
maykestag
PERFORMANCE
IN PRECISION

VHM-Fräser

Solid carbide milling cutters
Frese in metallo duro integrale

INFORMATION	TurboCut			
Die Schnittwerte für alle Werkzeuge entnehmen Sie bitte unserem MaySpeedGuide. You will find the cutting conditions for all tools in our MaySpeedGuide. Per i parametri di lavorazione per tutti gli utensili richiedete il MaySpeedGuide.				
Norm / Standard	DIN 6527 K			
Typ / Type / Tipo	N	N	N	N
Länge / Length / Lunghezza	kurz	kurz	kurz	kurz
Schneidenanzahl / No. of flutes / Nr. denti	4	4	4	4
Kopfform / Head type / Tipo di testa	45°	45°	45°	45°
Drallwinkel / Spiral angle / Anglo elica	41° - 43°	41° - 43°	41° - 43°	41° - 43°
Schaftform / Shank type / Forma codolo	DIN 6535-HA	DIN 6535-HB	DIN 6535-HA	DIN 6535-HB
Kühlkanäle / Coolant supply / Fori lubrificazione	nein / no / no	nein / no / no	nein / no / no	nein / no / no
Beschichtung / Coating / Rivestimento	MAXDUR	MAXDUR	MAXDUR	MAXDUR
Ø mm	3 - 25 mm	3 - 25 mm	3 - 25 mm	3 - 25 mm
Code / Codice	8012	8112	8022	8122
Seite / Page / Pagina	53	53	54	54
Geeignet für / Suitable for / Adatte per				
<400 N/mm² Stähle < 400 N/mm² Steels < 400 N/mm² Acciai < 400 N/mm²	■■■■	■■■■	■■■■	■■■■
<850 N/mm² Stähle < 850 N/mm² Steels < 850 N/mm² Acciai < 850 N/mm²	■■■■	■■■■	■■■■	■■■■
<1100 N/mm² Stähle < 1.100 N/mm² Steels < 1.100 N/mm² Acciai < 1.100 N/mm²	■■■■	■■■■	■■■■	■■■■
<1300 N/mm² Stähle < 1.300 N/mm² Steels < 1.300 N/mm² Acciai < 1.300 N/mm²	■■■■	■■■■	■■■■	■■■■
<45 HRC Stähle > 45 HRC Steels > 45 HRC Acciai > 45 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC
INOX <850 N/mm² Rostfreie Stähle < 850 N/mm² Stainless steels < 850 N/mm² Acciai inossidabili < 850 N/mm²	■■■■	■■■■	■■■■	■■■■
INOX >850 N/mm² Rostfreie Stähle > 850 N/mm² Stainless steels > 850 N/mm² Acciai inossidabili > 850 N/mm²	■■■■	■■■■	■■■■	■■■■
GRAUGUSS CAST IRON GHISA GRIGIA Grauguss, Temperguss Cast iron, malleable cast iron Ghisa grigia, ghisa malleabile	■■■■	■■■■	■■■■	■■■■
Ni Nickel Nickel Nickel				
Ti Titan- und Titanlegierung Titanium and titanium alloys Titanio e leghe di Titanio	■■□□	■■□□	■■□□	■■□□
Cu,Ms Kupfer, Messing Copper, brass Rame, ottone	■■■□	■■■□	■■■□	■■■□
Al Aluminium Aluminum Alluminio	■■□□	■■□□	■■□□	■■□□
Kunststoffe Plastics Materie plastiche				

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

TurboCut				TurboCut	
					
DIN 6527 L				WN	WN
N	N	N	N	N	N
lang	lang	lang	lang	XXL	XXL
4	4	4	4	4	4
45°	45°	45°	45°	45°	45°
41° - 43°	41° - 43°	41° - 43°	41° - 43°	41° - 43°	41° - 43°
DIN 6535-HA	DIN 6535-HB	DIN 6535-HA	DIN 6535-HB	DIN 6535-HA	DIN 6535-HB
nein / no / no	nein / no / no	nein / no / no	nein / no / no	ja / yes / si	ja / yes / si
MAXDUR	MAXDUR	MAXDUR	MAXDUR	MAXDUR	MAXDUR
3 - 25 mm	3 - 25 mm	3 - 25 mm	3 - 25 mm	6 - 16 mm	6 - 16 mm
8013	8113	8023	8123	8025	8125
55	55	56	56	57	57
■■■■	■■■■	■■■■	■■■■	■■■■	■■■■
■■■■	■■■■	■■■■	■■■■	■■■■	■■■■
■■■■	■■■■	■■■■	■■■■	■■■■	■■■■
■■■■	■■■■	■■■■	■■■■	■■■■	■■■■
■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC
■■■■	■■■■	■■■■	■■■■	■■■■	■■■■
■■■■	■■■■	■■■■	■■■■	■■■■	■■■■
■■■■	■■■■	■■■■	■■■■	■■■■	■■■■
■■□□	■■□□	■■□□	■■□□	■■□□	■■□□
■■■□	■■■□	■■■□	■■■□	■■■□	■■■□
■■□□	■■□□	■■□□	■■□□	■■□□	■■□□

