	92	26	9,0	4	○
XE-66 D20 C	20,0	20	104	32	10,0	4	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE83

P K M



Fresa semisferica a 4 taglienti serie lunga

4 flute ball nose end mill long series

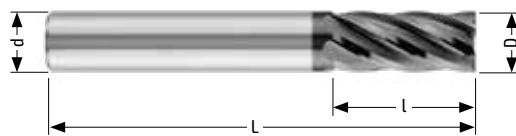
FR27

CODICE CODE	D h10	d h6	L	l ap	r	Z	
XE-83 D6 C	6,0	6	105	42	3,0	4	○
XE-83 D8 C	8,0	8	105	50	4,0	4	○
XE-83 D10 C	10,0	10	120	50	5,0	4	○
XE-83 D12 C	12,0	12	160	65	6,0	4	○
XE-83 D16 C	16,0	16	160	70	8,0	4	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE61

P K M



Fresa a 6 taglienti serie normale 6 flute end mill standard series

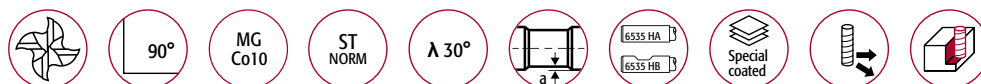
FR27

CODICE CODE	D h10	d h6	L	l ap	Z	
XE-61 D6 C	6,0	6	57	13	6	●
XE-61 D8 C	8,0	8	63	19	6	●
XE-61 D10 C	10,0	10	72	22	6	●
XE-61 D12 C	12,0	12	83	26	6	●
XE-61 D14 C	14,0	14	83	26	6	○
XE-61 D16 C	16,0	16	92	32	6	○
XE-61 D20 C	20,0	20	104	38	8	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE59

P K M



Fresa a 4 taglienti serie lunga 4 flute end mill long series

FR27

CODICE CODE	D h10	d h6	L	l ap	l1	a	Z	
XE-59 D3 C	3,0	3	62	14	-	-	4	○
XE-59 D4 C	4,0	4	62	16	-	-	4	●
XE-59 D5 C	5,0	5	62	20	-	-	4	●
XE-59 D6 C	6,0	6	78	20	30	0,15	4	●
XE-59 D8 C	8,0	8	78	25	35	0,15	4	●
XE-59 D10 C	10,0	10	105	28	48	0,15	4	●
XE-59 D12 C	12,0	12	105	32	52	0,20	4	●
XE-59 D16 C	16,0	16	130	40	60	0,20	4	●

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE41WAL



Fresa per smussi 60°
End mill for chamfer 60°

FR27

CODICE CODE	D h10	d h5	L	Z	
XE-41 D3	3,0	4	50	4	★
XE-41 D4	4,0	4	50	4	●
XE-41 D6 WAL	6,0	6	57	6	●
XE-41 D8 WAL	8,0	8	63	6	●
XE-41 D10 WAL	10,0	10	72	6	●
XE-41 D12 WAL	12,0	12	83	6	★
XE-41 D16 WAL	16,0	16	92	6	★
XE-41 D20 WAL	20,0	20	104	6	★

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

XE42WAL

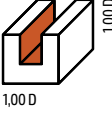
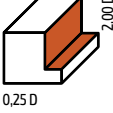
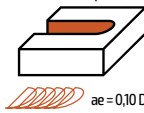
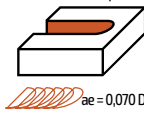


Fresa per smussi 90°
End mill for chamfer 90°

FR27

CODICE CODE	D h10	d h5	L	Z	
XE-42 D3 WAL	3,0	4	50	4	○
XE-42 D4 WAL	4,0	4	50	4	●
XE-42 D6 WAL	6,0	6	57	6	●
XE-42 D8 WAL	8,0	8	63	6	●
XE-42 D10 WAL	10,0	10	72	6	●
XE-42 D12 WAL	12,0	12	83	6	●
XE-42 D16 WAL	16,0	16	92	6	●
XE-42 D20 WAL	20,0	20	104	6	●

