

SILMAX


FORATURA
DRILLING

QUALITY AS A STANDARD





200 YEARS
OF PERFECT
SHAPES




PHM Punta Alto Rendimento
High Performance Drills

	Codice Code	Ø (D mm)	Descrizione	Description
	3030A	2,6 ÷ 16,0	Punta 3xD senza fori	3xD drill without internal coolant
	3031A	3,0 ÷ 20,0	Punta 3xD con fori	3xD drill with internal coolant
	3050A	0,3 ÷ 16,0	Punta 5xD senza fori	5xD drill without internal coolant
	3051A	3,0 ÷ 20,0	Punta 5xD con fori	5xD drill with internal coolant
	3081A	1,0 ÷ 16,0	Punta 8xD con fori	8xD drill with internal coolant
	780	2,00 ÷ 12,00	Punte per foratura manuale di pannelli CFRP e sandwich Titanio/Alluminio	Manual drill for CFRP panels and Titanium/Aluminium sandwiches


PHG Punta a Gradino
Step Drills

	Codice Code	Ø (D mm)	Descrizione	Description
	3825	M4 ÷ M12	Punta per prefiori di maschiatura ad esecuzione dello smusso con fori di lubrificazione	Step drill for core drill sizes for taps with internal coolant
	3835	M4 ÷ M12	Punta per prefiori di maschiatura ad esecuzione dello smusso con fori di lubrificazione	Step drill for core drill sizes for taps with internal coolant

PHC Punta a Centrare
Center Drills

	Codice Code	Ø (D mm)	Descrizione	Description
	351	1,0 ÷ 5,0	Punta a centrare	Center drill
	357	3,0 ÷ 16,0	Punta a centrare	Center drill
	358	3,0 ÷ 12,0	Punta a centrare	Center drill

ALR Alesatori Centesimali
Reamers

	Codice Code	Ø (D mm)	Descrizione	Description
	503	0,9 ÷ 12,47	Alesatore centesimale	Reamer



FORATURA DRILLING

Legenda

Legend

→ 4

Punte Alto Rendimento
High Performance Drills

→ 6

Punte a Gradino
Step Drills

→ 21

Punte a Centrare
Center Drills

→ 23

Alisatori Centesimali
Reamers

→ 25

Silservice

→ 27

	Acciaio Steel	Chise Cast iron	Acciai Temprati Hardened steels	Acciaio Inox Stainless steel	Titanio Titanium	Leghe Leggere Light Alloys	PH Duplex	Superleghe Superalloys	Compositi Composite Materials	Pagina Page
	•	•	-	•	•	-	•	•	•	6
	•	•	-	•	•	-	•	•	•	8
	•	•	-	•	•	-	•	•	•	10
	•	•	-	•	•	-	•	•	•	12
	•	•	-	•	•	-	•	•	•	15
	-	-	-	-	-	-	-	-	•	16
	①	②	③	④	⑤	⑥	⑦	⑧	⑨	
	•	•	-	•	•	-	•	•	•	22
	•	•	-	•	•	-	•	•	•	22
	①	②	③	④	⑤	⑥	⑦	⑧	⑨	
	•	•	-	•	•	•	•	•	•	23
	•	•	-	•	•	•	•	•	•	24
	•	•	-	•	•	•	•	•	•	24
	①	②	③	④	⑤	⑥	⑦	⑧	⑨	
	•	•	-	•	•	•	•	•	•	26



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silmax.it/drilling

LEGENDA

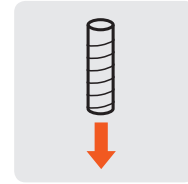
LEGEND



Senza fori di lubrificazione interna
Without internal lubrication holes



Con fori di lubrificazione interna
With internal lubrication holes



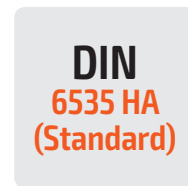
Direzioni di avanzamento
Feed direction



Angolo elica
Helix angle



Norma di riferimento
Reference norm



Esecuzione Standard
Standard Execution



Attacco Whistle Notch Din 6535HE (su richiesta)
Whistle Notch Din 6535HE (on request)



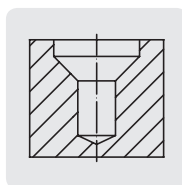
Profondità di foratura
Drilling depth



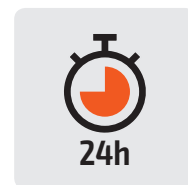
Angolo di punta
Nose angle



Angolo di Svasatura
Countersink angle



Profilo del foro
Profile of the hole



Servizio 24h
Fast delivery

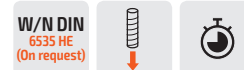
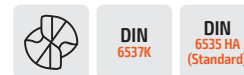
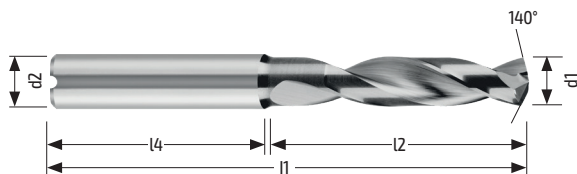


Consegna rapida
Fast delivery



PUNTE ALTO RENDIMENTO HIGH PERFORMANCE DRILLS

3030A Punta 3xD senza fori 3xD drill without internal coolant



Balinit® X-Pro	d1 m7	d2 h6	l2	l4	l1
HMX3030A026	2,6				
HMX3030A027	2,7				
HMX3030A028	2,8				
HMX3030A029	2,9				
HMX3030A030	3,0				
HMX3030A031	3,1				
HMX3030A032	3,2	6	20	36	62
HMX3030A033	3,3				
HMX3030A034	3,4				
HMX3030A035	3,5				
HMX3030A036	3,6				
HMX3030A037	3,7				
HMX3030A038	3,8				
HMX3030A039	3,9				
HMX3030A040	4,0				
HMX3030A041	4,1				
HMX3030A042	4,2	6	24		
HMX3030A043	4,3				
HMX3030A044	4,4				
HMX3030A045	4,5				
HMX3030A046	4,6				
HMX3030A047	4,7				
HMX3030A048	4,8				
HMX3030A049	4,9			36	66
HMX3030A050	5,0				
HMX3030A051	5,1				
HMX3030A052	5,2				
HMX3030A053	5,3				
HMX3030A054	5,4	6	28		
HMX3030A055	5,5				
HMX3030A056	5,6				
HMX3030A057	5,7				
HMX3030A058	5,8				
HMX3030A059	5,9				
HMX3030A060	6,0				
HMX3030A061	6,1				
HMX3030A062	6,2				
HMX3030A063	6,3				
HMX3030A064	6,4				
HMX3030A065	6,5	8	34	36	79
HMX3030A066	6,6				
HMX3030A067	6,7				
HMX3030A068	6,8				

3030A

Punta 3xD senza fori
3xD drill without internal coolant

140°

Balinit® X-Pro	d1 m7	d2 h6	l2	l4	l1
HMX3030A069	6,9	8	34	36	79
HMX3030A070	7,0				
HMX3030A072	7,2				
HMX3030A074	7,4	8	41		
HMX3030A075	7,5				
HMX3030A078	7,8				
HMX3030A079	7,9				
HMX3030A080	8,0				
HMX3030A081	8,1	10	47	40	89
HMX3030A082	8,2				
HMX3030A083	8,3				
HMX3030A085	8,5				
HMX3030A086	8,6				
HMX3030A087	8,7				
HMX3030A088	8,8				
HMX3030A089	8,9				
HMX3030A090	9,0				
HMX3030A091	9,1				
HMX3030A093	9,3				
HMX3030A095	9,5				
HMX3030A098	9,8				
HMX3030A099	9,9				
HMX3030A100	10,0				
HMX3030A102	10,2	12	55	45	102
HMX3030A105	10,5				
HMX3030A106	10,6				
HMX3030A108	10,8				
HMX3030A110	11,0				
HMX3030A113	11,3				
HMX3030A114	11,4				
HMX3030A115	11,5				
HMX3030A117	11,7				
HMX3030A118	11,8				
HMX3030A119	11,9				
HMX3030A120	12,0				
HMX3030A123	12,3	14	60	45	107
HMX3030A125	12,5				
HMX3030A128	12,8				
HMX3030A130	13,0				
HMX3030A135	13,5				
HMX3030A138	13,8				
HMX3030A140	14,0				
HMX3030A141	14,1	16	65	48	115
HMX3030A142	14,2				
HMX3030A145	14,5				
HMX3030A148	14,8				
HMX3030A150	15,0				
HMX3030A151	15,1				
HMX3030A153	15,3				
HMX3030A155	15,5				
HMX3030A158	15,8				
HMX3030A160	16,0				

