

Frese a Finire in HSSCo8

Finishing End Mills in HSSCo8

731

Frese a finire serie corta

Finishing end mill, short version

→ 244

735

Frese a finire serie corta

Finishing end mill, short version

→ 245

730

Frese a finire serie corta

Finishing end mill, short version

→ 246

108

Frese a finire serie corta

Finishing end mill, short version

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138

Frese a finire serie corta

Finishing end mill, short version

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171

Frese a finire serie normale

Finishing end mill, regular version

→ 249

173

Frese a finire serie normale

Finishing end mill, regular version

→ 250

111

Frese a finire serie normale

Finishing end mill, regular version

→ 251

115

Frese a finire serie normale

Finishing end mill, regular version

→ 252

113

Frese a finire serie normale

Finishing end mill, regular version

→ 253

113R

Frese a finire serie normale

Finishing end mill, regular version

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118

Frese a finire serie normale

Finishing end mill, regular version

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738

Frese semisferica a finire serie corta

Ball nose finishing end mill, short version

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Frese semisferica a finire serie normale

Ball nose finishing end mill, regular version

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131

Frese semisferica a finire serie normale

Ball nose finishing end mill, regular version

→ 256

121

Frese a finire serie media

Finishing end mill, medium version

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193

Frese a finire serie media

Finishing end mill, medium version

→ 257

1712

Frese a finire serie lunga

Finishing end mill, long version

→ 258

174

Frese a finire serie lunga

Finishing end mill, long version

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128

Frese a finire serie lunga

Finishing end mill, long version

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125

Frese a finire serie lunga

Finishing end mill, long version

→ 259

123

Frese a finire serie lunga

Finishing end mill, long version

→ 260

145

Frese a finire serie extra lunga

Finishing end mill, extra long version

→ 261

146

Frese a finire serie extra lunga

Finishing end mill, extra long version

→ 261

148

Frese a finire serie extra lunga

Finishing end mill, extra long version

→ 262

750

Frese a finire serie corta

Finishing end mill, short version

→ 262

152

Frese a finire serie normale

Finishing end mill, regular version

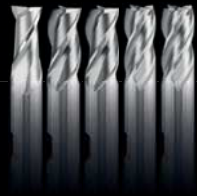
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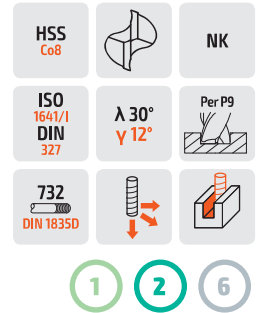
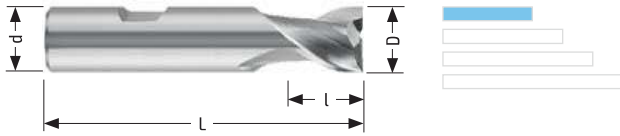
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Frese a finire serie lunga

Finishing end mill, long version

→ 263

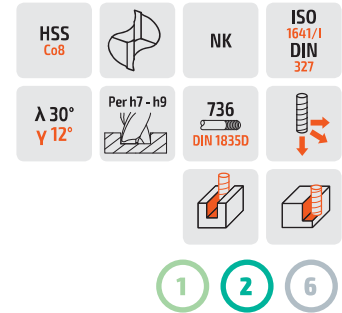
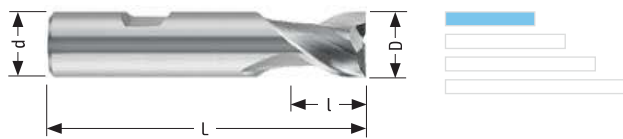


731Fresa a finire serie corta
Finishing end mill, short version

D e8	d h6	L	l	Z	Non rivestito Uncoated	Balinit® Alcrona
1,5	6	49	4,0	2	VAN731015	NIG731015
2,0	6	49	4,0	2	VAN731020	NIG731020
2,5	6	49	5,0	2	VAN731025	NIG731025
3,0	6	49	5,0	2	VAN731030	NIG731030
3,5	6	51	7,0	2	VAN731035	NIG731035
4,0	6	51	7,0	2	VAN731040	NIG731040
4,5	6	51	7,0	2	VAN731045	NIG731045
5,0	6	52	8,0	2	VAN731050	NIG731050
5,5	6	52	8,0	2	VAN731055	NIG731055
6,0	6	52	8,0	2	VAN731060	NIG731060
6,5	10	60	10,0	2	VAN731065	NIG731065
7,0	10	60	10,0	2	VAN731070	NIG731070
7,5	10	61	11,0	2	VAN731075	NIG731075
8,0	10	61	11,0	2	VAN731080	NIG731080
8,5	10	61	11,0	2	VAN731085	NIG731085
9,0	10	61	11,0	2	VAN731090	NIG731090
9,5	10	63	13,0	2	VAN731095	NIG731095
10,0	10	63	13,0	2	VAN731100	NIG731100
10,5	12	70	13,0	2	VAN731105	NIG731105
11,0	12	70	13,0	2	VAN731110	NIG731110
11,5	12	73	16,0	2	VAN731115	NIG731115
12,0	12	73	16,0	2	VAN731120	NIG731120
12,5	12	73	16,0	2	VAN731125	NIG731125
13,0	12	73	16,0	2	VAN731130	NIG731130
13,5	12	73	16,0	2	VAN731135	NIG731135
14,0	12	73	16,0	2	VAN731140	NIG731140
14,5	12	73	16,0	2	VAN731145	NIG731145
15,0	12	73	16,0	2	VAN731150	NIG731150
16,0	16	79	19,0	2	VAN731160	NIG731160
17,0	16	79	19,0	2	VAN731170	NIG731170
18,0	16	79	19,0	2	VAN731180	NIG731180
19,0	16	79	19,0	2	VAN731190	NIG731190
20,0	20	88	22,0	2	VAN731200	NIG731200
22,0	20	88	22,0	2	VAN731220	NIG731220
25,0	25	102	26,0	2	VAN731250	NIG731250
28,0	25	102	26,0	2	VAN731280	NIG731280
30,0	25	102	26,0	2	VAN731300	NIG731300
32,0	32	112	32,0	2	VAN731320	NIG731320
36,0	32	112	32,0	2	VAN731360	NIG731360
40,0	40	130	38,0	2	VAN731400	NIG731400

735

Fresa a finire serie corta
Finishing end mill, short version



D	d h6	L	l	Z	Non rivestito Uncoated	Balinit® Alcrona
1,5	6	49	4,0	2	VAN735015	NIG735015
2,0	6	49	4,0	2	VAN735020	NIG735020
2,5	6	49	5,0	2	VAN735025	NIG735025
3,0	6	49	5,0	2	VAN735030	NIG735030
3,5	6	51	7,0	2	VAN735035	NIG735035
4,0	6	51	7,0	2	VAN735040	NIG735040
4,5	6	51	7,0	2	VAN735045	NIG735045
5,0	6	52	8,0	2	VAN735050	NIG735050
5,5	6	52	8,0	2	VAN735055	NIG735055
6,0	6	52	8,0	2	VAN735060	NIG735060
6,5	10	60	10,0	2	VAN735065	NIG735065
7,0	10	60	10,0	2	VAN735070	NIG735070
7,5	10	61	11,0	2	VAN735075	NIG735075
8,0	10	61	11,0	2	VAN735080	NIG735080
8,5	10	61	11,0	2	VAN735085	NIG735085
9,0	10	61	11,0	2	VAN735090	NIG735090
9,5	10	63	13,0	2	VAN735095	NIG735095
10,0	10	63	13,0	2	VAN735100	NIG735100
11,0	12	70	13,0	2	VAN735110	NIG735110
12,0	12	73	16,0	2	VAN735120	NIG735120
13,0	12	73	16,0	2	VAN735130	NIG735130
14,0	12	73	16,0	2	VAN735140	NIG735140
15,0	12	73	16,0	2	VAN735150	NIG735150
16,0	16	79	19,0	2	VAN735160	NIG735160
17,0	16	79	19,0	2	VAN735170	NIG735170
18,0	16	79	19,0	2	VAN735180	NIG735180
19,0	16	79	19,0	2	VAN735190	NIG735190
20,0	20	88	22,0	2	VAN735200	NIG735200