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

INFORMATION	Speedcut	Speedcut	Speedcut 4.0	Speedcut 4.0
Die Schnittwerte für alle Werkzeuge entnehmen Sie bitte unserem MaySpeedGuide. You will find the cutting conditions for all tools in our MaySpeedGuide. Per i parametri di lavorazione per tutti gli utensili richiedete il MaySpeedGuide.				
Norm / Standard	DIN 6527 K	WN	DIN 6527 L	DIN 6527 K
Typ / Type / Tipo	N	N	N	N
Länge / Length / Lunghezza	kurz-freigestellt	lang-freigestellt	kurz	kurz
Schneidenanzahl / No. of flutes / Nr. denti	3	3	4	4
Kopfform / Head type / Tipo di testa				
Drallwinkel / Spiral angle / Anglo elica	34° - 36°	34° - 36°	35° - 38°	35° - 38°
Schaftform / Shank type / Forma codolo	DIN 6535-HA	DIN 6535-HA	DIN 6535-HA	DIN 6535-HB
Kühlkanäle / Coolant supply / Fori lubrificazione	nein / no / no	nein / no / no	nein / no / no	nein / no / no
Beschichtung / Coating / Rivestimento	ALUNIT-S®	ALUNIT-S®	TWINDUR	TWINDUR
Ø mm	2 - 10 mm	3 - 10 mm	3 - 20 mm	3 - 20 mm
Code / Codice	7367	7377	8207	8707
Seite / Page / Pagina	58	59	60	60
Geeignet für / Suitable for / Adatte per				
Stähle < 400 N/mm² Steels < 400 N/mm² Acciai < 400 N/mm²	■■■■	■■■■	■■■■	■■■■
Stähle < 850 N/mm² Steels < 850 N/mm² Acciai < 850 N/mm²	■■■■	■■■■	■■■■	■■■■
Stähle < 1.100 N/mm² Steels < 1.100 N/mm² Acciai < 1.100 N/mm²	■■■■	■■■■	■■■■	■■■■
Stähle < 1.300 N/mm² Steels < 1.300 N/mm² Acciai < 1.300 N/mm²	■■■□	■■■□	■■■□	■■■□
Stähle > 45 HRC Steels > 45 HRC Acciai > 45 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC
Rostfreie Stähle < 850 N/mm² Stainless steels < 850 N/mm² Acciai inossidabili < 850 N/mm²	■■■□	■■■□	■■■□	■■■□
Rostfreie Stähle > 850 N/mm² Stainless steels > 850 N/mm² Acciai inossidabili > 850 N/mm²	■■□□	■■□□	■■□□	■■□□
Grauguss, Temperguss Cast iron, malleable cast iron Ghisa grigia, ghisa malleabile	■■■■	■■■■	■■■■	■■■■
Nickel Nickel Nickel				
Titan- und Titanlegierung Titanium and titanium alloys Titanio e leghe di Titanio				
Kupfer, Messing Copper, brass Rame, ottone	■■□□	■■□□	■■□□	■■□□
Aluminium Aluminum Alluminio	■■□□	■■□□	■■□□	■■□□
Kunststoffe Plastics Materie plastiche				

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

Speedcut		Speedcut 4.0		Speedcut
				
DIN 6527 K		DIN 6527 L		
N	N	N	N	N
kurz-freigestellt	kurz-freigestellt	lang	lang	lang
4	4	3 - 4	3 - 4	4
45°	45°	45°	45°	45°
35° - 38°	35° - 38°	35° - 38°	35° - 38°	35° - 38°
DIN 6535-HA	DIN 6535-HB	DIN 6535-HA	DIN 6535-HB	DIN 6535-HA
nein / no / no	nein / no / no	nein / no / no	nein / no / no	nein / no / no
ALUNIT-S®	ALUNIT-S®	TWINDUR	TWINDUR	ALUNIT-S®
3 - 20 mm	3 - 20 mm	2 - 20 mm	3 - 20 mm	2 - 20 mm
7387	7487	8217	8717	7217
61	61	62	62	63
■■■■	■■■■	■■■■	■■■■	■■■■
■■■■	■■■■	■■■■	■■■■	■■■■
■■■■	■■■■	■■■■	■■■■	■■■■
■■■□	■■■□	■■■□	■■■□	■■■□
■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC
■■□□	■■□□	■■■□	■■■□	■■□□
■■□□	■■□□	■■□□	■■□□	■■□□
■■■■	■■■■	■■■■	■■■■	■■■■
■■□□	■■□□	■■□□	■■□□	■■□□
■■□□	■■□□	■■□□	■■□□	■■□□