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

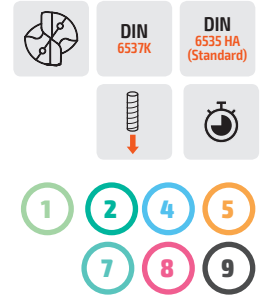
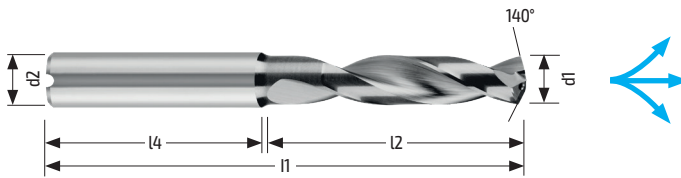
8
Superleghe
Superalloys

9
Compositi
Composite
Materials

10
Grafite
Graphite

3031A

Punta 3xD con fori
3xD drill with internal coolant



140°

Balinit®
X-Pro

	d1 m7	d2 h6	l2	l4	l1
HMX3031A030	3,0	6	20	36	62
HMX3031A031	3,1				
HMX3031A032	3,2				
HMX3031A033	3,3				
HMX3031A034	3,4				
HMX3031A035	3,5				
HMX3031A036	3,6				
HMX3031A037	3,7				
HMX3031A038	3,8	6	24	36	66
HMX3031A039	3,9				
HMX3031A040	4,0				
HMX3031A041	4,1				
HMX3031A042	4,2				
HMX3031A043	4,3				
HMX3031A044	4,4				
HMX3031A045	4,5				
HMX3031A046	4,6				
HMX3031A047	4,7				
HMX3031A048	4,8	6	28	36	66
HMX3031A049	4,9				
HMX3031A050	5,0				
HMX3031A051	5,1				
HMX3031A052	5,2				
HMX3031A053	5,3				
HMX3031A054	5,4				
HMX3031A055	5,5				
HMX3031A056	5,6				
HMX3031A057	5,7				
HMX3031A058	5,8				
HMX3031A059	5,9				
HMX3031A060	6,0	8	34	36	79
HMX3031A061	6,1				
HMX3031A062	6,2				
HMX3031A063	6,3				
HMX3031A064	6,4				
HMX3031A065	6,5				
HMX3031A066	6,6				
HMX3031A067	6,7				
HMX3031A068	6,8				
HMX3031A069	6,9				
HMX3031A070	7,0	8	41	36	79
HMX3031A071	7,1				
HMX3031A072	7,2				
HMX3031A073	7,3				
HMX3031A074	7,4				
HMX3031A075	7,5				
HMX3031A076	7,6				
HMX3031A077	7,7				
HMX3031A078	7,8				
HMX3031A079	7,9				
HMX3031A080	8,0				

3031A

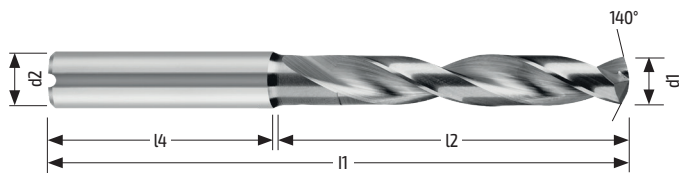
Punta 3xD con fori
3xD drill with internal coolant

140°

Balinit® X-Pro	d1 m7	d2 h6	l2	l4	l1								
HMX3031A081	8,1	10	47	40	89								
HMX3031A082	8,2												
HMX3031A083	8,3												
HMX3031A084	8,4												
HMX3031A085	8,5												
HMX3031A086	8,6												
HMX3031A087	8,7												
HMX3031A088	8,8												
HMX3031A089	8,9												
HMX3031A090	9,0												
HMX3031A091	9,1												
HMX3031A092	9,2												
HMX3031A093	9,3												
HMX3031A094	9,4												
HMX3031A095	9,5												
HMX3031A096	9,6												
HMX3031A097	9,7												
HMX3031A098	9,8												
HMX3031A099	9,9												
HMX3031A100	10,0												
HMX3031A101	10,1	12	55	45	102								
HMX3031A102	10,2												
HMX3031A103	10,3												
HMX3031A104	10,4												
HMX3031A105	10,5												
HMX3031A106	10,6												
HMX3031A107	10,7												
HMX3031A108	10,8												
HMX3031A109	10,9												
HMX3031A110	11,0												
HMX3031A111	11,1												
HMX3031A112	11,2												
HMX3031A113	11,3												
HMX3031A114	11,4												
HMX3031A115	11,5												
HMX3031A116	11,6												
HMX3031A117	11,7												
HMX3031A118	11,8												
HMX3031A119	11,9												
HMX3031A120	12,0												
HMX3031A121	12,1	14	60	45	107								
HMX3031A122	12,2												
HMX3031A125	12,5												
HMX3031A128	12,8												
HMX3031A130	13,0												
HMX3031A135	13,5												
HMX3031A138	13,8												
HMX3031A140	14,0												
HMX3031A142	14,2												
HMX3031A145	14,5												
HMX3031A148	14,8												
HMX3031A150	15,0					16	65	48	115				
HMX3031A155	15,5												
HMX3031A158	15,8												
HMX3031A160	16,0												
HMX3031A165	16,5									18	73	48	123
HMX3031A170	17,0												
HMX3031A175	17,5												
HMX3031A180	18,0												
HMX3031A185	18,5	20	79	50	131								
HMX3031A190	19,0												
HMX3031A195	19,5												
HMX3031A200	20,0												

3050A

Punta 5xD senza fori
5xD drill without internal coolant



W/N DIN
6535 HE
(On request)



140°

Balinit®
X-Pro

	d1 m7	d2 h6	l2	l4	l1						
HMX3050A003	0,3	3	1,5	-	38						
HMX3050A004	0,4		2,0								
HMX3050A005	0,5		4,0								
HMX3050A006	0,6		4,5								
HMX3050A007	0,7		5,6								
HMX3050A008	0,8		6,5								
HMX3050A009	0,9		7,0								
HMX3050A010	1,0		9								
HMX3050A011	1,1		11,5			-	38				
HMX3050A012	1,2										
HMX3050A013	1,3										
HMX3050A014	1,4										
HMX3050A015	1,5										
HMX3050A016	1,6										
HMX3050A017	1,7										
HMX3050A018	1,8										
HMX3050A019	1,9										
HMX3050A020	2,0							3	13	-	50
HMX3050A021	2,1								14		
HMX3050A022	2,2	15									
HMX3050A023	2,3	6	28	36	66						
HMX3050A024	2,4										
HMX3050A025	2,5										
HMX3050A026	2,6										
HMX3050A027	2,7										
HMX3050A028	2,8										
HMX3050A029	2,9										
HMX3050A030	3,0										
HMX3050A031	3,1										
HMX3050A032	3,2										
HMX3050A033	3,3										
HMX3050A034	3,4										
HMX3050A035	3,5										
HMX3050A036	3,6										
HMX3050A037	3,7	6	36	36	74						
HMX3050A038	3,8										
HMX3050A039	3,9										
HMX3050A040	4,0										
HMX3050A041	4,1										
HMX3050A042	4,2										
HMX3050A043	4,3										
HMX3050A044	4,4										
HMX3050A045	4,5										
HMX3050A046	4,6										
HMX3050A047	4,7										

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

10
Grafite
Graphite

3050A

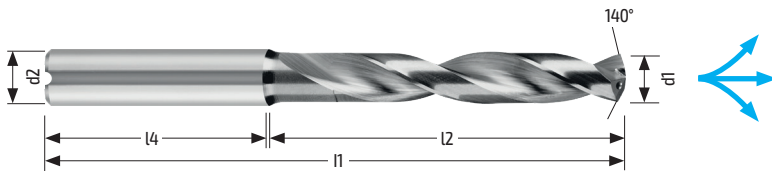
Punta 5xD senza fori
5xD drill without internal coolant