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PM

Frese in Acciaio Sinterizzato
Powder Metal End Mills

231

SGR

Frese a Sgrossare in HSSCo8
Roughing End Mills in HSSCo8

243

FIN

Frese a Finire in HSSCo8
Finishing End Mills in HSSCo8

267

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

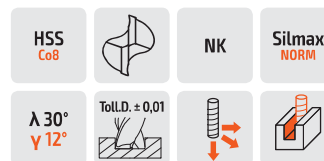
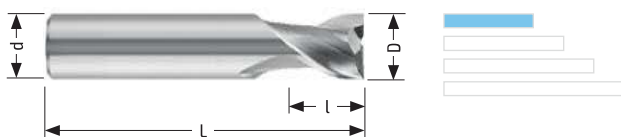
7 PH
Duplex

8 Superleghe
Superalloys

9 Compositi
Composite
Materials

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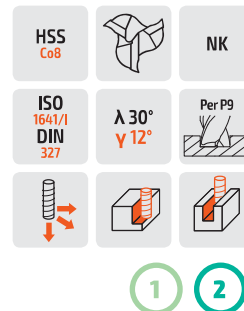
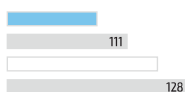
730Fresa a finire serie corta
Finishing end mill, short version

D ±0.01	d h6	L	l	Z	Non rivestito Uncoated	Balinit® Alcrona
0,5	3	37	1,5	2	VAN730005	NIG730005
0,6	3	37	1,5	2	VAN730006	NIG730006
0,7	4	37	2,0	2	VAN730007	NIG730007
0,8	4	37	2,0	2	VAN730008	NIG730008
0,9	4	37	2,5	2	VAN730009	NIG730009
1,0	4	37	3,0	2	VAN730010	NIG730010
1,2	4	37	4,0	2	VAN730012	NIG730012
1,4	4	37	4,0	2	VAN730014	NIG730014
1,5	4	37	4,0	2	VAN730015	NIG730015
1,6	4	37	4,0	2	VAN730016	NIG730016
1,7	4	37	5,0	2	VAN730017	NIG730017
1,8	4	37	5,0	2	VAN730018	NIG730018
2,0	4	37	5,0	2	VAN730020	NIG730020
2,5	4	40	7,0	2	VAN730025	NIG730025
3,0	5	44	8,0	2	VAN730030	NIG730030
3,5	5	44	10,0	2	VAN730035	NIG730035
4,0	6	51	12,0	2	VAN730040	NIG730040
4,5	6	51	12,0	2	VAN730045	NIG730045
5,0	6	52	14,0	2	VAN730050	NIG730050
5,5	6	52	14,0	2	VAN730055	NIG730055

Notes

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Fresa a finire serie corta
Finishing end mill, short version



D e8	d h6	L	l	Z	Non rivestito Uncoated	Balinit® Alcrona
1,0	6	49	4,0	3	SIL108010	NIG108010
1,5	6	49	4,0	3	SIL108015	NIG108015
2,0	6	49	4,0	3	SIL108020	NIG108020
2,5	6	49	5,0	3	SIL108025	NIG108025
3,0	6	49	5,0	3	SIL108030	NIG108030
3,5	6	51	7,0	3	SIL108035	NIG108035
3,8	6	51	7,0	3	SIL108038	NIG108038
4,0	6	51	7,0	3	SIL108040	NIG108040
4,5	6	51	7,0	3	SIL108045	NIG108045
4,8	6	52	8,0	3	SIL108048	NIG108048
5,0	6	52	8,0	3	SIL108050	NIG108050
5,5	6	52	8,0	3	SIL108055	NIG108055
6,0	6	52	8,0	3	SIL108060	NIG108060
6,5	10	60	10,0	3	SIL108065	NIG108065
7,0	10	60	10,0	3	SIL108070	NIG108070
7,5	10	61	11,0	3	SIL108075	NIG108075
8,0	10	61	11,0	3	SIL108080	NIG108080
8,5	10	61	11,0	3	SIL108085	NIG108085
9,0	10	61	11,0	3	SIL108090	NIG108090
9,5	10	63	13,0	3	SIL108095	NIG108095
10,0	10	63	13,0	3	SIL108100	NIG108100
11,0	12	70	13,0	3	SIL108110	NIG108110
12,0	12	73	16,0	3	SIL108120	NIG108120
13,0	12	73	16,0	3	SIL108130	NIG108130
14,0	12	73	16,0	3	SIL108140	NIG108140
15,0	12	73	16,0	3	SIL108150	NIG108150
16,0	16	79	19,0	3	SIL108160	NIG108160
17,0	16	79	19,0	3	SIL108170	NIG108170
18,0	16	79	19,0	3	SIL108180	NIG108180
19,0	16	79	19,0	3	SIL108190	NIG108190
20,0	20	88	22,0	3	SIL108200	NIG108200

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PM

Frese in Acciaio Sinterizzato
Powder Metal End Mills

231

SGR

Frese a Sgrossare in HSSCo8
Roughing End Mills in HSSCo8

243

FIN

Frese a Finire in HSSCo8
Finishing End Mills in HSSCo8

267

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

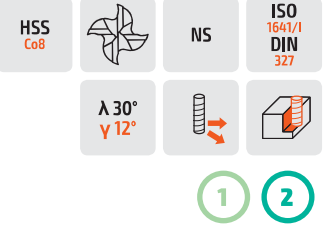
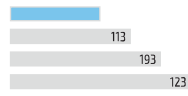
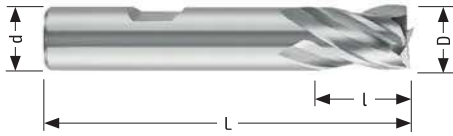
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Duplex

8 Superleghe
Superalloys

9 Compositi
Composite Materials

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138Fresa a finire serie corta
Finishing end mill, short version

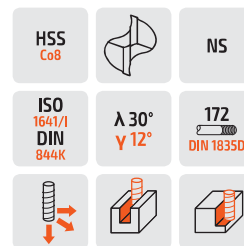
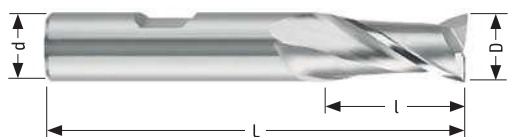
90°

D k10	d h6	L	l	Z	Non rivestito Uncoated	Balinit® Alcrona
5,0	6	52	8,0	4	SIL138005	NIG138005
6,0	6	52	8,0	4	SIL138006	NIG138006
7,0	10	60	10,0	4	SIL138007	NIG138007
8,0	10	61	11,0	4	SIL138008	NIG138008
9,0	10	61	11,0	4	SIL138009	NIG138009
10,0	10	63	13,0	4	SIL138010	NIG138010
11,0	12	70	13,0	4	SIL138011	NIG138011
12,0	12	73	16,0	4	SIL138012	NIG138012
13,0	12	73	16,0	4	SIL138013	NIG138013
14,0	12	73	16,0	4	SIL138014	NIG138014
15,0	12	73	16,0	4	SIL138015	NIG138015
16,0	16	79	19,0	4	SIL138016	NIG138016
17,0	16	79	19,0	4	SIL138017	NIG138017
18,0	16	79	19,0	4	SIL138018	NIG138018
19,0	16	79	19,0	4	SIL138019	NIG138019
20,0	20	88	22,0	4	SIL138020	NIG138020
22,0	20	88	22,0	4	SIL138022	NIG138022
25,0	25	102	26,0	4	SIL138025	NIG138025
28,0	25	102	26,0	6	SIL138028	NIG138028
30,0	25	102	26,0	6	SIL138030	NIG138030
32,0	32	113	32,0	6	SIL138032	NIG138032

Notes

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Fresa a finire serie normale
Finishing end mill, regular version