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability

		XE-94C											XE-94L			
Materiale Material	Diámetro Diameter					Vedi nota See note										
Inox ferritico Ferritic stainless steel	m/min	Vc=130				Vc=140				Vc=160			Vc=140			
	D mm	fz mm/z	F mm/min	n rpm	fz mm/z	F mm/min	n rpm	fz mm/z	F mm/min	n rpm	fz mm/z	F mm/min	n rpm			
	3,0	0,013	718	13800	0,013	773	14862	0,025	1698	16977	-	-	-			
	4,0	0,020	828	10350	0,020	892	11146	0,040	2037	12732	-	-	-			
	5,0	0,025	828	8280	0,025	892	8917	0,050	2037	10186	0,060	2139	8913			
	6,0	0,030	828	6900	0,030	892	7431	0,060	2037	8488	0,070	2080	7427			
	8,0	0,040	828	5175	0,040	892	5573	0,080	2037	6366	0,090	2005	5570			
	10,0	0,050	828	4140	0,050	892	4459	0,100	2037	5093	0,110	1961	4456			
	12,0	0,060	828	3450	0,060	892	3715	0,120	2037	4244	0,130	1931	3714			
	14,0	0,065	759	2956	0,065	828	3183	0,130	1892	3638	-	-	-			
16,0	0,070	725	2588	0,070	780	2787	0,140	1782	3183	0,150	1671	2785				
18,0	0,075	690	2299	0,075	743	2476	0,150	1697	2829	-	-	-				
20,0	0,080	662	2070	0,080	713	2229	0,160	1629	2546	0,200	1782	2228				
	m/min	Vc=110				Vc=120				Vc=150			Vc=130			
	D mm	fz mm/z	F mm/min	n rpm	fz mm/z	F mm/min	n rpm	fz mm/z	F mm/min	n rpm	fz mm/z	F mm/min	n rpm			
3,0	0,013	607	11677	0,013	662	12739	0,025	1592	15915	-	-	-				
4,0	0,020	701	8758	0,020	764	9554	0,040	1910	11937	-	-	-				
5,0	0,025	701	7006	0,025	764	7643	0,050	1910	9549	0,060	2292	9549				
6,0	0,030	701	5839	0,030	764	6369	0,060	1910	7958	0,070	2228	7958				
8,0	0,040	701	4379	0,040	764	4777	0,080	1910	5968	0,090	2148	5968				
10,0	0,050	701	3503	0,050	764	3822	0,100	1910	4775	0,110	2101	4775				
12,0	0,060	701	2919	0,060	764	3185	0,120	1910	3979	0,130	2069	3979				
14,0	0,065	650	2501	0,065	709	2728	0,130	1773	3410	-	-	-				
16,0	0,070	613	2189	0,070	669	2389	0,140	1671	2984	0,150	1790	2984				
18,0	0,075	584	1945	0,075	637	2122	0,150	1592	2653	-	-	-				
20,0	0,080	561	1752	0,080	611	1911	0,160	1528	2387	0,200	1910	2387				
	m/min	Vc=60				Vc=70				Vc=90			Vc=90			
	D mm	fz mm/z	F mm/min	n rpm	fz mm/z	F mm/min	n rpm	fz mm/z	F mm/min	n rpm	fz mm/z	F mm/min	n rpm			
3,0	0,005	127	6369	0,010	297	7431	0,020	764	9549	-	-	-				
4,0	0,007	124	4777	0,016	357	5573	0,032	917	7162	-	-	-				
5,0	0,009	130	3822	0,020	357	4459	0,040	917	5730	0,030	688	5730				
6,0	0,010	127	3185	0,030	446	3715	0,060	1146	4775	0,040	764	4775				
8,0	0,013	124	2389	0,040	446	2787	0,080	1146	3581	0,060	859	3581				
10,0	0,018	138	1911	0,050	446	2229	0,100	1146	2865	0,080	917	2865				
12,0	0,022	140	1592	0,060	446	1858	0,120	1146	2387	0,100	955	2387				
14,0	0,027	147	1364	0,070	446	1592	0,140	1146	2046	-	-	-				
16,0	0,032	153	1194	0,080	446	1393	0,160	1146	1790	0,140	1002	1790				
18,0	0,036	153	1061	0,090	446	1238	0,180	1146	1592	-	-	-				
20,0	0,040	153	955	0,100	446	1115	0,200	1146	1432	0,180	1031	1432				
	m/min	Vc=130				Vc=140				Vc=170			Vc=150			
	D mm	fz mm/z	F mm/min	n rpm	fz mm/z	F mm/min	n rpm	fz mm/z	F mm/min	n rpm	fz mm/z	F mm/min	n rpm			
3,0	0,013	718	13800	0,013	773	14862	0,025	1804	18038	-	-	-				
4,0	0,020	828	10350	0,020	892	11146	0,040	2164	13528	-	-	-				
5,0	0,025	828	8280	0,025	892	8917	0,050	2165	10823	0,060	2598	10823				
6,0	0,030	828	6900	0,030	892	7431	0,060	2165	9019	0,070	2525	9019				
8,0	0,040	828	5175	0,040	892	5573	0,080	2164	6764	0,090	2435	6764				
10,0	0,050	828	4140	0,050	892	4459	0,100	2164	5411	0,110	2381	5411				
12,0	0,060	828	3450	0,060	892	3715	0,120	2164	4509	0,130	2345	4509				
14,0	0,065	769	2956	0,065	828	3183	0,130	2010	3865	-	-	-				
16,0	0,070	725	2588	0,070	780	2787	0,140	1894	3382	0,150	2029	3382				
18,0	0,075	690	2299	0,075	743	2476	0,150	1804	3006	-	-	-				
20,0	0,080	662	2070	0,080	713	2229	0,160	1732	2706	0,200	2165	2706				

Serie lunga: parametri di lavoro di riferimento da adattare in base all'impegno utensile. / Long series: reference parameters to be adjusted based on tool engagement.