140°

Balinit® X-Pro	d1 m7	d2 h6	l2	l4	l1				
HMX3050A048	4,8	6	44	36	82				
HMX3050A049	4,9								
HMX3050A050	5,0								
HMX3050A051	5,1								
HMX3050A052	5,2								
HMX3050A053	5,3								
HMX3050A054	5,4								
HMX3050A055	5,5								
HMX3050A056	5,6								
HMX3050A057	5,7								
HMX3050A058	5,8								
HMX3050A059	5,9								
HMX3050A060	6,0								
HMX3050A061	6,1	8	53	36	91				
HMX3050A063	6,3								
HMX3050A065	6,5								
HMX3050A068	6,8								
HMX3050A069	6,9								
HMX3050A070	7,0								
HMX3050A074	7,4								
HMX3050A075	7,5								
HMX3050A078	7,8								
HMX3050A080	8,0								
HMX3050A085	8,5					10	61	40	103
HMX3050A086	8,6								
HMX3050A087	8,7								
HMX3050A088	8,8								
HMX3050A090	9,0								
HMX3050A093	9,3								
HMX3050A095	9,5								
HMX3050A098	9,8								
HMX3050A100	10,0								
HMX3050A102	10,2	12	71	45	118				
HMX3050A105	10,5								
HMX3050A106	10,6								
HMX3050A108	10,8								
HMX3050A110	11,0								
HMX3050A112	11,2								
HMX3050A115	11,5								
HMX3050A118	11,8								
HMX3050A119	11,9								
HMX3050A120	12,0								
HMX3050A122	12,2					14	77	45	124
HMX3050A125	12,5								
HMX3050A126	12,6								
HMX3050A127	12,7								
HMX3050A128	12,8								
HMX3050A130	13,0								
HMX3050A135	13,5								
HMX3050A138	13,8								
HMX3050A140	14,0								
HMX3050A145	14,5	16	83	48	133				
HMX3050A148	14,8								
HMX3050A150	15,0								
HMX3050A155	15,5								
HMX3050A158	15,8								
HMX3050A160	16,0								

3051A

Punta 5xD con fori
5xD drill with internal coolant

DIN
6537LDIN
6535 HA
(Standard)

140°

Balinit®
X-Prod1
m7d2
h6

l2

l4

l1

Balinit® X-Pro	d1 m7	d2 h6	l2	l4	l1
HMX3051A030	3,0				
HMX3051A031	3,1				
HMX3051A032	3,2				
HMX3051A033	3,3				
HMX3051A034	3,4	6	28	36	66
HMX3051A035	3,5				
HMX3051A036	3,6				
HMX3051A037	3,7				
HMX3051A038	3,8				
HMX3051A039	3,9				
HMX3051A040	4,0				
HMX3051A041	4,1				
HMX3051A042	4,2	6	36	36	74
HMX3051A043	4,3				
HMX3051A044	4,4				
HMX3051A045	4,5				
HMX3051A046	4,6				
HMX3051A047	4,7				
HMX3051A048	4,8				
HMX3051A049	4,9				
HMX3051A050	5,0				
HMX3051A051	5,1				
HMX3051A052	5,2				
HMX3051A053	5,3				
HMX3051A054	5,4	6	44	36	82
HMX3051A055	5,5				
HMX3051A056	5,6				
HMX3051A057	5,7				
HMX3051A058	5,8				
HMX3051A059	5,9				
HMX3051A060	6,0				
HMX3051A061	6,1				
HMX3051A062	6,2				
HMX3051A063	6,3				
HMX3051A064	6,4				
HMX3051A065	6,5				
HMX3051A066	6,6				
HMX3051A067	6,7				
HMX3051A068	6,8				
HMX3051A069	6,9				
HMX3051A070	7,0				
HMX3051A071	7,1	8	53	36	91
HMX3051A072	7,2				
HMX3051A073	7,3				
HMX3051A074	7,4				
HMX3051A075	7,5				
HMX3051A076	7,6				
HMX3051A077	7,7				
HMX3051A078	7,8				
HMX3051A079	7,9				
HMX3051A080	8,0				

3051A

Punta 5xD con fori
5xD drill with internal coolant

140°

Balinit® X-Pro	d1 m7	d2 h6	l2	l4	l1
HMX3051A081	8,1	10	61	40	103
HMX3051A082	8,2				
HMX3051A083	8,3				
HMX3051A084	8,4				
HMX3051A085	8,5				
HMX3051A086	8,6				
HMX3051A087	8,7				
HMX3051A088	8,8				
HMX3051A089	8,9				
HMX3051A090	9,0				
HMX3051A091	9,1				
HMX3051A092	9,2				
HMX3051A093	9,3				
HMX3051A094	9,4				
HMX3051A095	9,5				
HMX3051A096	9,6				
HMX3051A097	9,7				
HMX3051A098	9,8				
HMX3051A099	9,9				
HMX3051A100	10,0				
HMX3051A101	10,1	12	71	45	118
HMX3051A102	10,2				
HMX3051A103	10,3				
HMX3051A104	10,4				
HMX3051A105	10,5				
HMX3051A106	10,6				
HMX3051A107	10,7				
HMX3051A108	10,8				
HMX3051A109	10,9				
HMX3051A110	11,0				
HMX3051A111	11,1				
HMX3051A112	11,2				
HMX3051A113	11,3				
HMX3051A114	11,4				
HMX3051A115	11,5				
HMX3051A116	11,6				
HMX3051A117	11,7				
HMX3051A118	11,8				
HMX3051A119	11,9				
HMX3051A120	12,0				
HMX3051A122	12,2	14	77	45	124
HMX3051A123	12,3				
HMX3051A124	12,4				
HMX3051A125	12,5				
HMX3051A126	12,6				
HMX3051A127	12,7				
HMX3051A128	12,8				
HMX3051A129	12,9				
HMX3051A130	13,0				
HMX3051A131	13,1				
HMX3051A132	13,2				
HMX3051A135	13,5				
HMX3051A138	13,8				
HMX3051A140	14,0				

Notes

3051A

Punta 5xD con fori
5xD drill with internal coolant

140°

Balinit® X-Pro	d1 m7	d2 h6	l2	l4	l1
HMX3051A142	14,2	16	83	48	133
HMX3051A145	14,5				
HMX3051A148	14,8				
HMX3051A150	15,0				
HMX3051A152	15,2				
HMX3051A155	15,5				
HMX3051A158	15,8				
HMX3051A160	16,0	18	93	48	143
HMX3051A165	16,5				
HMX3051A170	17,0				
HMX3051A175	17,5				
HMX3051A180	18,0	20	101	50	153
HMX3051A185	18,5				
HMX3051A190	19,0				
HMX3051A195	19,5				
HMX3051A200	20,0				

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

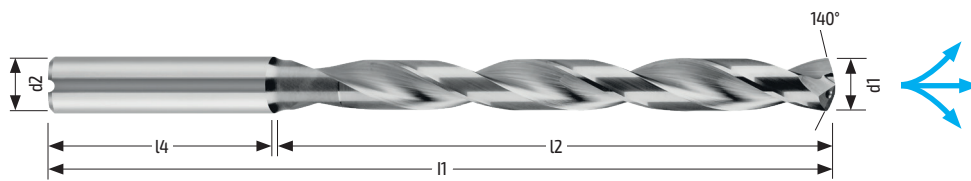
8
Superleghe
Superalloys

9
Compositi
Composite
Materials

10
Grafite
Graphite

3081A

Punta 8xD con fori
8xD drill with internal coolant



Silmax
NORM

DIN
6535 HA
(Standard)



140°

Balinit®
X-Pro

	d1 h8	d2 h6	l2	l4	l1
HMX3081A010	1,0	3	16		
HMX3081A012	1,2	3	19		
HMX3081A015	1,5	3	24	-	77
HMX3081A016	1,6	3	25		
HMX3081A018	1,8	3	28		
HMX3081A020	2,0	3	32	-	84
HMX3081A025	2,5	3	40	-	91
HMX3081A030	3,0				
HMX3081A032	3,2				
HMX3081A033	3,3	6	36	36	74
HMX3081A034	3,4				
HMX3081A035	3,5				
HMX3081A040	4,0				
HMX3081A042	4,2				
HMX3081A043	4,3	6	57	36	82
HMX3081A045	4,5				
HMX3081A048	4,8				
HMX3081A050	5,0				
HMX3081A051	5,1				
HMX3081A055	5,5	6	57	36	95
HMX3081A058	5,8				
HMX3081A060	6,0				
HMX3081A061	6,1				
HMX3081A063	6,3				
HMX3081A065	6,5				
HMX3081A066	6,6				
HMX3081A068	6,8				
HMX3081A069	6,9	8	76	36	114
HMX3081A070	7,0				
HMX3081A075	7,5				
HMX3081A078	7,8				
HMX3081A080	8,0				
HMX3081A085	8,5				
HMX3081A087	8,7				
HMX3081A090	9,0				
HMX3081A093	9,3	10	96	40	138
HMX3081A095	9,5				
HMX3081A098	9,8				
HMX3081A100	10,0				
HMX3081A103	10,3				
HMX3081A105	10,5				
HMX3081A110	11,0				
HMX3081A114	11,4	12	115	45	162
HMX3081A115	11,5				
HMX3081A119	11,9				
HMX3081A120	12,0				
HMX3081A125	12,5				
HMX3081A130	13,0				
HMX3081A135	13,5	14	134	45	181
HMX3081A140	14,0				
HMX3081A145	14,5				
HMX3081A150	15,0	16	153	48	203
HMX3081A160	16,0				

Punte per foratura manuale di pannelli CFRP e sandwich Titanio/Alluminio

Manual drill for CFRP panels and Titanium/Aluminium sandwiches



Caratteristiche Geometriche

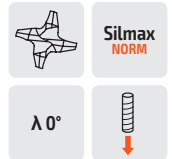
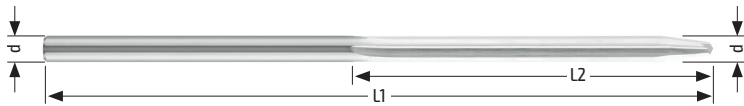
Geometria frontale sviluppata in particolare per la foratura manuale. Garantisce un grado di finitura eccezionale eliminando i fenomeni di delaminazione. Utensile particolarmente indicato per la lavorazione dei materiali compositi a base di carbonio di difficile lavorabilità.