90°

D k10	d h6	L	l	Z	Non rivestito Uncoated	Balinit® Alcrona
1,5	6	52	7,0	2	SIL1710015	NIG1710015
2,0	6	52	7,0	2	SIL1710020	NIG1710020
2,5	6	52	8,0	2	SIL1710025	NIG1710025
3,0	6	52	8,0	2	SIL171003	NIG171003
3,5	6	54	10,0	2	SIL1710035	NIG1710035
4,0	6	55	11,0	2	SIL171004	NIG171004
4,5	6	55	11,0	2	SIL1710045	NIG1710045
5,0	6	57	13,0	2	SIL171005	NIG171005
5,5	6	57	13,0	2	SIL1710055	NIG1710055
6,0	6	57	13,0	2	SIL171006	NIG171006
7,0	10	66	16,0	2	SIL171007	NIG171007
8,0	10	69	19,0	2	SIL171008	NIG171008
9,0	10	69	19,0	2	SIL171009	NIG171009
10,0	10	72	22,0	2	SIL171010	NIG171010
11,0	12	79	22,0	2	SIL171011	NIG171011
12,0	12	83	26,0	2	SIL171012	NIG171012
13,0	12	83	26,0	2	SIL171013	NIG171013
14,0	12	83	26,0	2	SIL171014	NIG171014
15,0	12	83	26,0	2	SIL171015	NIG171015
16,0	16	92	32,0	2	SIL171016	NIG171016
17,0	16	92	32,0	2	SIL171017	NIG171017
18,0	16	92	32,0	2	SIL171018	NIG171018
19,0	16	92	32,0	2	SIL171019	NIG171019
20,0	20	104	38,0	2	SIL171020	NIG171020
22,0	20	104	38,0	2	SIL171022	NIG171022
25,0	25	121	45,0	2	SIL171025	NIG171025
28,0	25	121	45,0	2	SIL171028	NIG171028
30,0	25	121	45,0	2	SIL171030	NIG171030
32,0	32	133	53,0	2	SIL171032	NIG171032
36,0	32	133	53,0	2	SIL171036	NIG171036
40,0	40	155	63,0	2	SIL171040	NIG171040

221

PM

Frese in Acciaio Sinterizzato
Powder Metal End Mills

231

SGR

Frese a Sgrossare in HSSCo8
Roughing End Mills in HSSCo8

243

FIN

Frese a Finire in HSSCo8
Finishing End Mills in HSSCo8

267

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

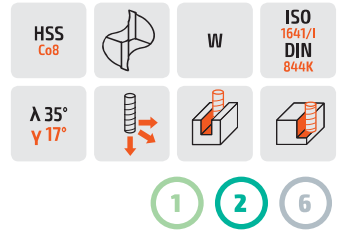
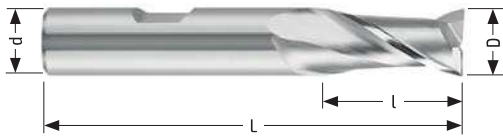
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Duplex

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Superalloys

9 Compositi
Composite
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173Fresa a finire serie normale
Finishing end mill, regular version

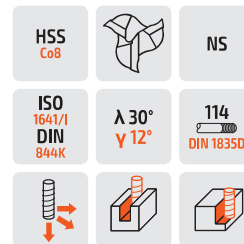
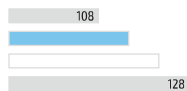
90°

D k10	d h6	L	l	Z	Non rivestito Uncoated	Balinit® Alcrona
4,0	6	55	11,0	2	SIL173004	NIG173004
5,0	6	57	13,0	2	SIL173005	NIG173005
6,0	6	57	13,0	2	SIL173006	NIG173006
7,0	10	66	16,0	2	SIL173007	NIG173007
8,0	10	69	19,0	2	SIL173008	NIG173008
9,0	10	69	19,0	2	SIL173009	NIG173009
10,0	10	72	22,0	2	SIL173010	NIG173010
11,0	12	79	22,0	2	SIL173011	NIG173011
12,0	12	83	26,0	2	SIL173012	NIG173012
13,0	12	83	26,0	2	SIL173013	NIG173013
14,0	12	83	26,0	2	SIL173014	NIG173014
15,0	12	83	26,0	2	SIL173015	NIG173015
16,0	16	92	32,0	2	SIL173016	NIG173016
17,0	16	92	32,0	2	SIL173017	NIG173017
18,0	16	92	32,0	2	SIL173018	NIG173018
19,0	16	92	32,0	2	SIL173019	NIG173019
20,0	20	104	38,0	2	SIL173020	NIG173020
25,0	25	121	45,0	2	SIL173025	NIG173025

1
Acciaio
Steel2
Ghise
Cast
Iron3
Acciai
Temprati
Hardened
Steel4
Acciaio
Inox
Stainless
Steel5
Titanio
Titanium6
Leghe
Leggere
Light
Alloys7
PH
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Compositi
Composite
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Legend

111

Frese a finire serie normale
Finishing end mill, regular version



90°

D k10	d h6	L	l	Z	Non rivestito Uncoated	Balinit® Alcrona
1,5	6	52	7,0	3	SIL111015	NIG111015
2,0	6	52	7,0	3	SIL111020	NIG111020
2,5	6	52	8,0	3	SIL111025	NIG111025
3,0	6	52	8,0	3	SIL111030	NIG111030
3,5	6	54	10,0	3	SIL111035	NIG111035
3,8	6	55	11,0	3	SIL111038	NIG111038
4,0	6	55	11,0	3	SIL111040	NIG111040
4,5	6	55	11,0	3	SIL111045	NIG111045
4,8	6	57	13,0	3	SIL111048	NIG111048
5,0	6	57	13,0	3	SIL111050	NIG111050
5,5	6	57	13,0	3	SIL111055	NIG111055
5,8	6	57	13,0	3	SIL111057	NIG111057
6,0	6	57	13,0	3	SIL111060	NIG111060
6,5	10	66	16,0	3	SIL111065	NIG111065
6,8	10	66	16,0	3	SIL111067	NIG111067
7,0	10	66	16,0	3	SIL111070	NIG111070
7,5	10	69	19,0	3	SIL111075	NIG111075
7,8	10	69	19,0	3	SIL111077	NIG111077
8,0	10	69	19,0	3	SIL111080	NIG111080
8,5	10	69	19,0	3	SIL111085	NIG111085
8,7	10	69	19,0	3	SIL111087	NIG111087
9,0	10	69	19,0	3	SIL111090	NIG111090
9,5	10	72	22,0	3	SIL111095	NIG111095
9,7	10	72	22,0	3	SIL111097	NIG111097
10,0	10	72	22,0	3	SIL111100	NIG111100
10,7	12	79	22,0	3	SIL111107	NIG111107
11,0	12	79	22,0	3	SIL111110	NIG111110
11,7	12	83	26,0	3	SIL111117	NIG111117
12,0	12	83	26,0	3	SIL111120	NIG111120
12,7	12	83	26,0	3	SIL111127	NIG111127
13,0	12	83	26,0	3	SIL111130	NIG111130
13,7	12	83	26,0	3	SIL111137	NIG111137
14,0	12	83	26,0	3	SIL111140	NIG111140
14,7	12	83	26,0	3	SIL111147	NIG111147
15,0	12	83	26,0	3	SIL111150	NIG111150
15,7	16	92	32,0	3	SIL111157	NIG111157
16,0	16	92	32,0	3	SIL111160	NIG111160
17,0	16	92	32,0	3	SIL111170	NIG111170
17,7	16	92	32,0	3	SIL111177	NIG111177
18,0	16	92	32,0	3	SIL111180	NIG111180
19,0	16	92	32,0	3	SIL111190	NIG111190
19,7	20	104	38,0	3	SIL111197	NIG111197
20,0	20	104	38,0	3	SIL11200	NIG11200
22,0	20	104	38,0	3	SIL11220	NIG11220
25,0	25	121	45,0	3	SIL11250	NIG11250
28,0	25	121	45,0	3	SIL11280	NIG11280
30,0	25	121	45,0	3	SIL11300	NIG11300
32,0	32	133	53,0	3	SIL11320	NIG11320