XM-MILL

XM547



Fresa a filettare in metallo duro/Solid carbide thread milling cutters

FR27

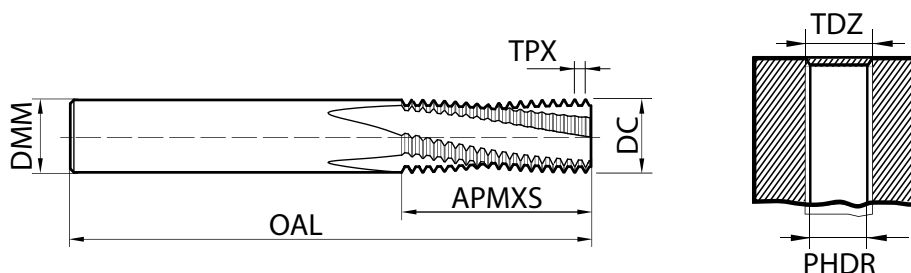
CODICE CODE	TDZ	TPX*60°	DC	DMM	PHDR	OAL	APMXS	Z	
XM-547 M6 Z3-WE	M6	1,00	4,80	6	5	54	13,50	3	●
XM-547 M8 Z3-WE	M8	1,25	6,40	8	6,8	62	18,10	3	○
XM-547 M10 Z3-WE	M10	1,50	7,95	10	8,5	74	21,80	3	○
XM-547 M12 Z4-WE	M12	1,75	9,95	10	10,2	74	25,40	4	○
XM-547 M14 Z4-WE	M14	2,00	11,20	12	12	90	31,00	4	●
XM-547 M16 Z4-WE	M16	2,00	12,80	14	14	90	35,00	4	●
XM-547 M20 Z4-WE	M20	2,50	14,95	16	17,5	102	41,30	4	●

● Stock Italia/Warehouse in Italy

○ A Richiesta/On request

★ Stock estero/Warehouse abroad

☆ Disponibilità limitata/Limited availability



Frese a filettare in metallo duro adatte a tutti i materiali senza fori di lubrificazione, attacco weldon. Possibilità di fare filetti destri e sinistri con un'unica fresa, tolleranze regolabili a piacere. Con lo stesso passo è possibile fare filetti di diametri diversi.

Carbide thread drills suitable for all materials without lubrication holes, weldon connection. Right and left threads with a single milling cutter, adjustable tolerances. With the same step it is possible to make threads of different diameters.

XM548

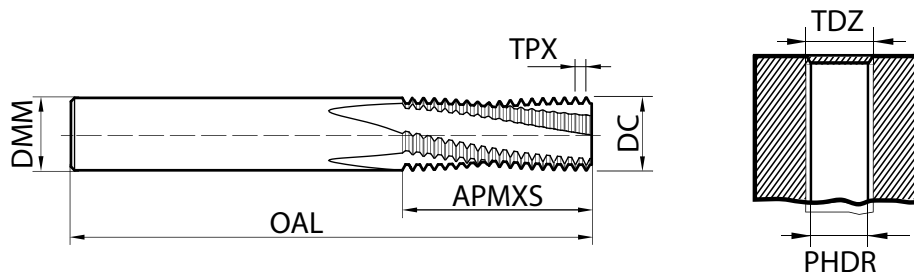


Fresa a filettare in metallo duro/Solid carbide thread milling cutters

FR27

CODICE CODE	TDZ	TPX*60°	DC	DMM	PHDR	OAL	APMXS	Z	
XM-548 M6-A Z3-C	M6	1,00	4,80	6	5	54	13,50	3	○
XM-548 M8-A Z3-C	M8	1,25	6,40	8	6,8	62	18,10	3	●
XM-548 M10-A Z3-C	M10	1,50	7,95	10	8,5	74	21,80	3	●
XM-548 M12-A Z4-C	M12	1,75	9,95	10	10,2	74	25,40	4	●
XM-548 M14-A Z4-C	M14	2,00	11,20	12	12	90	31,00	4	●
XM-548 M16-A Z4-C	M16	2,00	12,80	14	14	90	35,00	4	●
XM-548 M20-A Z4-C	M20	2,50	14,95	16	17,5	102	41,30	4	●

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability



Frese a filettare in metallo duro adatte a tutti i materiali con fori di lubrificazione, attacco cilindrico. Possibilità di fare filetti destri e sinistri con un'unica fresa, tolleranze regolabili a piacere. Con lo stesso passo è possibile fare filetti di diametri diversi.

Carbide thread drills suitable for all materials with lubrication holes, cylindrical connection. Right and left threads with a single milling cutter, adjustable tolerances. With the same step it is possible to make threads of different diameters.

XM-MILL

XM735



Fresa a filettare in metallo duro/Solid carbide thread milling cutters

FR28

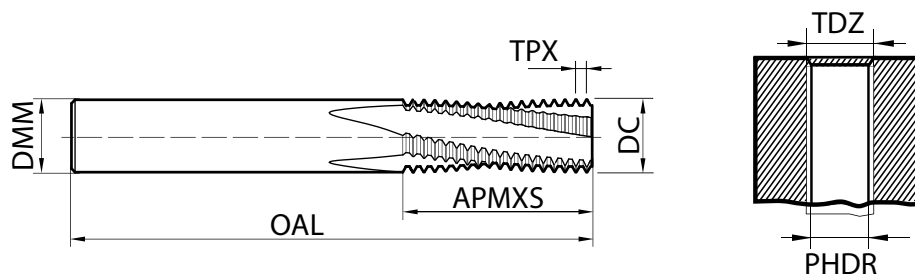
CODICE CODE	TDZ	TPX*60°	DC	DMM	PHDR	OAL.	APMXS	Z
XM-735 M6-A Z3-C	M6	1,00	4,80	6	5	54	13,50	3
XM-735 M8-A Z3-C	M8	1,25	6,40	8	6,8	62	18,10	3
XM-735 M10-A Z3-C	M10	1,50	7,95	10	8,5	74	21,80	3
XM-735 M12-A Z4-C	M12	1,75	9,95	10	10,2	74	25,40	4
XM-735 M14-A Z4-C	M14	2,00	11,20	12	12	90	31,00	4
XM-735 M16-A Z4-C	M16	2,00	12,80	14	14	90	35,00	4
XM-735 M20-A Z4-C	M20	2,50	14,95	16	17,5	102	41,30	4