Geometrical Features

Front geometry specifically developed for manual drilling. It ensures an exceptional finishing grade, preventing delamination. A tool that is particularly suitable for machining carbon-based composite materials of difficult machinability.

780

Punte per foratura manuale di pannelli CFRP e sandwich Titanio/Alluminio
Manual drill for CFRP panels and Titanium/Aluminium sandwiches



9



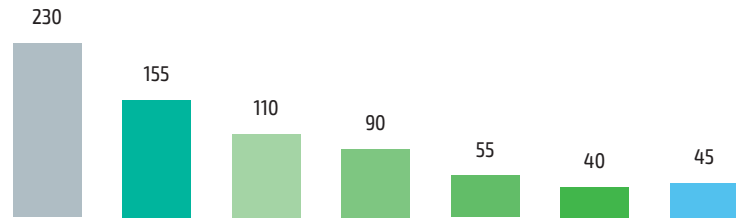
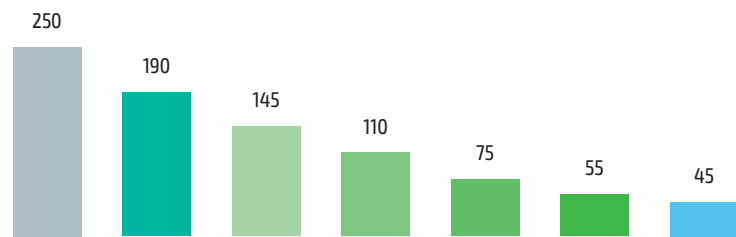
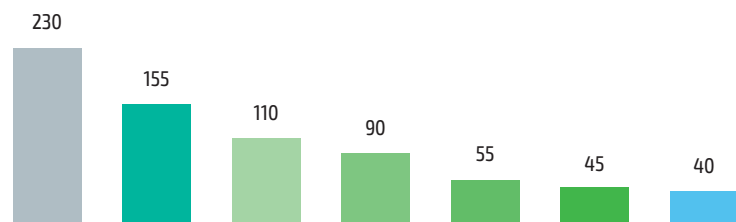
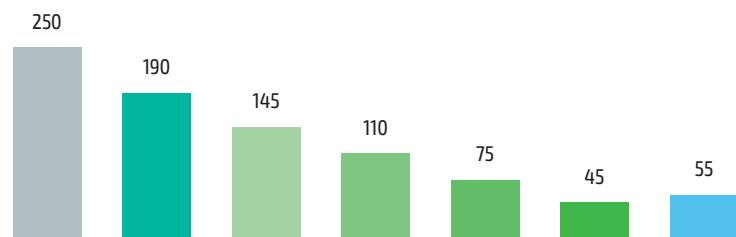
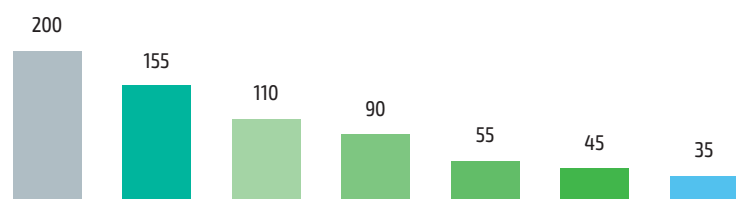
D h6	d h6	L	l2 ap	Z	Non rivestito Uncoated
2,00	2,00	100	50,0	4	HMO780020
2,48	2,48	100	50,0	4	HMO780024
3,00	3,00	100	50,0	4	HMO780030
3,17	3,17	100	50,0	4	HMO780031
4,00	4,00	100	50,0	4	HMO780040
4,21	4,21	100	50,0	4	HMO780042
4,82	4,82	100	50,0	4	HMO780048
5,05	5,05	100	50,0	4	HMO780050
5,53	5,53	100	50,0	4	HMO780055
6,00	6,00	100	50,0	4	HMO780060
6,35	6,35	100	50,0	4	HMO780063
6,60	6,60	100	50,0	4	HMO780066
7,00	7,00	100	50,0	4	HMO780070
7,92	7,92	100	50,0	4	HMO780079
8,00	8,00	100	50,0	4	HMO780080
8,63	8,63	100	50,0	4	HMO780086
9,00	9,00	100	50,0	4	HMO780090
10,00	10,00	100	50,0	4	HMO780100
12,00	12,00	100	50,0	4	HMO780120

Notes

Parametri di lavoro / Working Parameters



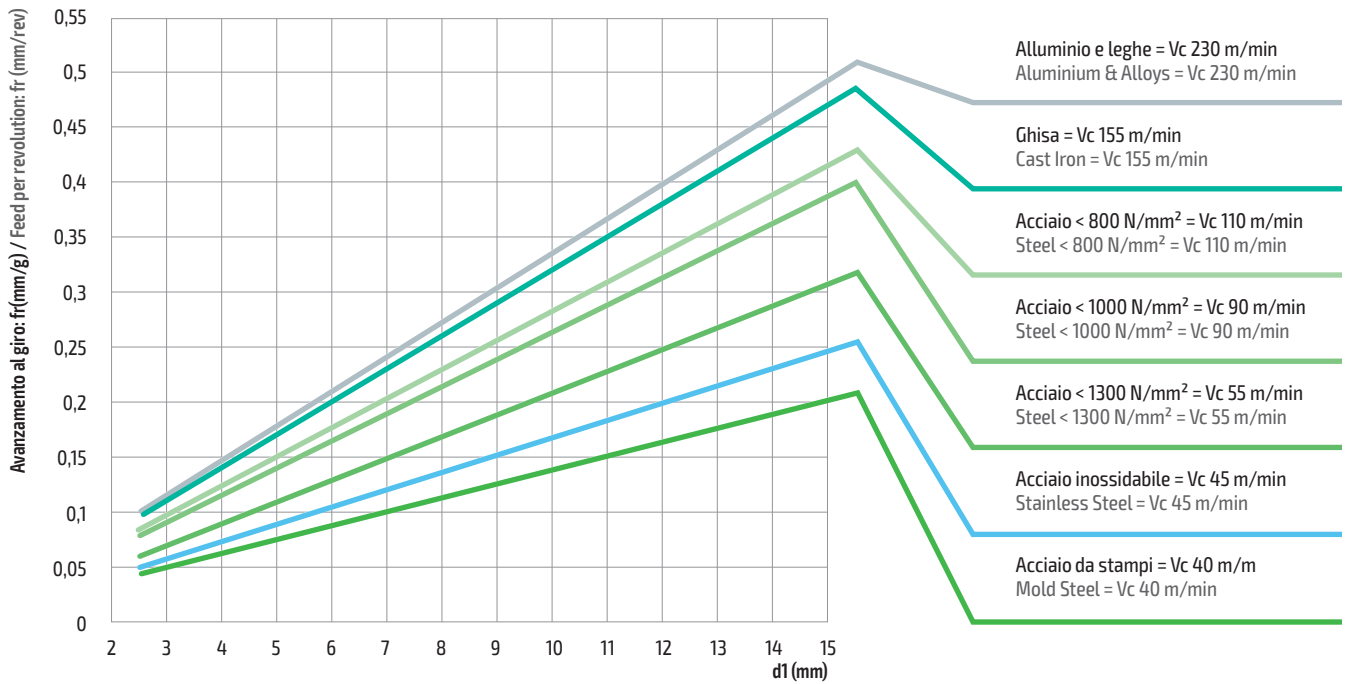
Vc[m/min]