221

PM

Frese in Acciaio Sinterizzato
Powder Metal End Mills

231

SGR

Frese a Sgrossare in HSSCo8
Roughing End Mills in HSSCo8

243

FIN

Frese a Finire in HSSCo8
Finishing End Mills in HSSCo8

267

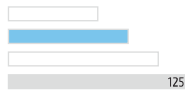
FRF

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

277

ALT

Altre Frese
Other mills

115Fresa a finire serie normale
Finishing end mill, regular version

ALU

HSS
Co8

W

ISO
1641/1
DIN
844K λ 35°
 γ 17°117
DIN 18350

6

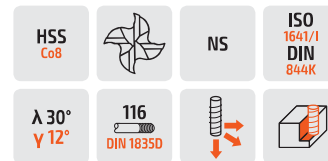
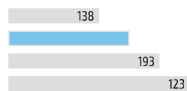
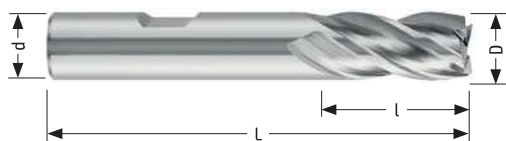
90°

D k10	d h6	L	l	Z	Non rivestito Uncoated	Balinit® Alcrona
6,0	6	57	13,0	3	SIL115006	NIG115006
8,0	10	69	19,0	3	SIL115008	NIG115008
10,0	10	72	22,0	3	SIL115010	NIG115010
12,0	12	83	26,0	3	SIL115012	NIG115012
14,0	12	83	26,0	3	SIL115014	NIG115014
16,0	16	92	32,0	3	SIL115016	NIG115016
18,0	16	92	32,0	3	SIL115018	NIG115018
20,0	20	104	38,0	3	SIL115020	NIG115020
25,0	25	121	45,0	3	SIL115025	NIG115025
30,0	25	121	45,0	3	SIL115030	NIG115030
32,0	32	133	53,0	3	SIL115032	NIG115032
40,0	32	155	63,0	3	SIL115040	NIG115040
50,0	32	177	75,0	3	SIL115050	NIG115050

Notes

113

Frese a finire serie normale
Finishing end mill, regular version



90°

D k10	d h6	L	l	Z	Non rivestito Uncoated	Balinit® Alcrona
1,5	6	52	7,0	4	SIL1130015	NIG1130015
2,0	6	52	7,0	4	SIL1130020	NIG1130020
2,5	6	52	8,0	4	SIL1130025	NIG1130025
3,0	6	52	8,0	4	SIL1130030	NIG1130030
3,5	6	54	10,0	4	SIL1130035	NIG1130035
4,0	6	55	11,0	4	SIL1130040	NIG1130040
4,5	6	55	11,0	4	SIL1130045	NIG1130045
5,0	6	57	13,0	4	SIL1130050	NIG1130050
5,5	6	57	13,0	4	SIL1130055	NIG1130055
6,0	6	57	13,0	4	SIL113006	NIG113006
7,0	10	66	16,0	4	SIL113007	NIG113007
8,0	10	69	19,0	4	SIL113008	NIG113008
9,0	10	69	19,0	4	SIL113009	NIG113009
10,0	10	72	22,0	4	SIL113010	NIG113010
11,0	12	79	22,0	4	SIL113011	NIG113011
12,0	12	83	26,0	4	SIL113012	NIG113012
13,0	12	83	26,0	4	SIL113013	NIG113013
14,0	12	83	26,0	4	SIL113014	NIG113014
15,0	12	83	26,0	4	SIL113015	NIG113015
16,0	16	92	32,0	4	SIL113016	NIG113016
17,0	16	92	32,0	4	SIL113017	NIG113017
18,0	16	92	32,0	4	SIL113018	NIG113018
19,0	16	92	32,0	4	SIL113019	NIG113019
20,0	20	104	38,0	4	SIL113020	NIG113020
22,0	20	104	38,0	4	SIL113022	NIG113022
24,0	25	121	45,0	4	SIL113024	NIG113024
25,0	25	121	45,0	4	SIL113025	NIG113025
26,0	25	121	45,0	4	SIL113026	NIG113026
28,0	25	121	45,0	6	SIL113028	NIG113028
30,0	25	121	45,0	6	SIL113030	NIG113030
32,0	32	133	53,0	6	SIL113032	NIG113032
36,0	32	133	53,0	6	SIL113036	NIG113036
40,0	40	155	63,0	6	SIL113040	NIG113040
50,0	50	177	75,0	6	SIL113050	NIG113050

221

PM

Frese in Acciaio Sinterizzato
Powder Metal End Mills

231

SGR

Frese a Sgrossare in HSSCo8
Roughing End Mills in HSSCo8

243

FIN

Frese a Finire in HSSCo8
Finishing End Mills in HSSCo8

267

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

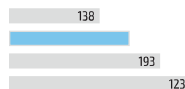
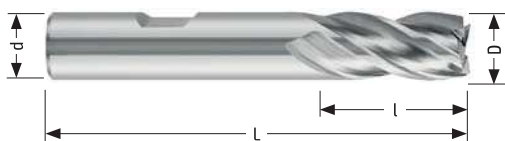
9 Compositi
Composite
Materials

→ 16 Guida alla
lettura
Reading
guide

→ 18 Legenda
Legend

113R

Fresa a finire serie normale
Finishing end mill, regular version



HSS
Co8

NS

ISO
1641/1
DIN
844K

λ 30°
 γ 12°

116
DIN 1835D

1

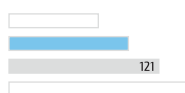
2

Con fori di lubrificazione / With internal coolant

90°	D k10	d h6	L	l	Z	Balinit® Alcrona
	16,0	16	92	32,0	4	RMG113016
	18,0	16	92	32,0	4	RMG113018
	20,0	20	104	38,0	4	RMG113020
	22,0	20	104	38,0	4	RMG113022
	25,0	25	121	45,0	4	RMG113025

118

Fresa a finire serie normale
Finishing end mill, regular version



HSS
Co8

NS

ISO
1641/1
DIN
844K

λ 40°
 γ 14°

119
DIN 1835D

1

2

6

90°	D k10	d h6	L	l	Z	Non rivestito Uncoated	Balinit® Alcrona
	4,0	6	55	11,0	4	SIL118004	NIG118004
	5,0	6	57	13,0	4	SIL118005	NIG118005
	6,0	6	57	13,0	4	SIL118006	NIG118006
	7,0	10	66	16,0	4	SIL118007	NIG118007
	8,0	10	69	19,0	4	SIL118008	NIG118008
	9,0	10	69	19,0	4	SIL118009	NIG118009
	10,0	10	72	22,0	4	SIL118010	NIG118010
	11,0	12	79	22,0	4	SIL118011	NIG118011
	12,0	12	83	26,0	4	SIL118012	NIG118012
	13,0	12	83	26,0	4	SIL118013	NIG118013
	14,0	12	83	26,0	4	SIL118014	NIG118014
	15,0	12	83	26,0	4	SIL118015	NIG118015
	16,0	16	92	32,0	4	SIL118016	NIG118016
	17,0	16	92	32,0	4	SIL118017	NIG118017
	18,0	16	92	32,0	4	SIL118018	NIG118018
	19,0	16	92	32,0	4	SIL118019	NIG118019
	20,0	20	104	38,0	6	SIL118020	NIG118020
	22,0	20	104	38,0	6	SIL118022	NIG118022
	25,0	25	121	45,0	6	SIL118025	NIG118025
	28,0	25	121	45,0	6	SIL118028	NIG118028
	30,0	25	121	45,0	6	SIL118030	NIG118030
	32,0	32	133	53,0	6	SIL118032	NIG118032

Notes

738

Fresa semisferica a finire serie corta
Ball nose finishing end mill, short version