● Stock Italia/Warehouse in Italy

○ A Richiesta/On request

★ Stock estero/Warehouse abroad

☆ Disponibilità limitata/Limited availability



Frese a filettare in metallo duro adatte a tutti i materiali con fori di lubrificazione, attacco cilindrico. Possibilità di fare filetti destri e sinistri con un'unica fresa, tolleranze regolabili a piacere. Con lo stesso passo è possibile fare filetti di diametri diversi.

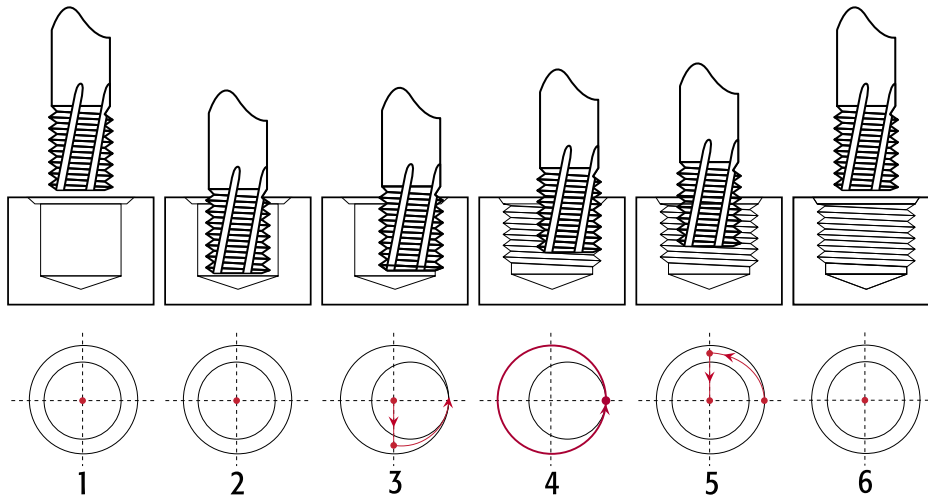
Carbide thread drills suitable for all materials with lubrication holes, cylindrical connection. Right and left threads with a single milling cutter, adjustable tolerances. With the same step it is possible to make threads of different diameters.

INFORMAZIONI TECNICHE/TECHNICAL INFORMATION

Dati di taglio/Cutting data

MATERIALE MATERIAL	Vc (m/min)	Fz=DC x coeff. Coeff.	Lavorazione consigliata
Acciaio basso legato/Low alloy steel	120/160	0,0020	●
Acciaio medio legato/Medium alloy steel	80/120	0,0020	●
Acciaio legato, per stampi-utensili/Alloy steel for dies-tools	60/100	0,0015	○
Inox/ss	50/90	0,0015	○
Duplex, leghe titanio, inconel 625/Duplex steel, titanium alloys, Inconel 625	40/70	0,0010	○
Ghisa/Cast iron	90/140	0,0020	●
Materiali non ferrosi, alluminio/Aluminium	160/200	0,0020	○

Esempio di ciclo di lavorazione



- 1 Posizionamento centro foro e avvio rotazione mandrino, inserimento lavoro incrementale.
- 2 Avvicinamento in Z alla profondità di lavoro, inserimento compensazione raggio.
- 3 Ingresso dolce con rotazione di 180° e incremento Z metà passo.
- 4 Ciclo di lavorazione con rotazione di 360° e incremento in Z pari al passo del filetto.
- 5 Uscita dolce con rotazione 180°, incremento Z metà passo e disattivazione compensazione raggio.
- 6 Uscita dal foro, disattivazione lavoro incrementale e fine ciclo.

- 1 Center hole positioning and spindle rotation start, incremental job insertion.
- 2 Approach in Z to the working depth, insertion of radius compensation.
- 3 Sweet input with 180° rotation and Z increment half step.
- 4 Machining cycle with 360° rotation and Z increment equal to thread pitch.
- 5 Soft output with 180° rotation, Z increment half step and radius compensation deactivation.
- 6 Exit from the hole, deactivate incremental work and end cycle.

Per i CNC che non calcolano automaticamente l'avanzamento dal centro dell'utensile, deve essere preso in considerazione il valore V_{fm}.