**3030A****3031A****3050A****3051A****3081A**

Notes

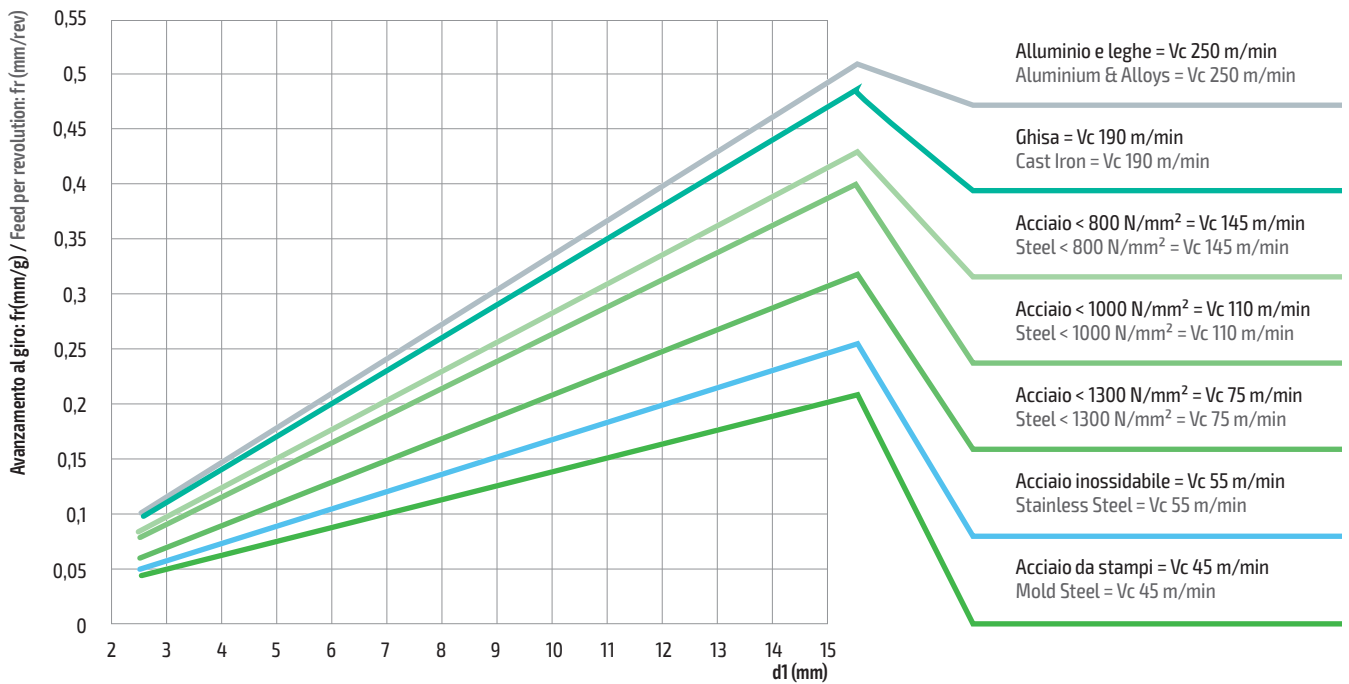
3030A

Parametri di lavoro / Working Parameters



3031A

Parametri di lavoro / Working Parameters



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

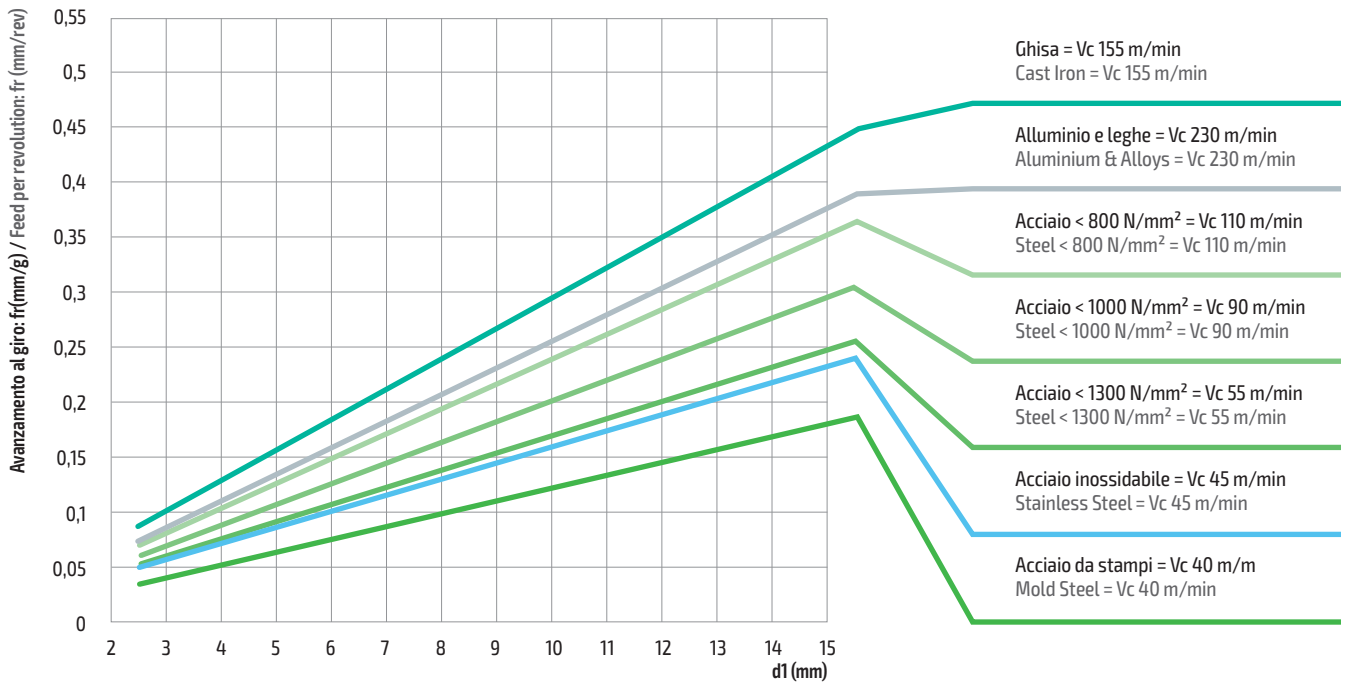
8 Superleghe
Superalloys

9 Compositi
Composite
Materials

10 Grafite
Graphite

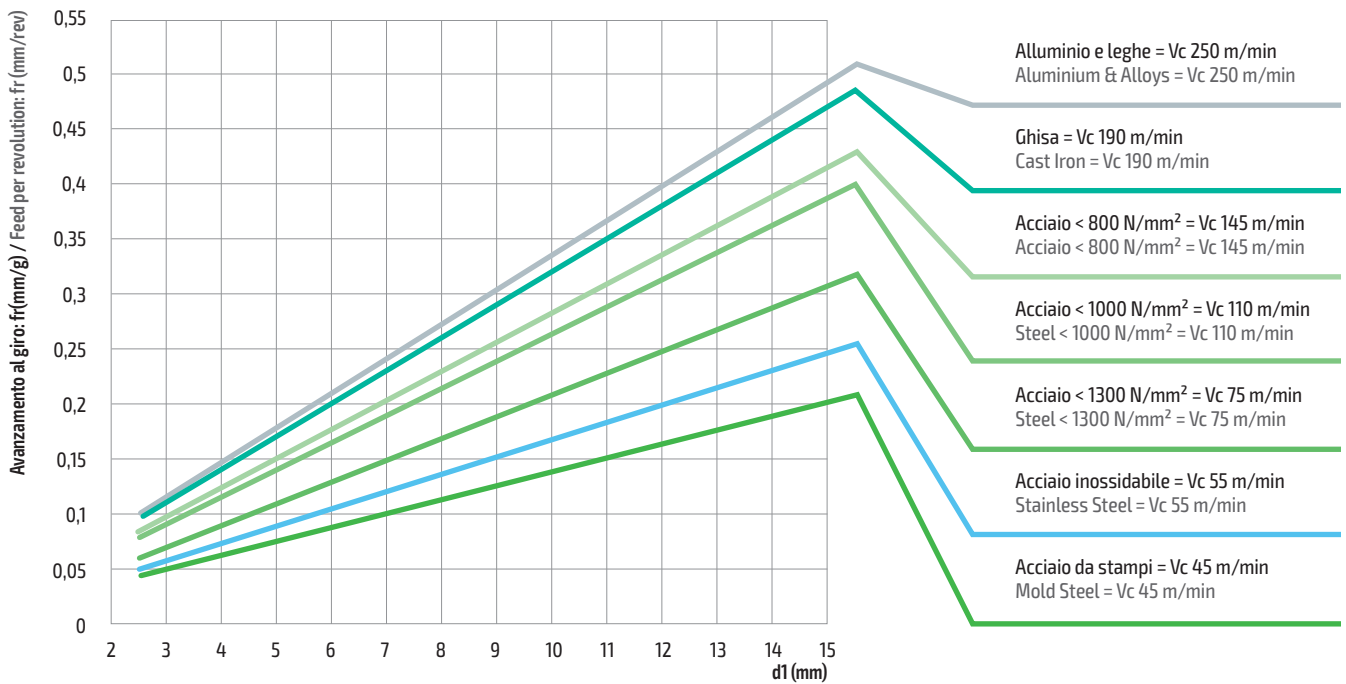
3050A

Parametri di lavoro / Working Parameters



3051A

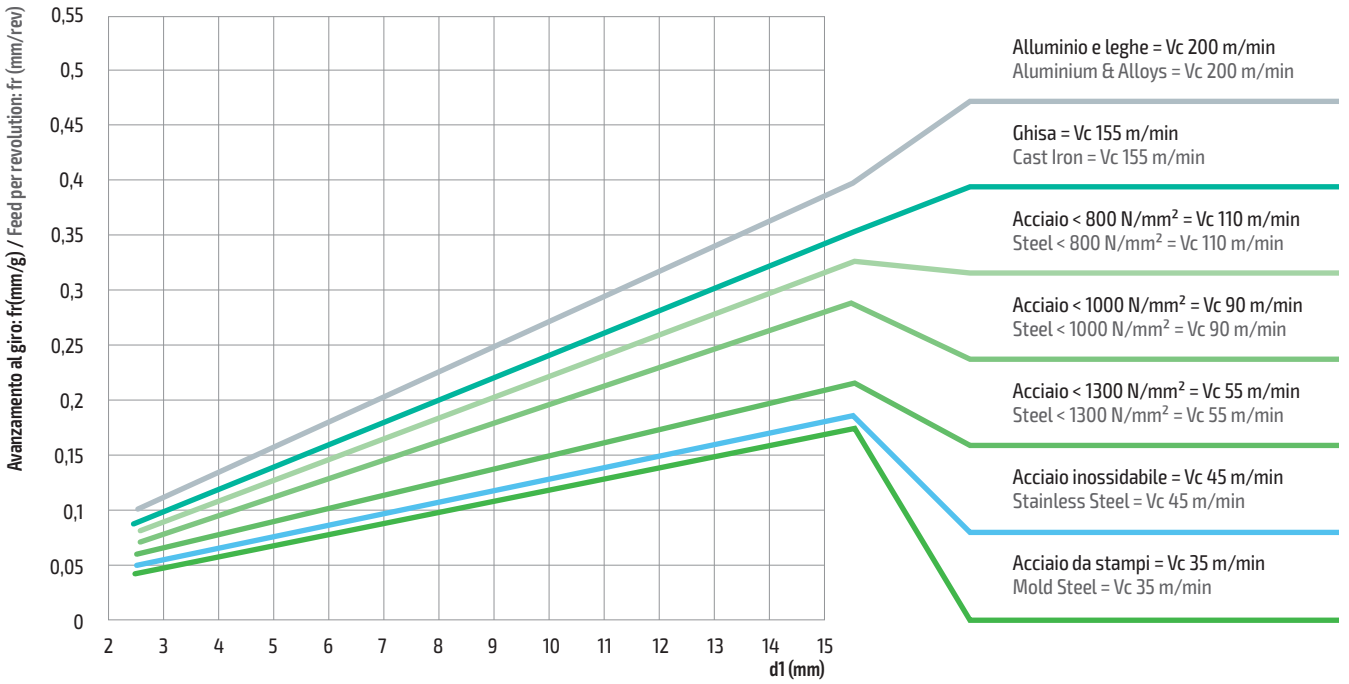
Parametri di lavoro / Working Parameters



Notes

3081A

Parametri di lavoro / Working Parameters



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