D k10	d h6	L	l	r	Z	Non rivestito Uncoated	Balinit® Alcrona
2,0	6	49	4,0	1,00	2	VAN738020	NIG738020
2,5	6	49	5,0	1,25	2	VAN738025	NIG738025
3,0	6	49	5,0	1,50	2	VAN738030	NIG738030
4,0	6	51	7,0	2,00	2	VAN738040	NIG738040
5,0	6	52	8,0	2,50	2	VAN738050	NIG738050
5,5	6	52	8,0	2,75	2	VAN738055	NIG738055
6,0	6	52	8,0	3,00	2	VAN738060	NIG738060
7,0	10	60	10,0	3,50	2	VAN738070	NIG738070
8,0	10	61	11,0	4,00	2	VAN738080	NIG738080
10,0	10	63	13,0	5,00	2	VAN738100	NIG738100
12,0	12	73	16,0	6,00	2	VAN738120	NIG738120
14,0	12	73	16,0	7,00	2	VAN738140	NIG738140
15,0	12	73	16,0	7,50	2	VAN738150	NIG738150
16,0	16	79	19,0	8,00	2	VAN738160	NIG738160
18,0	16	79	19,0	9,00	2	VAN738180	NIG738180
20,0	20	88	22,0	10,00	2	VAN738200	NIG738200

221

PM

Frese in Acciaio Sinterizzato
Powder Metal End Mills

231

SGR

Frese a Sgrossare in HSSCo8
Roughing End Mills in HSSCo8

243

FIN

Frese a Finire in HSSCo8
Finishing End Mills in HSSCo8

267

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

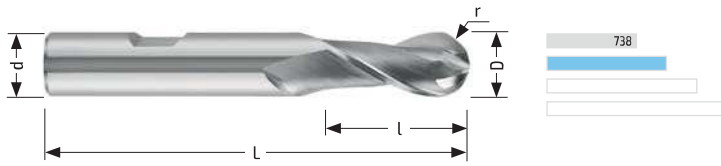
7 PH
Duplex

8 Superleghe
Superalloys

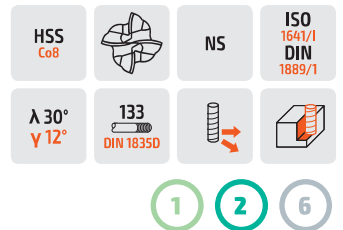
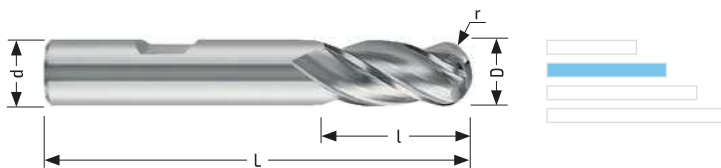
9 Compositi
Composite
Materials

→ 16 Guida alla
lettura
Reading
guide

→ 18 Legenda
Legend

737Fresa semisferica a finire serie normale
Ball nose finishing end mill, regular version

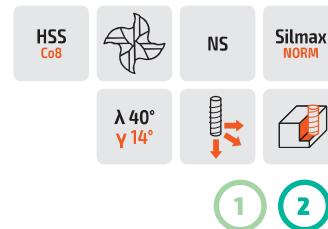
D k10	d h6	L	l	r	Z	Non rivestito Uncoated	Balinit® Alcrona
0,5	3	37	1,5	0,25	2	VAN737005	NIG737005
0,8	4	37	2,0	0,40	2	VAN737008	NIG737008
1,0	4	37	3,0	0,50	2	VAN737010	NIG737010
1,2	4	37	4,0	0,60	2	VAN737012	NIG737012
1,5	4	37	4,0	0,75	2	VAN737015	NIG737015
1,8	4	37	5,0	0,90	2	VAN737018	NIG737018
2,0	6	52	7,0	1,00	2	VAN737020	NIG737020
2,5	6	52	8,0	1,25	2	VAN737025	NIG737025
3,0	6	52	8,0	1,50	2	VAN737030	NIG737030
4,0	6	55	11,0	2,00	2	VAN737040	NIG737040
5,0	6	57	13,0	2,50	2	VAN737050	NIG737050
6,0	6	57	13,0	3,00	2	VAN737060	NIG737060
7,0	10	66	16,0	3,50	2	VAN737070	NIG737070
8,0	10	69	19,0	4,00	2	VAN737080	NIG737080
10,0	10	72	22,0	5,00	2	VAN737100	NIG737100
12,0	12	83	26,0	6,00	2	VAN737120	NIG737120
14,0	12	83	26,0	7,00	2	VAN737140	NIG737140
16,0	16	92	32,0	8,00	2	VAN737160	NIG737160
18,0	16	92	32,0	9,00	2	VAN737180	NIG737180
20,0	20	104	38,0	10,00	2	VAN737200	NIG737200

131Fresa semisferica a finire serie normale
Ball nose finishing end mill, regular version

D k10	d h6	L	l	r	Z	Non rivestito Uncoated	Balinit® Alcrona
6,00	6	57	13,0	3,00	4	SIL131006	NIG131006
8,00	10	69	19,0	4,00	4	SIL131008	NIG131008
10,00	10	72	22,0	5,00	4	SIL131010	NIG131010
12,00	12	83	26,0	6,00	4	SIL131012	NIG131012
14,00	12	83	26,0	7,00	4	SIL131014	NIG131014
16,00	16	92	32,0	8,00	4	SIL131016	NIG131016
18,00	16	92	32,0	9,00	4	SIL131018	NIG131018
20,00	20	104	38,0	10,00	6	SIL131020	NIG131020
22,00	20	104	38,0	11,00	6	SIL131022	NIG131022
25,00	25	121	45,0	12,50	6	SIL131025	NIG131025
30,00	25	121	45,0	15,00	6	SIL131030	NIG131030
32,00	32	133	53,0	16,00	6	SIL131032	NIG131032

121

Fresa a finire serie media
Finishing end mill, medium version

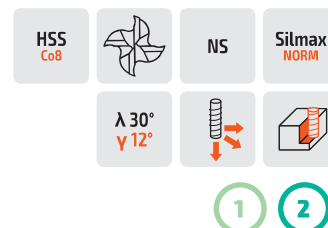
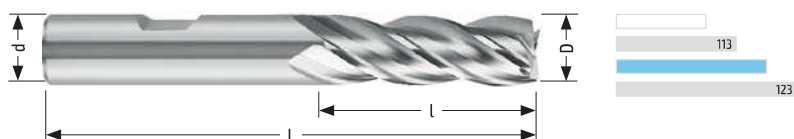


90°

D k10	d h6	L	l	Z	Non rivestito Uncoated	Balinit® Alcrona
6	6	62	18	4	SIL121006	NIG121006
8	10	75	25	4	SIL121008	NIG121008
10	10	83	33	4	SIL121010	NIG121010
12	12	96	39	4	SIL121012	NIG121012
14	12	96	39	4	SIL121014	NIG121014
16	16	105	45	4	SIL121016	NIG121016
18	16	105	45	4	SIL121018	NIG121018
20	20	121	55	6	SIL121020	NIG121020
25	25	141	65	6	SIL121025	NIG121025

193

Fresa a finire serie media
Finishing end mill, medium version



90°

D k10	d h6	L	l	Z	Non rivestito Uncoated	Balinit® Alcrona
6,0	6	62	18,0	4	SIL193006	NIG193006
8,0	10	75	25,0	4	SIL193008	NIG193008
10,0	10	83	33,0	4	SIL193010	NIG193010
12,0	12	96	39,0	4	SIL193012	NIG193012
14,0	12	96	39,0	4	SIL193014	NIG193014
16,0	16	105	45,0	4	SIL193016	NIG193016
18,0	16	105	45,0	4	SIL193018	NIG193018
20,0	20	121	55,0	4	SIL193020	NIG193020
22,0	20	121	55,0	4	SIL193022	NIG193022
25,0	25	141	65,0	4	SIL193025	NIG193025
28,0	25	141	65,0	6	SIL193028	NIG193028
30,0	25	141	65,0	6	SIL193030	NIG193030
32,0	32	158	78,0	6	SIL193032	NIG193032