$V_f = f_z \times Z \times n$ avanzamento in contornatura

$V_{fm} = \frac{V_f \times (TDZ-DC)}{TDZ}$ avanzamento dal centro fresa

Esempio indicativo parametri per M12 acciai medio legato

Vc.	100	S (n° giri):	$\frac{100 \times 1000}{9,95 \times 3,14} = 3200$
DC	9,95		
Z	4		
M	12	Fz (mm) = DC x coeff. :	$9,95 \times 0,002 = 0,02$
		Vf periferico (mm/min):	$3200 \times 0,02 \times 4 = 256$
		V _{fm} centro fresa (mm/min):	$\frac{256 \times (12-9,95)}{12} = 44$

XM-MILL

XM653

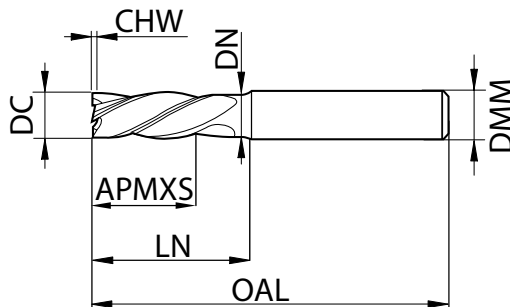


Fresa MD per lavorazioni universali/Solid carbide for general machining

FR27

CODICE CODE	D h10	DMM h6	DN	OAL	APMXS	LN	CHW	Z	
XM-653 D3.00 Z4-C	3	6	2,8	57	8	15	0,1X45°	4	●
XM-653 D4.00 Z4-C	4	6	3,8	57	11	18	0,15X45°	4	●
XM-653 D5.00 Z4-C	5	6	4,8	57	13	18	0,15X45°	4	●
XM-653 D6.00 Z4-C	6	6	5,7	57	13	20	0,2X45°	4	●
XM-653 D8.00 Z4-C	8	8	7,7	63	19	26	0,25X45°	4	●
XM-653 D10.00 Z4-C	10	10	9,5	72	22	30	0,3X45°	4	●
XM-653 D12.00 Z4-C	12	12	11,5	83	26	36	0,35X45°	4	●
XM-653 D14.00 Z4-C	14	14	13,5	83	26	36	0,4X45°	4	●
XM-653 D16.00 Z4-C	16	16	15,5	92	32	42	0,5X45°	4	●
XM-653 D18.00 Z4-C	18	18	17,5	92	32	42	0,6X45°	4	●
XM-653 D20.00 Z4-C	20	20	19,5	104	38	52	0,6X45°	4	●
XM-653 D25.00 Z4-C	25	25	24	121	45	63	0,75X45°	4	●

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability



Frese MD Z4 elica e passo differenziati. Con attacco cilindrico, disponibili anche con attacco weldon. Solid carbide mills Z4 differentiated helix and pitch. Cylindrical and weldon connection available.

INFORMAZIONI TECNICHE/TECHNICAL INFORMATION

Dati di taglio/Cutting data

MATERIALE MATERIAL	FINITURA IN CONTORNATURA/CONTOURING FINISHING				
	N/mm ²	vc	ap	ae	fz
Acciai basso legati/Low alloy steel	<800	170/210	1,5 x D	0,25 x D	0,006 x D
Acciai medio legati/Medium alloy steel	<1000	150/180	1,5 x D	0,25 x D	0,006 x D
Acciai legati, per utensili/Alloy steel tools	<1300	90/120	1,5 x D	0,20 x D	0,005 x D
Acciai al cromo, inox/SS Cr Steel		50/100	1,5 x D	0,15 x D	0,005 x D
Duplex, leghe titanio, inconel 625		40/60			0,0045 x D
Materiali non ferrosi, alluminio/Aluminium		120/150	1,5 x D	0,03 x D	0,008 x D

FINITURA IN CONTORNATURA

Impegno laterale radiale Ae : mm. 0,03 x D

Aumentare o ridurre Fz per ottenere il grado di finitura richiesto

Contouring finishing

Radial cutting width Ae. : mm. 0,03 x D

Increase decrease the Fz for satisfactory surface quality



XM654

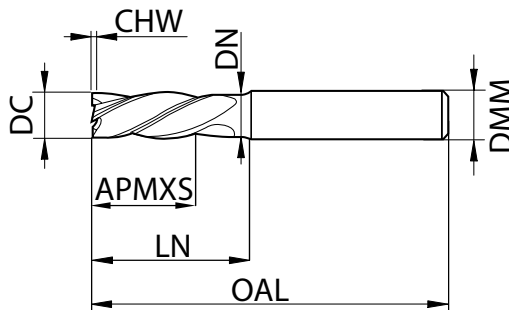


Fresa MD per lavorazioni universali/Solid carbide for general machining

FR27

CODICE CODE	D h10	DMM h6	DN	OAL	APMXS	LN	CHW	Z	
XM-654 D3.00 Z4-WE	3	6	2,8	57	8	15	0,1X45°	4	●
XM-654 D4.00 Z4-WE	4	6	3,8	57	11	18	0,15X45°	4	●
XM-654 D5.00 Z4-WE	5	6	4,8	57	13	18	0,15X45°	4	●
XM-654 D6.00 Z4-WE	6	6	5,7	57	13	20	0,2X45°	4	●
XM-654 D8.00 Z4-WE	8	8	7,7	63	19	26	0,25X45°	4	●
XM-654 D10.00 Z4-WE	10	10	9,5	72	22	30	0,3X45°	4	●
XM-654 D12.00 Z4-WE	12	12	11,5	83	26	36	0,35X45°	4	●
XM-654 D14.00 Z4-WE	14	14	13,5	83	26	36	0,4X45°	4	●
XM-654 D16.00 Z4-WE	16	16	15,5	92	32	42	0,5X45°	4	●
XM-654 D18.00 Z4-WE	18	18	17,5	92	32	42	0,6X45°	4	●
XM-654 D20.00 Z4-WE	20	20	19,5	104	38	52	0,6X45°	4	●
XM-654 D25.00 Z4-WE	25	25	24	121	45	63	0,75X45°	4	●

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability



Frese MD Z4 elica e passo differenziati. Con attacco weldon, disponibili anche con attacco cilindrico. Solid carbide mills Z4 differentiated helix and pitch. Weldon and cylindrical connection available.