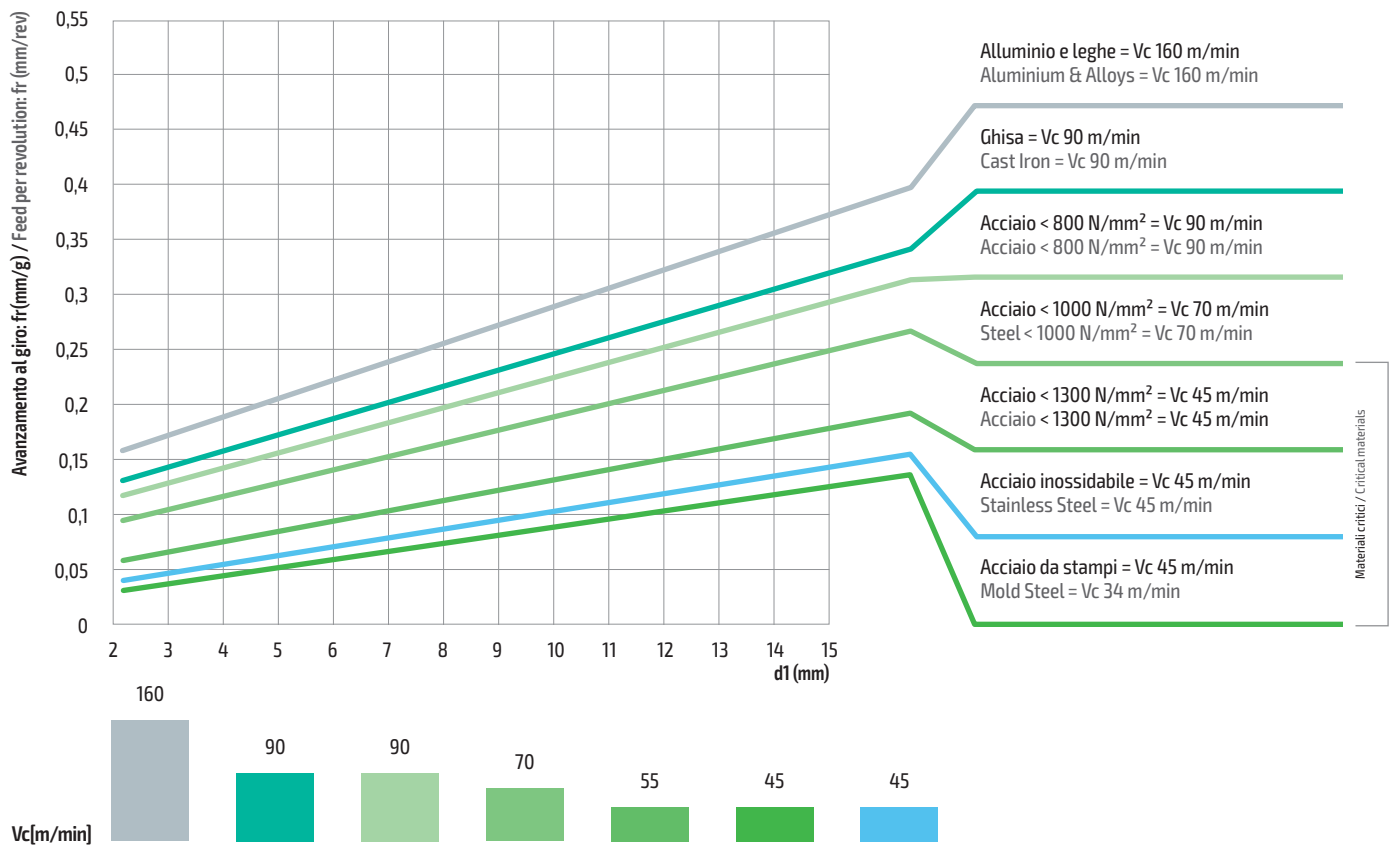
9 Compositi
Composite
Materials

10 Grafite
Graphite

PUNTE A GRADINO STEP DRILLS

Scelta dell'utensile / Choice of the tool

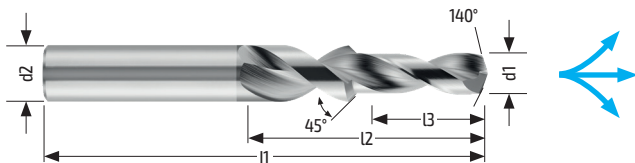
		P	d1 (max)	d1 (Standard Material)	d1 (* Critical Material)
ISO	M4	0,70	3,42	3,30	3,40
	M5	0,80	4,33	4,20	4,30
	M6	1,00	5,15	5,00	5,10
	M8	1,25	6,91	6,80	6,90
	M10	1,50	8,68	8,50	8,65
	M12	1,75	10,44	10,25	10,40
UNC	1/4	20,00	5,26	5,10	-
	3/8	16,00	8,15	7,90	-
	1/2	13,00	11,02	10,50	-



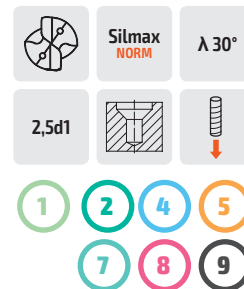
Notes

3825

Punta per prefiori di maschiatura ad esecuzione dello smusso con fori di lubrificazione
Step drill for core drill sizes for taps with internal coolant