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
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Legend

221

PM

Frese in Acciaio Sinterizzato
Powder Metal End Mills

231

SGR

Frese a Sgrossare in HSSCo8
Roughing End Mills in HSSCo8

243

FIN

Frese a Finire in HSSCo8
Finishing End Mills in HSSCo8

267

FRF

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

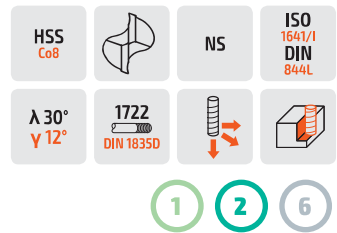
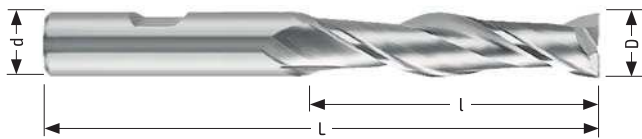
277

ALT

Altre Frese
Other mills

1712

Fresa a finire serie lunga
Finishing end mill, long version

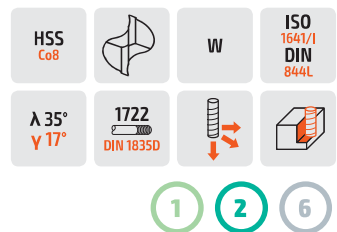


90°

D k10	d h6	L	l	Z	Non rivestito Uncoated	Balinit® Alcrona
6,0	6	68	24,0	2	SIL171206	NIG171206
8,0	10	88	38,0	2	SIL171208	NIG171208
10,0	10	95	45,0	2	SIL171210	NIG171210
12,0	12	110	53,0	2	SIL171212	NIG171212
14,0	12	110	53,0	2	SIL171214	NIG171214
16,0	16	123	63,0	2	SIL171216	NIG171216
18,0	16	123	63,0	2	SIL171218	NIG171218
20,0	20	141	75,0	2	SIL171220	NIG171220
22,0	20	141	75,0	2	SIL171222	NIG171222
25,0	25	166	90,0	2	SIL171225	NIG171225
28,0	25	166	90,0	2	SIL171228	NIG171228
30,0	25	166	90,0	2	SIL171230	NIG171230
32,0	32	186	106,0	2	SIL171232	NIG171232
36,0	32	186	106,0	2	SIL171236	NIG171236
40,0	40	217	125,0	2	SIL171240	NIG171240

174

Fresa a finire serie lunga
Finishing end mill, long version



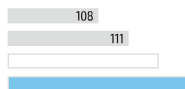
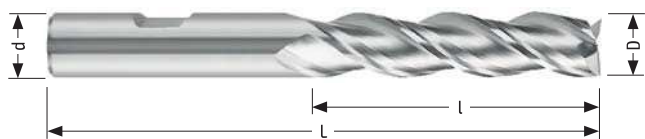
90°

D k10	d h6	L	l	Z	Non rivestito Uncoated	Balinit® Alcrona
6,0	6	68	24,0	2	SIL174006	NIG174006
8,0	10	88	38,0	2	SIL174008	NIG174008
10,0	10	95	45,0	2	SIL174010	NIG174010
12,0	12	110	53,0	2	SIL174012	NIG174012
14,0	12	110	53,0	2	SIL174014	NIG174014
16,0	16	123	63,0	2	SIL174016	NIG174016
18,0	16	123	63,0	2	SIL174018	NIG174018
20,0	20	141	75,0	2	SIL174020	NIG174020
25,0	25	166	90,0	2	SIL174025	NIG174025

Notes

128

Fresa a finire serie lunga
Finishing end mill, long version



HSS Co8

NS

ISO 1641/1
DIN 844L

$\lambda 30^\circ$
 $\gamma 12^\circ$

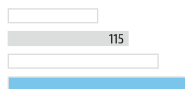
1 2

90°

D k10	d h6	L	l	Z	Non rivestito Uncoated	Balinit® Alcrona
3,0	6	56	12,0	3	SIL128003	NIG128003
4,0	6	63	19,0	3	SIL128004	NIG128004
5,0	6	68	24,0	3	SIL128005	NIG128005
6,0	6	68	24,0	3	SIL128006	NIG128006
7,0	10	80	30,0	3	SIL128007	NIG128007
8,0	10	88	38,0	3	SIL128008	NIG128008
9,0	10	88	38,0	3	SIL128009	NIG128009
10,0	10	95	45,0	3	SIL128010	NIG128010
12,0	12	110	53,0	3	SIL128012	NIG128012
14,0	12	110	53,0	3	SIL128014	NIG128014
15,0	12	110	53,0	3	SIL128015	NIG128015
16,0	16	123	63,0	3	SIL128016	NIG128016
18,0	16	123	63,0	3	SIL128018	NIG128018
20,0	20	141	75,0	3	SIL128020	NIG128020

125

Fresa a finire serie lunga
Finishing end mill, long version



HSS Co8

W

ISO 1641/1
DIN 844L

$\lambda 35^\circ$
 $\gamma 17^\circ$

127
DIN 1835D

6

90°

D k10	d h6	L	l	Z	Non rivestito Uncoated	Balinit® Alcrona
6,0	6	68	24,0	3	SIL125006	NIG125006
8,0	10	88	38,0	3	SIL125008	NIG125008
10,0	10	95	45,0	3	SIL125010	NIG125010
12,0	12	110	53,0	3	SIL125012	NIG125012
14,0	12	110	53,0	3	SIL125014	NIG125014
16,0	16	123	63,0	3	SIL125016	NIG125016
18,0	16	123	63,0	3	SIL125018	NIG125018
20,0	20	141	75,0	3	SIL125020	NIG125020
25,0	25	166	90,0	3	SIL125025	NIG125025
30,0	25	166	90,0	3	SIL125030	NIG125030
32,0	32	186	106,0	3	SIL125032	NIG125032
40,0	32	217	125,0	3	SIL125040	NIG125040

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

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Legend

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PM

Frese in Acciaio Sinterizzato
Powder Metal End Mills

231

SGR

Frese a Sgrossare in HSSCo8
Roughing End Mills in HSSCo8

243

FIN

Frese a Finire in HSSCo8
Finishing End Mills in HSSCo8

267

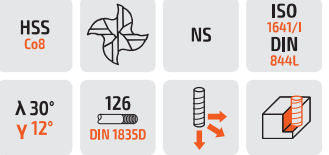
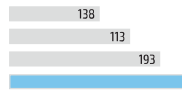
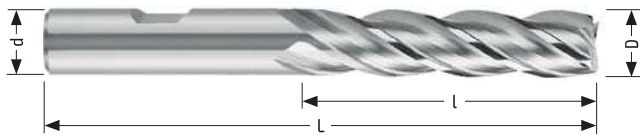
FRF

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

277

ALT

Altre Frese
Other mills

123Fresa a finire serie lunga
Finishing end mill, long version

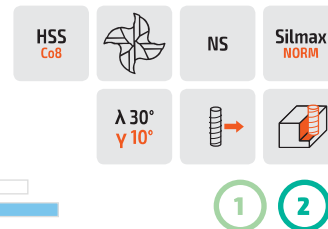
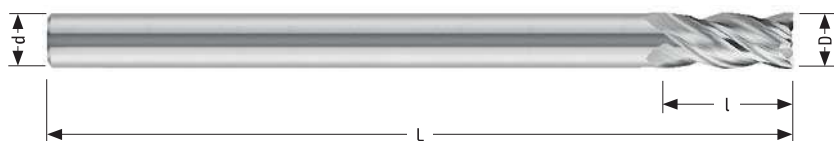
90°