INFORMAZIONI TECNICHE/TECHNICAL INFORMATION

Dati di taglio/Cutting data

MATERIALE MATERIAL	FINITURA IN CONTORNATURA/CONTOURING FINISHING				
	N/mm ²	vc	ap	ae	fz
Acciai basso legati/Low alloy steel	<800	170/210	1,5 x D	0,25 x D	0,006 x D
Acciai medio legati/Medium alloy steel	<1000	150/180	1,5 x D	0,25 x D	0,006 x D
Acciai legati, per utensili/Alloy steel tools	<1300	90/120	1,5 x D	0,20 x D	0,005 x D
Acciai al cromo, inox/SS Cr Steel		50/100	1,5 x D	0,15 x D	0,005 x D
Duplex, leghe titanio, inconel 625		40/60			0,0045 x D
Materiali non ferrosi, alluminio/Aluminium		120/150	1,5 x D	0,03 x D	0,008 x D

FINITURA IN CONTORNATURA

Impegno laterale radiale Ae : mm. 0,03 x D

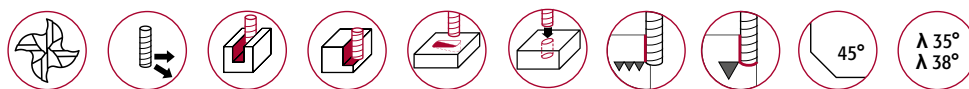
Aumentare o ridurre Fz per ottenere il grado di finitura richiesto

Contouring finishing

Radial cutting width Ae. : mm. 0,03 x D

Increase decrease the Fz for satisfactory surface quality

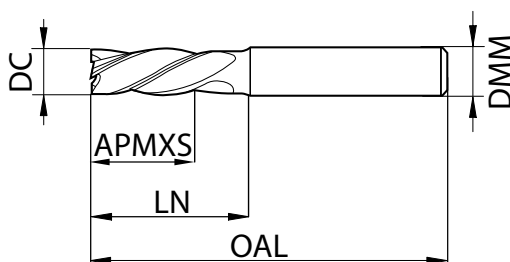
XM871 UNIVERSAL



Fresa MD per lavorazioni trocoidali Z4, gambo con attacco weldon FR27
Solid carbide milling cutter Z4 for trochoidal machining with weldon connection

CODICE CODE	D h10	DMM h6	OAL	APMXS	LN	Z	
XM-871 D6.00 Z4 WE	6	6	65	18	28	4	●
XM-871 D8.00 Z4 WE	8	8	75	24	38	4	●
XM-871 D10.00 Z4 WE	10	10	80	30	38	4	●
XM-871 D12.00 Z4 WE	12	12	93	36	46	4	●
XM-871 D16.00 Z4 WE	16	16	108	48	58	4	●
XM-871 D20.00 Z4 WE	20	20	126	60	74	4	○

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability



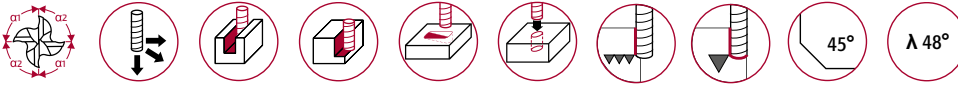
Frese MD Z4 **elica differenziata**. Con angolo smussato per una lavorazione stabile.
Solid carbide mills Z4 differentiated helix angle. Corner protection chamfer and face protection.

INFORMAZIONI TECNICHE/TECHNICAL INFORMATION

Dati di taglio/Cutting data

ISO	Hardness	vc	fz (mm/z) ø							vc	fz (mm/z) ø						
			3	6	8	10	12	16	20		3	6	8	10	12	16	20
P	≤ 850 N/MM2	340	0,036	0,072	0,096	0,138	0,17	0,22	0,28	360	0,017	0,034	0,046	0,066	0,08	0,11	0,13
	≥ 850 N/MM2	250	0,031	0,062	0,083	0,115	0,14	0,18	0,23		270	0,015	0,030	0,040	0,055	0,07	0,09
K	≤ 240 HB	300	0,038	0,076	0,101	0,150	0,18	0,24	0,30	320	0,018	0,036	0,048	0,072	0,09	0,11	0,14
	≥ 240 HB	260	0,035	0,069	0,092	0,127	0,15	0,20	0,25		280	0,017	0,033	0,044	0,061	0,07	0,10