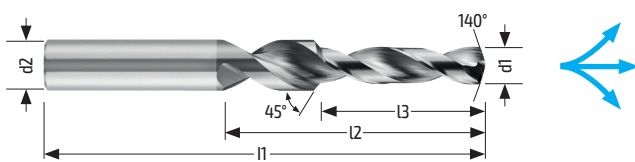
Con fori di lubrificazione / With internal coolant



140°	FIL	FIL	d1	d2	l1	l2	l3	Balinit®
	ISO	UNC	m7	h6				X-Pro
	M4	-	3,30	6	64	23	10	HMX382510330
	M4*	-	3,40	6	64	23	10	HMX382510340
	M5	-	4,20	6	64	26	13	HMX382510420
	M5*	-	4,30	6	64	26	13	HMX382510430
	M6	-	5,00	8	74	32	15	HMX382510500
	M6*	1/4-20	5,10	8	74	32	15	HMX382510510
	M8	-	6,80	10	90	42	20	HMX382510680
	M8*	-	6,90	10	90	42	20	HMX382510690
	-	3/8-16	7,90	12	105	50	24	HMX382510790
	M10	-	8,50	12	105	51	25	HMX382510850
	M10*	-	8,65	12	105	51	25	HMX382510865
	M12	-	10,25	14	107	60	30	HMX382511025
	M12*	-	10,40	14	107	60	30	HMX382511040
	-	1/2-13	10,50	14	120	62	32	HMX382511050

3835

Punta per prefiori di maschiatura ad esecuzione dello smusso con fori di lubrificazione
Step drill for core drill sizes for taps with internal coolant



Con fori di lubrificazione / With internal coolant



140°	FIL	FIL	d1	d2	l1	l2	l3	Balinit®
	ISO	UNC	m7	h6				X-Pro
	M4	-	3,30	6	64	27	14	HMX383510330
	M4*	-	3,40	6	64	27	14	HMX383510340
	M5	-	4,20	6	68	31	18	HMX383510420
	M5*	-	4,30	6	68	31	18	HMX383510430
	M6	-	5,00	8	78	38	21	HMX383510500
	M6*	1/4-20	5,10	8	78	38	21	HMX383510510
	M8	-	6,80	10	98	50	28	HMX383510680
	M8*	-	6,90	10	98	50	28	HMX383510690
	-	3/8 - 16	7,90	12	107	60	34	HMX383510790
	M10	-	8,50	12	107	61	35	HMX383510850
	M10*	-	8,65	12	107	61	35	HMX383510865
	M12	-	10,25	14	120	72	42	HMX383511025
	M12*	-	10,40	14	120	72	42	HMX383511040
	-	1/2-13	10,50	14	127	75	45	HMX383511050

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

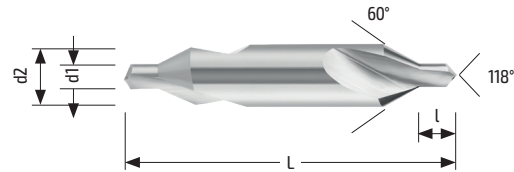
9 Compositi
Composite
Materials


10 Grafite
Graphite

PUNTE A CENTRARE CENTER DRILLS

351

Punta a centrare
Center drill

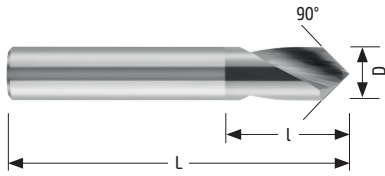


DIN 333A  Form A λ 0°

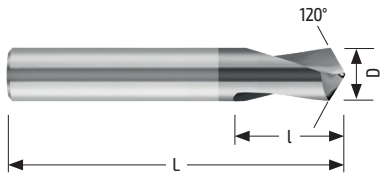


d1 k12	d2 h6	L	l ap	Non rivestito Uncoated	Balinit Alcrona®
1,00	3,15	31	1,3-1,6	HMO351100	HMG351100
1,25	3,15	31	1,6-1,9	HMO351125	HMG351125
1,60	4,00	35	2,0-2,4	HMO351160	HMG351160
2,00	5,00	40	2,5-2,9	HMO351200	HMG351200
2,50	6,30	45	3,1-3,6	HMO351250	HMG351250
3,15	8,00	50	3,9-4,4	HMO351315	HMG351315
4,00	10,00	55	5,0-5,6	HMO351400	HMG351400
5,00	12,50	63	6,3-6,9	HMO351500	HMG351500

Notes

357**Punta a centrare**
Center drill

D h6	L	l ap	Non rivestito Uncoated	Balinit Alcra®
3,00	45	10,0	HMO357003	HMG357003
4,00	50	12,0	HMO357004	HMG357004
5,00	50	15,0	HMO357005	HMG357005
6,00	50	18,0	HMO357006	HMG357006
8,00	64	23,0	HMO357008	HMG357008
10,00	67	24,0	HMO357010	HMG357010
12,00	74	24,0	HMO357012	HMG357012
16,00	92	32,0	HMO357016	HMG357016

358**Punta a centrare**
Center drill

D h6	L	l ap	Non rivestito Uncoated	Balinit Alcra®
3,00	45	10,0	HMO358003	HMG358003
4,00	50	12,0	HMO358004	HMG358004
5,00	50	15,0	HMO358005	HMG358005
6,00	50	18,0	HMO358006	HMG358006
8,00	64	23,0	HMO358008	HMG358008
10,00	67	24,0	HMO358010	HMG358010
12,00	74	24,0	HMO358012	HMG358012

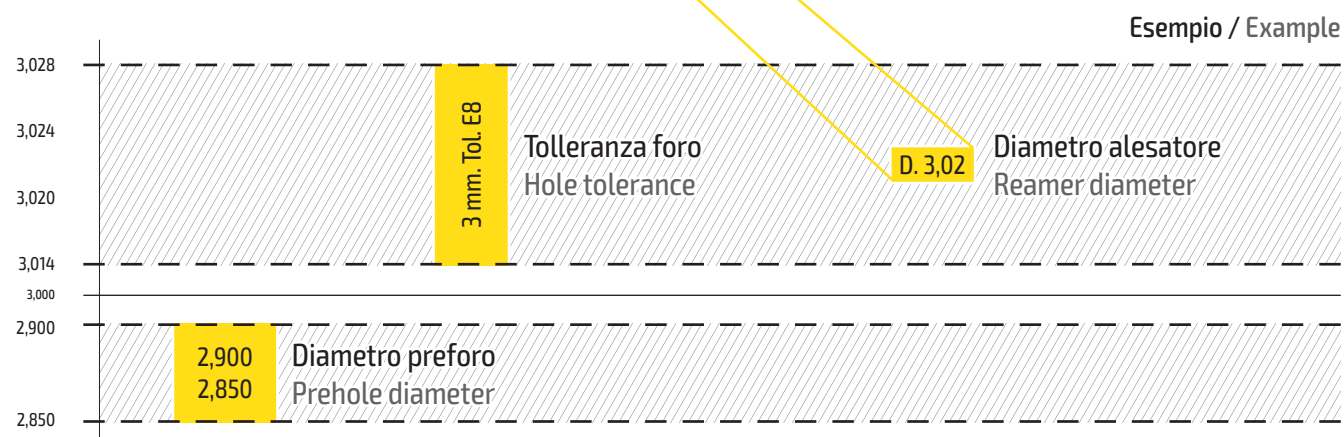
1
Acciaio
Steel**2**
Ghise
Cast
Iron**3**
Acciai
Temprati
Hardened
Steel**4**
Acciaio
Inox
Stainless
Steel**5**
Titanio
Titanium**6**
Leghe
Leggere
Light
Alloys**7**
PH
Duplex**8**
Superleghe
Superalloys**9**
Compositi
Composite
Materials**10**
Grafite
Graphite

ALESATORI CENTESIMALI REAMERS

503

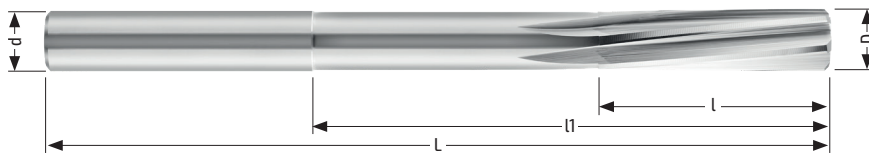
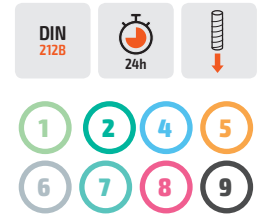
Scelta dell'alesatore / Choice of the reamer