D k10	d h6	L	l	Z	Non rivestito Uncoated	Balinit® Alcrona
6,0	6	68	24,0	4	SIL123006	NIG123006
8,0	10	88	38,0	4	SIL123008	NIG123008
10,0	10	95	45,0	4	SIL123010	NIG123010
12,0	12	110	53,0	4	SIL123012	NIG123012
14,0	12	110	53,0	4	SIL123014	NIG123014
16,0	16	123	63,0	4	SIL123016	NIG123016
18,0	16	123	63,0	4	SIL123018	NIG123018
20,0	20	141	75,0	4	SIL123020	NIG123020
22,0	20	141	75,0	4	SIL123022	NIG123022
25,0	25	166	90,0	4	SIL123025	NIG123025
28,0	25	166	90,0	6	SIL123028	NIG123028
30,0	25	166	90,0	6	SIL123030	NIG123030
32,0	32	186	106,0	6	SIL123032	NIG123032
36,0	32	186	106,0	6	SIL123036	NIG123036
40,0	40	217	125,0	6	SIL123040	NIG123040
50,0	50	252	150,0	6	SIL123050	NIG123050

Notes

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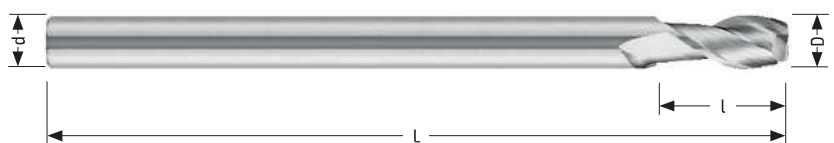
Fresa a finire serie extra lunga
Finishing end mill, extra long version



D k10	d h6	L	l	Z	Non rivestito Uncoated
6,0	6	180	25,0	4	SIL145006
8,0	8	180	25,0	4	SIL145008
10,0	10	200	30,0	4	SIL145010
12,0	12	200	30,0	4	SIL145012
14,0	14	200	35,0	4	SIL145014
16,0	16	200	35,0	4	SIL145016
20,0	20	200	35,0	4	SIL145020
25,0	25	200	40,0	4	SIL145025

146

Fresa a finire serie extra lunga
Finishing end mill, extra long version



D k10	d h6	L	l	Z	Non rivestito Uncoated
6,0	6	180	25,0	2	SIL146006
8,0	8	180	25,0	2	SIL146008
10,0	10	200	30,0	2	SIL146010
12,0	12	200	30,0	2	SIL146012
14,0	14	200	35,0	2	SIL146014
16,0	16	200	35,0	2	SIL146016
20,0	20	200	35,0	2	SIL146020

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
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PM

Frese in Acciaio Sinterizzato
Powder Metal End Mills

231

SGR

Frese a Sgrossare in HSSCo8
Roughing End Mills in HSSCo8

243

FIN

Frese a Finire in HSSCo8
Finishing End Mills in HSSCo8

267

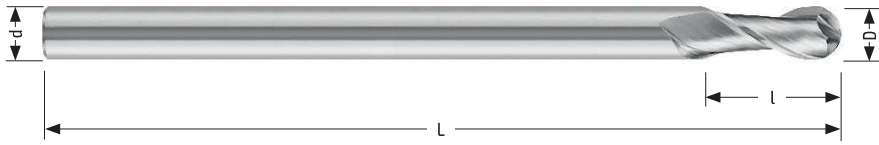
FRF

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

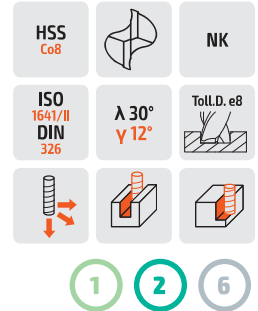
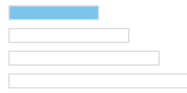
277

ALT

Altre Frese
Other mills

148Fresa a finire serie extra lunga
Finishing end mill, extra long version

D k10	d h6	L	l	r	Z	Non rivestito Uncoated
6,0	6	180	25,0	3,00	2	SIL148006
8,0	8	180	25,0	4,00	2	SIL148008
10,0	10	200	30,0	5,00	2	SIL148010
12,0	12	200	30,0	6,00	2	SIL148012
14,0	14	200	35,0	7,00	2	SIL148014
16,0	16	200	35,0	8,00	2	SIL148016
20,0	20	200	35,0	10,00	2	SIL148020

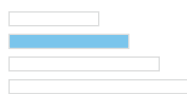
750Fresa a finire serie corta
Finishing end mill, short version

D e8	L	l	Mk	Z	Non rivestito Uncoated	Balinit® Alcrona
10,0	83	13,0	1	2	VAN750010	NIG750010
12,0	86	16,0	1	2	VAN750012	NIG750012
14,0	86	16,0	1	2	VAN750014	NIG750014
16,0	104	19,0	2	2	VAN750016	NIG750016
18,0	104	19,0	2	2	VAN750018	NIG750018
20,0	107	22,0	2	2	VAN750020	NIG750020
22,0	107	22,0	2	2	VAN750022	NIG750022
24,0	128	26,0	3	2	VAN750010	NIG750010
25,0	128	26,0	3	2	VAN750012	NIG750012
26,0	128	26,0	3	2	VAN750014	NIG750014
28,0	128	26,0	3	2	VAN750016	NIG750016
30,0	128	26,0	3	2	VAN750018	NIG750018
32,0	134	32,0	3	2	VAN750020	NIG750020
35,0	157	32,0	4	2	VAN750022	NIG750022
36,0	157	32,0	4	2	VAN750036	NIG750036
38,0	163	38,0	4	2	VAN750038	NIG750038
40,0	163	38,0	4	2	VAN750040	NIG750040

Notes

152

Frese a finire serie normale
Finishing end mill, regular version



HSS Co8

ISO 1641/II
DIN 845K

λ 30°
γ 12°

NS



90°

D k10	L	l	Mk	Z	Non rivestito Uncoated	Balinit® Alcrona
16,0	117	32,0	2	4	SIL152016	NIG152016
18,0	117	32,0	2	4	SIL152018	NIG152018
20,0	123	38,0	2	4	SIL152020	NIG152020
22,0	140	38,0	3	4	SIL152022	NIG152022
25,0	147	45,0	3	4	SIL152025	NIG152025
28,0	147	45,0	3	6	SIL152028	NIG152028
30,0	147	45,0	3	6	SIL152030	NIG152030
32,0	155	53,0	3	6	SIL152032	NIG152032
36,0	178	53,0	4	6	SIL152036	NIG152036
40,0	188	63,0	4	6	SIL152040	NIG152040
45,0	188	63,0	4	6	SIL152045	NIG152045

160

Frese a finire serie lunga
Finishing end mill, long version



HSS Co8

ISO 1641/II
DIN 845L

λ 30°
γ 12°

NS



90°

D k10	L	l	Mk	Z	Non rivestito Uncoated	Balinit® Alcrona
16,0	148	63,0	2	4	SIL160016	NIG160016
18,0	148	63,0	2	5	SIL160018	NIG160018
20,0	177	75,0	3	5	SIL160020	NIG160020
22,0	177	75,0	3	5	SIL160022	NIG160022
25,0	192	90,0	3	6	SIL160025	NIG160025
28,0	192	90,0	3	6	SIL160028	NIG160028
30,0	192	90,0	3	6	SIL160030	NIG160030
32,0	231	106,0	4	6	SIL160032	NIG160032
36,0	231	106,0	4	6	SIL160036	NIG160036
40,0	250	125,0	4	6	SIL160040	NIG160040
50,0	308	150,0	5	8	SIL160050	NIG160050

Mk - DIN2207

40,0	273	125,0	4	6	SIL160140	NIG160140
50,0	336	150,0	5	8	SIL160150	NIG160150

1 Acciaio
Steel

2 Ghise
Cast
Iron

3 Acciai
Temprati
Hardened
Steel

4 Acciaio
Inox
Stainless
Steel

5 Titanio
Titanium

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PM

Frese in Acciaio Sinterizzato
Powder Metal End Mills

231

SGR

Frese a Sgrossare in HSSCo8
Roughing End Mills in HSSCo8

243

FIN

Frese a Finire in HSSCo8
Finishing End Mills in HSSCo8

267

FRF

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



277

ALT

Altre Frese
Other mills

FIN

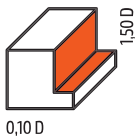
Parametri di lavoro / Working Parameters

