



# Altre Frese Other Mills

## 005F

Fresa a "T"  
a sgrossare  
Roughing  
T-slot mill

→ 278



## 105T

Fresa a  
"T" a finire  
Finishing  
T-slot mill

→ 278



## 1W5

Fresa  
Woodruff  
Woodruff  
mill

→ 279



## 10C

Fresa  
ad angolo  
convergente  
Dovetail  
mill with  
convergent  
taper angle

→ 279



## 10D

Fresa  
ad angolo  
divergente  
Dovetail  
mill with  
divergent  
taper angle

→ 280



## 10G

Fresa  
a quarto  
di cerchio  
Quarter  
circle mill

→ 280



## SIL SERVICE

L'esperienza Silmax dimostra che  
un utensile correttamente affilato  
ha un rendimento uguale a quello nuovo.

Silmax experience shows that  
a properly sharpened tool grants  
the same performances of a new tool.



Riaffilatura e  
rigenerazione  
Resharpening  
and Reconditioning



Esecuzione  
perfetta  
Perfect  
Execution



Rivestimento  
PVD  
PVD Coating



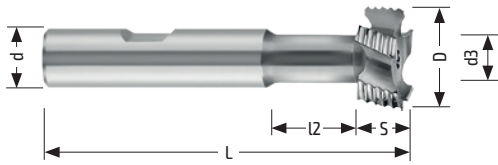
Trattamento  
4S  
4S Treatment



Consegna  
rapida  
Fast Delivery

## 005F

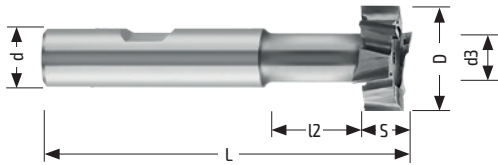
Fresa a "T" a sgrossare  
Roughing T-slot mill



D k12	S d11	L h6	d	d3	L2	Z	Non rivestito Uncoated	Balinit® Alcrona
12,5	6,0	57	10	5	7	4	SIL005F12	NIG005F12
16,0	8,0	62	10	7	10	5	SIL005F16	NIG005F16
18,0	8,0	70	12	8	13	5	SIL005F18	NIG005F18
21,0	9,0	74	12	10	16	5	SIL005F21	NIG005F21
22,0	10,0	82	16	10	16	5	SIL005F22	NIG005F22
25,0	11,0	82	16	12	17	5	SIL005F25	NIG005F25
30,0	12,0	90	16	14	22	6	SIL005F30	NIG005F30
32,0	14,0	90	16	15	22	6	SIL005F32	NIG005F32
36,0	16,0	108	25	17	27	6	SIL005F36	NIG005F36
40,0	18,0	108	25	19	27	8	SIL005F40	NIG005F40

## 105T

Fresa a "T" a finire  
Finishing T-slot mill



D d11	S d11	L	d h6	d3	L2	Z	Non rivestito Uncoated	Balinit® Alcrona
12,5	6,0	57	10	5	7	6	SIL105T12	NIG105T12
16,0	8,0	62	10	7	10	6	SIL105T16	NIG105T16
18,0	8,0	70	12	8	13	6	SIL105T18	NIG105T18
19,0	9,0	70	12	8	13	6	SIL105T19	NIG105T19
21,0	9,0	74	12	10	16	6	SIL105T21	NIG105T21
22,0	10,0	74	12	10	16	6	SIL105T22	NIG105T22
25,0	11,0	82	16	12	17	6	SIL105T25	NIG105T25
28,0	12,0	85	16	13	20	6	SIL105T28	NIG105T28
32,0	14,0	90	16	15	22	8	SIL105T32	NIG105T32