Toll.	D. 2 mm	D. 3 mm	D. 4 mm	D. 5 mm	D. 6 mm	D. 8 mm	D. 10 mm	D. 12 mm
D10	2,04	3,04	4,05	5,06	6,06	8,07	10,08	12,10
E8	2,02	3,02	4,03	5,03	6,03	8,03	10,03	12,04
E9	2,03	3,03	4,04	5,04	6,04	8,05	10,05	12,06
F7	2,01	3,01	4,01	5,01	6,01	8,02	10,02	12,02
F8	2,01	3,01	4,02	5,02	6,02	8,02	10,02	12,03
G7	-	-	-	-	-	8,01	10,01	12,01
H6	2,00	3,00	4,00	5,00	6,00	8,00	10,00	12,00
H7	-	-	-	-	-	-	-	-
H8	-	-	4,01	5,01	6,01	8,01	10,01	12,01
H9	2,01	3,01	4,02	5,02	6,02	8,02	10,02	12,03
M7	1,99	2,99	3,99	4,99	5,99	7,99	9,99	11,99
N7	1,99	2,99	3,99	4,99	5,99	7,98	9,98	11,98
P7	1,99	2,99	3,98	4,98	5,98	7,98	9,98	11,97
R7	1,98	2,98	3,98	4,98	5,98	7,98	9,98	11,97



f/giro f/rpm	Vc m/min	20-25	12-18	10-15	7-12	6-10	25-30	40-60
			Acciaio / Steel <800 N/mm ²	Acciaio / Steel <1000 N/mm ²	Acciaio / Steel <1300 N/mm ²	Acciaio inossidabile Stainless Steel	Superleghe Superalloys	Rame e leghe Copper & Alloys
D.2 mm		0,10	0,08	0,08	0,07	0,07	0,12	0,15
D.6 mm		0,12	0,10	0,09	0,08	0,10	0,18	0,18
D.10 mm		0,18	0,15	0,14	0,12	0,12	0,20	0,25
D.16 mm		0,18	0,20	0,18	0,15	0,15	0,25	0,30

Notes

503Alesatore centesimale
Reamer

D	Tolerance	d	l	L	l1	Z	Non rivestito Uncoated	Balinit® Alcrona
0,90 ÷ 0,99 (× 0,01 mm)	+0,004/+0	D	8	40	-	4	HM0503...	HMG503...
1,00 ÷ 1,50 (× 0,01 mm)	+0,004/+0	D	8	40	-	4	HM0503...	HMG503...
1,51 ÷ 1,90 (× 0,01 mm)	+0,004/+0	D	9	43	-	4	HM0503...	HMG503...
1,91 ÷ 2,12 (× 0,01 mm)	+0,004/+0	2,0	11	49	26	4	HM0503...	HMG503...
2,13 ÷ 2,36 (× 0,01 mm)	+0,004/+0	2,0	12	53	-	4	HM0503...	HMG503...
2,37 ÷ 2,48 (× 0,01 mm)	+0,004/+0	2,3	14	57	-	4	HM0503...	HMG503...
2,49 ÷ 2,65 (× 0,01 mm)	+0,004/+0	2,5	14	57	-	4	HM0503...	HMG503...
2,66 ÷ 2,96 (× 0,01 mm)	+0,004/+0	2,5	15	61	-	4	HM0503...	HMG503...
2,97 ÷ 3,35 (× 0,01 mm)	+0,004/+0	3,0	16	65	40	4	HM0503...	HMG503...
3,36 ÷ 3,75 (× 0,01 mm)	+0,004/+0	3,5	18	70	45	4	HM0503...	HMG503...
3,76 ÷ 4,02 (× 0,01 mm)	+0,004/+0	4,0	19	75	46	6	HM0503...	HMG503...
4,03 ÷ 4,25 (× 0,01 mm)	+0,004/+0	4,0	19	80	46	6	HM0503...	HMG503...
4,26 ÷ 4,52 (× 0,01 mm)	+0,004/+0	4,5	21	80	46	6	HM0503...	HMG503...
4,53 ÷ 4,75 (× 0,01 mm)	+0,004/+0	5,0	21	86	51	6	HM0503...	HMG503...
4,76 ÷ 5,02 (× 0,01 mm)	+0,004/+0	5,0	23	86	51	6	HM0503...	HMG503...
5,03 ÷ 5,52 (× 0,01 mm)	+0,004/+0	5,5	26	93	56	6	HM0503...	HMG503...
5,53 ÷ 6,00 (× 0,01 mm)	+0,004/+0	6,0	26	93	56	6	HM0503...	HMG503...
6,01 ÷ 6,52 (× 0,01 mm)	+0,005/+0	6,0	28	100	63	6	HM0503...	HMG503...
6,53 ÷ 6,70 (× 0,01 mm)	+0,005/+0	6,0	28	100	63	6	HM0503...	HMG503...
6,71 ÷ 7,02 (× 0,01 mm)	+0,005/+0	7,0	31	109	68	6	HM0503...	HMG503...
7,03 ÷ 7,50 (× 0,01 mm)	+0,005/+0	7,0	31	109	68	6	HM0503...	HMG503...
7,51 ÷ 8,02 (× 0,01 mm)	+0,005/+0	8,0	33	117	74	6	HM0503...	HMG503...
8,03 ÷ 8,50 (× 0,01 mm)	+0,005/+0	8,0	33	117	74	6	HM0503...	HMG503...
8,51 ÷ 9,02 (× 0,01 mm)	+0,005/+0	9,0	36	125	80	6	HM0503...	HMG503...
9,03 ÷ 9,50 (× 0,01 mm)	+0,005/+0	9,0	36	125	80	6	HM0503...	HMG503...
9,51 ÷ 10,02 (× 0,01 mm)	+0,005/+0	10,0	38	133	86	6	HM0503...	HMG503...
10,03 ÷ 10,60 (× 0,01 mm)	+0,005/+0	10,0	38	133	86	6	HM0503...	HMG503...
10,61 ÷ 11,47 (× 0,01 mm)	+0,005/+0	10,0	41	142	95	6	HM0503...	HMG503...
11,48 ÷ 12,02 (× 0,01 mm)	+0,005/+0	12,0	44	150	103	6	HM0503...	HMG503...
12,03 ÷ 12,47 (× 0,01 mm)	+0,005/+0	12,0	44	151	104	6	HM0503...	HMG503...

Come ordinare (esempio)

How to order (example)

Rivestimento

Coating

HMG

Codice

Code

503

Diametro

Diameter

0403 (= 4,03mm)

Codice per ordine

Code to place order

HMG5030403**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**10**
Grafite
Graphite

SIL SERVICE



Riaffilatura e rigenerazione: da usato a nuovo

Silmax è in grado di riaffilare e/o rigenerare **come nuove** frese, punte e alesatori, nelle versioni normali e speciali, utilizzando **gli stessi impianti di produzione a 5 assi**.

Re-sharpening and re-conditioning: from used to new.

Silmax can re-sharpen and/or re-condition **like new** standard and special end mills, drills and reamers **using the same 5-axis plants**.



Esecuzione perfetta

Esecuzione perfetta con la garanzia del produttore e collaudo effettuato su strumenti di controllo di alta precisione Zoller Genius e Walter Helicheck con emissione di certificato su richiesta.

Perfect execution

A perfect execution with the manufacturer's warranty and testing carried out with high-precision measurement instruments of Zoller Genius and Walter Helicheck, with issuing of certificate on request.



Rivestimento PVD

Rivestimento PVD eseguito nel nostro centro di rivestimento interno in Lanzo Torinese con la tecnologia Balzers sia per HSS che HM come Alcrona, Futura, Alnova, Latuma e TiN.

PVD Coating

PVD coating in our in-house coating centre in Lanzo Torinese is carried out using Balzers technology, such as Alcrona, Futura, Alnova, Latuma e TiN, both for HSS and HM tools.



Trattamento 4S

Trattamento 4S di super finitura superficiale del filo tagliente pre e post rivestimento, eseguito con impianto OTEC e verificato con strumento di misura Alicona.

4S Treatment

4S super-finishing surface treatment of cutting edge before and after the coating process, is carried out using an OTEC system and checked with an Alicona measuring instrument.



Consegna rapida

Consegna rapida entro 10 giorni lavorativi dal ricevimento degli utensili per riaffilatura e rivestimento.

Per diametri non a catalogo consegna entro due settimane.

Fast delivery

Fast delivery within 10 working days from receipt of tools for resharpener and coating.

For diameters not included in the brochure, the delivery will be within 2 weeks.

QUALITY AS A STANDARD

Un'azienda italiana produttrice di utensili da taglio, con una lunga storia e una forte propensione all'innovazione grazie a moderni impianti e tecnologie di ultime generazioni.

Da oltre 50 anni Silmax si distingue per **precisione, passione e puntualità**

An Italian Company, producing cutting tools, with a long history and strong propensity to innovation thanks to modern and last generation technology.

Since 50 years Silmax is known for **precision, passion and punctuality**.



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