Serie Corta (Short Version) + 20% / Serie Media (Medium Version) -20% / Serie Lunga (Long Version) -40%																			
Materiale Material	Diametro Diameter																		
		NIG Z=4			SIL Z=4			NIG Z=3			SIL Z=3			NIG Z=2			SIL Z=2		
	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	fz mm/z	F mm/min	n rpm	fz mm/z	F mm/min	n rpm
Acciaio <800 N/mm ² Steel <800 N/mm ²	6,0	0,019	270	3560	0,015	100	1700	0,020	210	3560	0,016	85	1700	0,022	160	3560	0,018	60	1700
	8,0	0,037	400	2670	0,030	150	1270	0,029	230	2670	0,025	95	1270	0,032	170	2670	0,028	70	1270
	10,0	0,050	430	2130	0,039	160	1020	0,038	240	2130	0,031	95	1020	0,042	180	2130	0,034	70	1020
	12,0	0,060	430	1780	0,047	160	850	0,048	250	1780	0,037	95	850	0,053	190	1780	0,041	70	850
	16,0	0,081	430	1330	0,066	170	640	0,064	25	1330	0,050	95	640	0,071	190	1330	0,055	70	640
	20,0	0,103	440	1070	0,083	170	510	0,071	230	1070	0,053	80	510	0,079	170	1070	0,059	60	510
	25,0	0,126	430	850	0,098	160	410	0,079	200	850	0,060	75	410	0,088	150	850	0,067	55	410
Acciaio <1000 N/mm ² Steel <1000 N/mm ²	6,0	0,018	230	3240	0,015	90	1540	0,021	200	3240	0,017	80	1540	0,023	150	3240	0,019	60	1540
	8,0	0,036	350	2430	0,028	130	1150	0,032	230	2430	0,027	95	1150	0,035	170	2430	0,03	70	1150
	10,0	0,048	370	1940	0,038	140	920	0,041	240	1940	0,034	95	920	0,046	180	1940	0,038	70	920
	12,0	0,057	370	1620	0,045	140	770	0,053	260	1620	0,041	95	770	0,059	190	1620	0,045	70	770
	16,0	0,076	370	1210	0,06	140	580	0,067	240	1210	0,054	95	580	0,074	180	1210	0,06	70	580
	20,0	0,098	380	970	0,076	140	460	0,074	210	970	0,059	80	460	0,082	160	970	0,065	60	460
	25,0	0,119	370	780	0,095	140	370	0,081	190	780	0,061	70	370	0,090	140	780	0,068	50	370
Acciaio <1300 N/mm ² Steel <1300 N/mm ²	6,0	0,016	160	2440	0,013	60	1170	0,018	130	2440	0,015	50	1170	0,020	100	2440	0,017	40	1170
	8,0	0,031	230	1830	0,026	90	880	0,030	160	1830	0,021	55	880	0,033	120	1830	0,023	40	880
	10,0	0,043	250	1460	0,036	100	700	0,037	160	1460	0,032	70	700	0,041	120	1460	0,036	50	700
	12,0	0,051	250	1220	0,043	100	580	0,048	170	1220	0,039	70	580	0,053	130	1220	0,043	50	580
	16,0	0,068	250	920	0,057	100	440	0,059	160	920	0,051	70	440	0,065	120	920	0,057	50	440
	20,0	0,086	250	730	0,071	100	350	0,061	130	730	0,051	55	350	0,068	100	730	0,057	40	350
	25,0	0,106	250	590	0,089	100	280	0,061	110	590	0,057	50	280	0,068	80	590	0,063	35	280
Acciaio da stampi Mold Steel	6,0	0,015	90	1540	0,01	30	740	0,017	80	1540	0,018	40	740	0,019	60	1540	0,020	30	740
	8,0	0,028	130	1150	0,022	50	560	0,023	80	1150	0,024	40	560	0,026	60	1150	0,027	30	560
	10,0	0,038	140	920	0,028	50	450	0,034	95	920	0,030	40	450	0,038	70	920	0,033	30	450
	12,0	0,045	140	770	0,034	50	370	0,041	95	770	0,037	40	370	0,045	70	770	0,041	30	370
	16,0	0,060	140	580	0,045	50	280	0,054	95	580	0,049	40	280	0,060	70	580	0,054	30	280
	20,0	0,076	140	460	0,057	50	220	0,059	80	460	0,050	30	220	0,065	60	460	0,056	25	220
	25,0	0,095	140	370	0,069	50	180	0,061	70	370	0,055	30	180	0,068	50	370	0,061	22	180

Notes

FIN

Parametri di lavoro / Working Parameters

Serie Corta (Short Version) + 20% / Serie Media (Medium Version) -20% / Serie Lunga (Long Version) -40%													
Materiale Material	Diametro Diameter												
		NIG Z=3				SIL Z=3			NIG Z=2			SIL Z=2	
Alu e Leghe < 6% Si Alu & alloys < 6% Si	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
	6,0	0,028	900	10620	0,022	340	5040	0,028	600	10620	0,022	227	5040
	8,0	0,056	1340	7960	0,045	510	3780	0,056	893	7960	0,045	340	3780
	10,0	0,075	1430	6370	0,061	550	3030	0,075	953	6370	0,061	367	3030
	12,0	0,090	1430	5310	0,073	550	2520	0,090	953	5310	0,073	367	2520
	16,0	0,122	1460	3980	0,097	550	1890	0,122	973	3980	0,097	367	1890
	20,0	0,154	1470	3180	0,124	560	1510	0,154	980	3180	0,124	373	1510
	25,0	0,187	1430	2550	0,152	550	1210	0,187	953	2550	0,152	367	1210
Alu e Leghe > 6% Si Alu & alloys > 6% Si	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
	6,0	0,023	500	7380	0,018	190	3500	0,023	333	7380	0,018	127	3500
	8,0	0,045	750	5530	0,035	280	2630	0,045	500	5530	0,035	187	2630
	10,0	0,060	800	4430	0,048	300	2100	0,060	533	4430	0,048	200	2100
	12,0	0,072	800	3690	0,057	300	1750	0,072	533	3690	0,057	200	1750
	16,0	0,097	810	2770	0,079	310	1310	0,097	540	2770	0,079	207	1310
	20,0	0,122	810	2210	0,098	310	1050	0,122	540	2210	0,098	207	1050
	25,0	0,151	800	1770	0,119	300	840	0,151	533	1770	0,119	200	840
Rame e Leghe Copper & alloys	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
	6,0	0,018	370	6900	0,012	130	3710	0,018	240	6900	0,012	80	3710
	8,0	0,030	460	5170	0,019	150	2780	0,030	310	5170	0,019	100	2780
	10,0	0,045	550	4140	0,026	170	2220	0,045	370	4140	0,026	110	2220
	12,0	0,065	670	3450	0,040	220	1850	0,065	440	3450	0,040	140	1850
	16,0	0,085	650	2580	0,055	220	1390	0,085	430	2580	0,055	150	1390
	20,0	0,115	710	2070	0,075	240	1110	0,115	470	2070	0,075	160	1110
	25,0	0,155	760	1650	0,090	240	890	0,155	510	1650	0,090	160	890
Resina Termo Plastica Thermo Plastics	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
	6,0	0,050	1270	8490	0,020	250	4240	0,050	840	8490	0,020	160	4240
	8,0	0,070	1330	6360	0,030	280	3180	0,070	890	6360	0,030	190	3180
	10,0	0,080	1220	5090	0,040	300	2540	0,080	810	5090	0,040	200	2540
	12,0	0,090	1140	4240	0,050	310	2120	0,090	760	4240	0,050	210	2120
	16,0	0,120	1140	3180	0,065	310	1590	0,120	760	3180	0,065	200	1590
	20,0	0,150	1140	2540	0,075	280	1270	0,150	760	2540	0,075	190	1270
	25,0	0,170	1030	2030	0,090	270	1010	0,170	690	2030	0,090	180	1010

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