XM761 STAINLESS SPEED

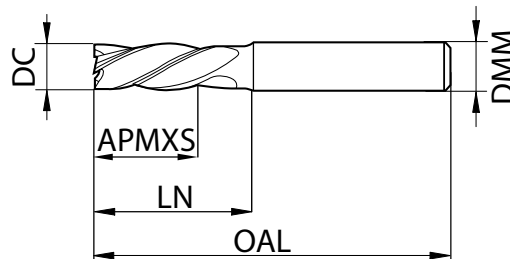


Fresa MD per lavorazioni trocoidali Z4 con elica e passo differenziato, gambo con attacco weldon
Solid carbide milling cutter Z4 for trochoidal machining with weldon connection

FR27

CODICE CODE	D h10	DMM h6	OAL	APMXS	LN	Z	
XM-761 D3.00 Z4 WE	3	6	57	12	14,9	4	●
XM-761 D4.00 Z4 WE	4	6	65	16	18,9	4	●
XM-761 D5.00 Z4 WE	5	6	65	20	22,9	4	●
XM-761 D6.00 Z4 WE	6	6	65	24	29,0	4	●
XM-761 D8.00 Z4 WE	8	8	75	32	39,0	4	●
XM-761 D10.00 Z4 WE	10	10	90	40	50,0	4	●
XM-761 D12.00 Z4 WE	12	12	100	46	55,0	4	●
XM-761 D16.00 Z4 WE	16	16	108	55	60,0	4	○
XM-761 D20.00 Z4 WE	20	20	126	65	76,0	4	●

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability



Frese MD Z4 **passo differenziato**. Con vani evacuazione truciolo profondi per maggiore asportazione, angolo smussato per una lavorazione stabile, rompi truciolo aggiuntivo lungo filo tagliente e ampia varietà di materiali.
Solid carbide mills Z4 differentiated helix pitch. Deepened flute on front cutting edge area for improved chip evacuation, corner protection chamfer and face protection, extra length's chip breakers in the cutting edges ensure short chips for secure evacuation and wide variety of materials.

INFORMAZIONI TECNICHE/TECHNICAL INFORMATION

Dati di taglio/Cutting data

ISO	Hardness	vc	fz (mm/z) ø							vc	fz (mm/z) ø						
			3	6	8	10	12	16	20		3	6	8	10	12	16	20
M	≤ 750 N/MM2	220	0,031	0,062	0,083	0,115	0,14	0,18	0,23	240	0,015	0,030	0,040	0,055	0,07	0,09	0,11
	≥ 750 N/MM2	110	0,024	0,048	0,064	0,092	0,11	0,15	0,18		120	0,011	0,021	0,028	0,040	0,05	0,06
S	Ni-based	60	0,019	0,039	0,052	0,074	0,09	0,12	0,15	60	0,008	0,017	0,022	0,032	0,04	0,05	0,06
	Ti-based	110	0,028	0,055	0,074	0,104	0,12	0,17	0,21	120	0,013	0,026	0,035	0,050	0,06	0,08	0,10

XM632

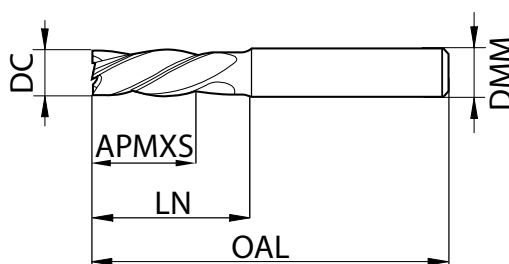


Fresa MD per lavorazioni trocoidali Z6, gambo con attacco weldon
Solid carbide milling cutter Z6 for trochoidal machining with weldon connection

FR27

CODICE CODE	D h10	DMM h6	OAL	APMXS	LN	Z	
XM-632 D8.00 Z6 WE	8	8	63	19	26	6	●
XM-632 D10.00 Z6 WE	10	10	72	22	30	6	●
XM-632 D12.00 Z6 WE	12	12	83	26	36	6	●
XM-632 D16.00 Z6 WE	16	16	92	32	42	6	○
XM-632 D20.00 Z6 WE	20	20	104	38	52	6	○
XM-632 D25.00 Z6 WE	25	25	121	45	63	6	●

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability



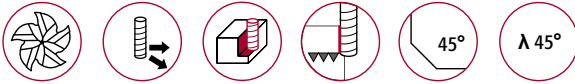
Frese MD Z6 **elica differenziata**. Con angolo smussato per una lavorazione stabile e ampia varietà di materiali.
Solid carbide mills Z6 differentiated helix angle. Corner protection chamfer and face protection and wide variety of materials.