1  
Acciaio  
Steel

2  
Ghise  
Cast  
Iron

3  
Acciai  
Temprati  
Hardened  
Steel

4  
Acciaio  
Inox  
Stainless  
Steel

5  
Titanio  
Titanium

6  
Leghe  
Leggere  
Light  
Alloys

7  
PH  
Duplex

8  
Superleghe  
Superalloys

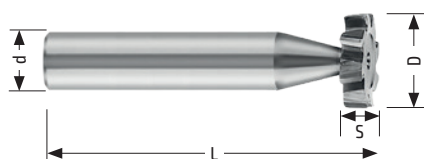
9  
Compositi  
Composite  
Materials

→ 16  
Guida alla  
lettura  
Reading  
guide

→ 18  
Legenda  
Legend

# 1W5

Fresa Woodruff  
Woodruff mill



HSSE

DIN  
8508

$\lambda$  10°  
 $\gamma$  10°



221

PM

Frese in Acciaio Sinterizzato  
Powder Metal End Mills

231

SGR

Frese a Sgrossare in HSSCo8  
Roughing End Mills in HSSCo8

D h12	S e8	L h8	d	Z	Non rivestito Uncoated
10,5	2,0	50	6	6	SIL1W5102
10,5	2,5	50	6	6	SIL1W5125
10,5	3,0	50	6	6	SIL1W5103
13,5	2,0	56	10	8	SIL1W5132
13,5	3,0	56	10	8	SIL1W5133
13,5	4,0	56	10	8	SIL1W5134
16,5	3,0	56	10	8	SIL1W5163
16,5	4,0	56	10	8	SIL1W5164
16,5	5,0	56	10	8	SIL1W5165
16,5	6,0	56	10	8	SIL1W5166
19,5	3,0	56	10	8	SIL1W5193
19,5	4,0	56	10	8	SIL1W5194
19,5	5,0	56	10	8	SIL1W5195
19,5	6,0	56	10	8	SIL1W5196
22,5	4,0	56	10	8	SIL1W5224
22,5	5,0	56	10	8	SIL1W5225
22,5	6,0	56	10	8	SIL1W5226
22,5	8,0	56	10	8	SIL1W5228
25,5	5,0	56	10	8	SIL1W5255
25,5	6,0	56	10	8	SIL1W5256
25,5	7,0	56	10	8	SIL1W5257
25,5	8,0	56	10	8	SIL1W5258

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FIN

Frese a Finiture in HSSCo8  
Finishing End Mills in HSSCo8

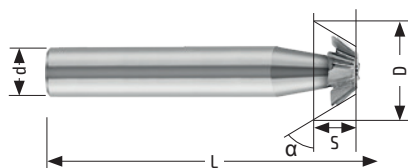
267

FRF

Frese Frontali e a Disco  
Shell End Mills and Side Milling Cutters

# 10C

Fresa ad angolo convergente  
Dovetail mill with convergent taper angle



HSSE

DIN  
18338

$\lambda$  0°  
 $\gamma$  0°



$\alpha$ +/-30°	D js16	S js14	L	d h8	Z	Non rivestito Uncoated
45°	16,0	4,0	60	12	8	SIL10C164
45°	20,0	5,0	63	12	8	SIL10C204
45°	25,0	6,3	67	16	10	SIL10C254
60°	16,0	6,3	60	12	8	SIL10C166
60°	20,0	8,0	63	12	8	SIL10C206
60°	25,0	10,0	67	16	10	SIL10C256
70°	16,0	7,0	60	12	8	SIL10C167
70°	20,0	9,0	63	12	8	SIL10C207
70°	25,0	11,0	67	16	10	SIL10C257

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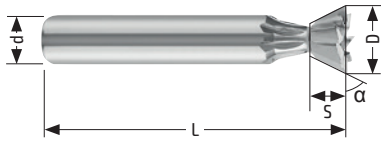
ALT

Altre Frese  
Other mills



## 10D

Fresa ad angolo divergente  
Dovetail mill with divergent taper angle



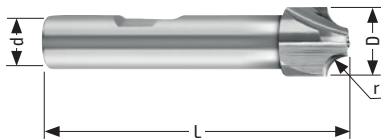
HSSE

DIN  
1833B $\lambda 0^\circ$   
 $\gamma 0^\circ$ 

$\alpha$ +/-30'	D js16	S js14	L	d h8	Z	Non rivestito Uncoated
45°	16,0	4,0	60	12	8	SIL10D164
45°	20,0	5,0	63	12	8	SIL10D204
45°	25,0	6,3	67	16	10	SIL10D254
60°	16,0	6,3	60	12	8	SIL10D166
60°	20,0	8,0	63	12	8	SIL10D206
60°	25,0	10,0	67	16	10	SIL10D256
70°	16,0	7,0	60	12	8	SIL10D167
70°	20,0	9,0	63	12	8	SIL10D207
70°	25,0	11,0	67	16	10	SIL10D257