INFORMAZIONI TECNICHE/TECHNICAL INFORMATION

Dati di taglio/Cutting data

ISO	Hardness	vc	fz (mm/z) ø							vc	fz (mm/z) ø						
			ap = l2		Sgros.	Finit.	ae max. = 0,10 x D	ap = l2			ae max.= 0,02 x D						
			3	6				3	6								
P	≤ 850 N/MM2	340	0,036	0,072	0,096	0,138	0,17	0,22	0,28	360	0,017	0,034	0,046	0,066	0,08	0,11	0,13
	≥ 850 N/MM2	250	0,031	0,062	0,083	0,115	0,14	0,18	0,23	270	0,015	0,030	0,040	0,055	0,07	0,09	0,11
M	≤ 750 N/MM2	220	0,031	0,062	0,083	0,115	0,14	0,18	0,23	240	0,015	0,030	0,040	0,055	0,07	0,09	0,11
	≥ 750 N/MM2	110	0,024	0,048	0,064	0,092	0,11	0,15	0,18	120	0,011	0,021	0,028	0,040	0,05	0,06	0,08
S	Ni-based	60	0,019	0,039	0,052	0,074	0,09	0,12	0,15	60	0,008	0,017	0,022	0,032	0,04	0,05	0,06
	Ti-based	110	0,028	0,055	0,074	0,104	0,12	0,17	0,21	120	0,013	0,026	0,035	0,050	0,06	0,08	0,10
K	≤ 240 HB	300	0,038	0,076	0,101	0,150	0,18	0,24	0,30	320	0,018	0,036	0,048	0,072	0,09	0,11	0,14
	≥ 240 HB	260	0,035	0,069	0,092	0,127	0,15	0,20	0,25	280	0,017	0,033	0,044	0,061	0,07	0,10	0,12
N	≤ 7 % Si	900	0,045	0,090	0,120	0,184	0,22	0,29	0,37	1000	0,021	0,043	0,057	0,088	0,11	0,14	0,18
	≥ 7 % Si	430	0,038	0,076	0,101	0,138	0,17	0,22	0,28	460	0,018	0,036	0,048	0,066	0,08	0,11	0,13

XM898

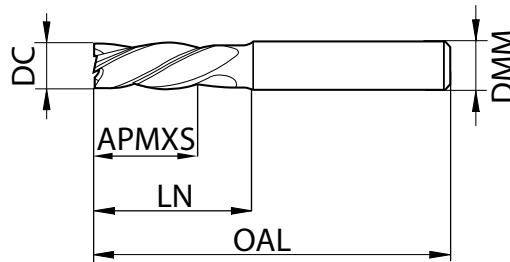


Fresa MD per lavorazioni trocoidali Z5, gambo con attacco weldon
Solid carbide milling cutter Z5 for trochoidal machining with weldon connection

FR27

CODICE CODE	D h10	DMM h6	OAL	APMXS	LN	Z	
XM-898 D4.00 Z5 WE	4	6	65	12	26	5	●
XM-898 D5.00 Z5 WE	5	6	65	15	26	5	●
XM-898 D6.00 Z5 WE	6	6	65	18	28	5	●
XM-898 D8.00 Z5 WE	8	8	75	24	38	5	●
XM-898 D10.00 Z5 WE	10	10	80	30	38	5	●
XM-898 D12.00 Z5 WE	12	12	93	36	46	5	●
XM-898 D16.00 Z5 WE	16	16	108	48	58	5	●
XM-898 D20.00 Z5 WE	20	20	126	60	74	5	●

● Stock Italia/Warehouse in Italy ○ A Richiesta/On request ★ Stock estero/Warehouse abroad ☆ Disponibilità limitata/Limited availability



Frese MD Z5 con angolo smussato per una lavorazione stabile e ampia varietà di materiali.
Solid carbide mills Z5 with corner protection chamfer and face protection, wide variety of materials.

INFORMAZIONI TECNICHE/TECHNICAL INFORMATION

Dati di taglio/Cutting data

ISO	Hardness	vc	fz (mm/z) ø							vc	fz (mm/z) ø						
			3	6	8	10	12	16	20		3	6	8	10	12	16	20
P	≤ 850 N/MM2	340	0,036	0,072	0,096	0,138	0,17	0,22	0,28	360	0,017	0,034	0,046	0,066	0,08	0,11	0,13
	≥ 850 N/MM2	250	0,031	0,062	0,083	0,115	0,14	0,18	0,23	270	0,015	0,030	0,040	0,055	0,07	0,09	0,11
M	≤ 750 N/MM2	220	0,031	0,062	0,083	0,115	0,14	0,18	0,23	240	0,015	0,030	0,040	0,055	0,07	0,09	0,11
	≥ 750 N/MM2	110	0,024	0,048	0,064	0,092	0,11	0,15	0,18	120	0,011	0,021	0,028	0,040	0,05	0,06	0,08
S	Ni-based	60	0,019	0,039	0,052	0,074	0,09	0,12	0,15	60	0,008	0,017	0,022	0,032	0,04	0,05	0,06
	Ti-based	110	0,028	0,055	0,074	0,104	0,12	0,17	0,21	120	0,013	0,026	0,035	0,050	0,06	0,08	0,10
K	≤ 240 HB	300	0,038	0,076	0,101	0,150	0,18	0,24	0,30	320	0,018	0,036	0,048	0,072	0,09	0,11	0,14
	≥ 240 HB	260	0,035	0,069	0,092	0,127	0,15	0,20	0,25	280	0,017	0,033	0,044	0,061	0,07	0,10	0,12
N	≤ 7 % Si	900	0,045	0,090	0,120	0,184	0,22	0,29	0,37	1000	0,021	0,043	0,057	0,088	0,11	0,14	0,18
	≥ 7 % Si	430	0,038	0,076	0,101	0,138	0,17	0,22	0,28	460	0,018	0,036	0,048	0,066	0,08	0,11	0,13



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