## 10G

Fresa a quarto di cerchio  
Quarter circle mill



HSSE

DIN  
6518B $\lambda 0^\circ$   
 $\gamma 6^\circ$ 

r H11	D	L	d h6	Z	Non rivestito Uncoated	Balinit® Alcrona
1,0	8,0	60	10	4	SIL10G101	NIG10G101
1,5	9,0	60	10	4	SIL10G115	NIG10G115
2,0	10,0	60	10	4	SIL10G102	NIG10G102
2,5	11,0	60	12	4	SIL10G125	NIG10G125
3,0	12,0	60	12	4	SIL10G103	NIG10G103
3,5	14,0	60	12	4	SIL10G135	NIG10G135
4,0	14,0	60	12	4	SIL10G104	NIG10G104
4,5	16,0	60	12	4	SIL10G145	NIG10G145
5,0	16,0	60	16	4	SIL10G205	NIG10G205
5,5	20,0	67	16	4	SIL10G255	NIG10G255
6,0	20,0	67	16	4	SIL10G206	NIG10G206
6,5	24,0	71	16	4	SIL10G265	NIG10G265
7,0	24,0	71	16	4	SIL10G207	NIG10G207
7,5	24,0	71	16	4	SIL10G275	NIG10G275
8,0	24,0	71	16	4	SIL10G208	NIG10G208
8,5	28,0	85	20	4	SIL10G385	NIG10G385
9,0	28,0	85	20	4	SIL10G309	NIG10G309
9,5	28,0	85	20	4	SIL10G395	NIG10G395
10,0	28,0	85	20	4	SIL10G310	NIG10G310
11,0	32,0	90	20	4	SIL10G311	NIG10G311
12,0	34,0	90	20	4	SIL10G312	NIG10G312
14,0	44,0	100	20	6	SIL10G414	NIG10G414
15,0	46,0	100	20	6	SIL10G415	NIG10G415
16,0	48,0	100	20	6	SIL10G516	NIG10G516
18,0	52,0	112	20	6	SIL10G618	NIG10G618
20,0	58,0	112	20	6	SIL10G620	NIG10G620

005F/105T/1W5/10C/10D/10G

Parametri di lavoro / Working Parameters

m/min →		Vc=30-35	Vc=25-30	Vc=20-25	Vc=15-20	Vc=15-20	Vc=45-50	Vc=60-80
D [mm] ↓		Acciaio / Steel ≤ 800 N/mm <sup>2</sup>	Acciaio / Steel ≤ 1000 N/mm <sup>2</sup>	Acciaio / Steel ≤ 1300 N/mm <sup>2</sup>	Acciaio inossidabile Stainless Steel	Titanio Titanium	Rame e leghe Copper & Alloys	Alluminio e leghe Aluminum & Alloys
fz [mm]	8	0,005	0,005	0,005	0,005	0,005	0,005	0,005
	10	0,010	0,010	0,010	0,010	0,010	0,010	0,010
	12	0,015	0,015	0,015	0,015	0,015	0,015	0,015
	16	0,025	0,025	0,025	0,025	0,025	0,025	0,025
	18	0,030	0,030	0,030	0,030	0,030	0,030	0,030
	20	0,035	0,035	0,035	0,035	0,035	0,035	0,035
	22	0,040	0,040	0,040	0,040	0,040	0,040	0,040
	25	0,045	0,045	0,045	0,045	0,045	0,045	0,045
	28	0,050	0,050	0,050	0,050	0,050	0,050	0,050
	30	0,055	0,055	0,055	0,055	0,055	0,055	0,055
	32	0,060	0,060	0,060	0,060	0,060	0,060	0,060
	36	0,065	0,065	0,065	0,065	0,065	0,065	0,065
	40	0,070	0,070	0,070	0,070	0,070	0,070	0,070
	44	0,075	0,075	0,075	0,075	0,075	0,075	0,075
	48	0,080	0,080	0,080	0,080	0,080	0,080	0,080
	58	0,090	0,090	0,090	0,090	0,090	0,090	0,090

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PM

Frese in Acciaio Sinterizzato  
Powder Metal End Mills

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SGR

Frese a Sgrossare in HSSCo8  
Roughing End Mills in HSSCo8

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FIN

Frese a Finitre in HSSCo8  
Finishing End Mills in HSSCo8

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FRF

Frese Frontali e a Disco  
Shell End Mills and Side Milling Cutters

277



ALT

Altre Frese  
Other mills

1  
Acciaio  
Steel

2  
Ghise  
Cast  
Iron

3  
Acciai  
Temprati  
Hardened  
Steel

4  
Acciaio  
Inox  
Stainless  
Steel

5  
Titanio  
Titanium

6  
Leghe  
Leggere  
Light  
Alloys

7  
PH  
Duplex

8  
Superleghe  
Superalloys

9  
Compositi  
Composite  
Materials

→ 16  
Guida alla  
lettura  
Reading  
guide

→ 18  
Legenda  
Legend

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