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

INFORMATION	Speedcut	Speedcut 4.0		
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Norm / Standard	DIN 6527 L			
Typ / Type / Tipo	N	N	N	N
Länge / Length / Lunghezza	lang	lang-freigestellt	lang-freigestellt	lang-freigestellt
Schneidenanzahl / No. of flutes / Nr. denti	4	4	4	4
Kopfform / Head type / Tipo di testa				
Drallwinkel / Spiral angle / Anglo elica	35° - 38°	35° - 38°	35° - 38°	35° - 38°
Schaftform / Shank type / Forma codolo	DIN 6535-HB	DIN 6535-HA	DIN 6535-HB	DIN 6535-HA
Kühlkanäle / Coolant supply / Fori lubrificazione	nein / no / no	ja / yes / si	ja / yes / si	nein / no / no
Beschichtung / Coating / Rivestimento	ALUNIT-S®	TWINDUR	TWINDUR	TWINDUR
Ø mm	3 - 20 mm	6 - 20 mm	6 - 20 mm	3 - 20 mm
Code / Codice	7717	8527	8537	8317
Seite / Page / Pagina	63	64	64	65
Geeignet für / Suitable for / Adatte per				
Stähle < 400 N/mm² Steels < 400 N/mm² Acciai < 400 N/mm²	■■■■	■■■■	■■■■	■■■■
Stähle < 850 N/mm² Steels < 850 N/mm² Acciai < 850 N/mm²	■■■■	■■■■	■■■■	■■■■
Stähle < 1.100 N/mm² Steels < 1.100 N/mm² Acciai < 1.100 N/mm²	■■■■	■■■■	■■■■	■■■■
Stähle < 1.300 N/mm² Steels < 1.300 N/mm² Acciai < 1.300 N/mm²	■■■□	■■■□	■■■□	■■■□
Stähle > 45 HRC Steels > 45 HRC Acciai > 45 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC
INOX Rostfreie Stähle < 850 N/mm² Stainless steels < 850 N/mm² Acciai inossidabili < 850 N/mm²	■■□□	■■■□	■■■□	■■■□
INOX Rostfreie Stähle > 850 N/mm² Stainless steels > 850 N/mm² Acciai inossidabili > 850 N/mm²	■■□□	■■□□	■■□□	■■□□
Grauguss, Temperguss Cast iron, malleable cast iron Ghisa grigia, ghisa malleabile	■■■■	■■■■	■■■■	■■■■
Ni Nickel Nickel Nickel				
Ti Titan- und Titanlegierung Titanium and titanium alloys Titanio e leghe di Titanio				
Cu, Ms Kupfer, Messing Copper, brass Rame, ottone	■■□□	■■□□	■■□□	■■□□
Al Aluminium Aluminum Alluminio	■■□□	■■□□	■■□□	■■□□
Kunststoffe Plastics Materie plastiche				

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

Speedcut 4.0	Speedcut		Speedcut 4.0	
				
DIN 6527 L			WN	
N	N	N	N	N
lang-freigestellt	lang-freigestellt	lang-freigestellt	XL-freigestellt	XL-freigestellt
4	4	4	4	4
35° - 38°	35° - 38°	35° - 38°	35° - 38°	35° - 38°
DIN 6535-HB	DIN 6535-HA	DIN 6535-HB	DIN 6535-HA	DIN 6535-HB
nein / no / no	nein / no / no	nein / no / no	nein / no / no	nein / no / no
TWINDUR	ALUNIT-S®	ALUNIT-S®	TWINDUR	TWINDUR
3 - 25 mm	3 - 25 mm	3 - 25 mm	5 - 20 mm	5 - 20 mm
8417	7317	7417	8237	8737
65	66	66	67	67
■■■■	■■■■	■■■■	■■■■	■■■■
■■■■	■■■■	■■■■	■■■■	■■■■
■■■■	■■■■	■■■■	■■■■	■■■■
■■■□	■■■□	■■■□	■■■□	■■■□
■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC
■■■□	■■□□	■■□□	■■■□	■■■□
■■□□	■■□□	■■□□	■■□□	■■□□
■■■■	■■■■	■■■■	■■■■	■■■■
■■□□	■■□□	■■□□	■■□□	■■□□
■■□□	■■□□	■■□□	■■□□	■■□□

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

INFORMATION	Speedcut		Speedcut	Speedcut
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Norm / Standard	WN		DIN 6527 L	WN
Typ / Type / Tipo	N	N	N	N
Länge / Length / Lunghezza	XL-freigestellt	XL-freigestellt	lang	XL
Schneidenanzahl / No. of flutes / Nr. denti	4	4	6 - 8	6 - 8
Kopfform / Head type / Tipo di testa				
Drallwinkel / Spiral angle / Anglo elica	35° - 38°	35° - 38°	45°	45°
Schaftform / Shank type / Forma codolo	DIN 6535-HA	DIN 6535-HB	DIN 6535-HA	DIN 6535-HA
Kühlkanäle / Coolant supply / Fori lubrificazione	nein / no / no	nein / no / no	nein / no / no	nein / no / no
Beschichtung / Coating / Rivestimento	ALUNIT-S®	ALUNIT-S®	ALUNIT-S®	ALUNIT-S®
Ø mm	5 - 25 mm	5 - 25 mm	4 - 20 mm	4 - 20 mm
Code / Codice	7237	7737	7327	7337
Seite / Page / Pagina	68	68	69	70
Geeignet für / Suitable for / Adatte per				
Stähle < 400 N/mm^2 Steels < 400 N/mm^2 Acciai < 400 N/mm^2	■■■■	■■■■	■■■■	■■■■
Stähle < 850 N/mm^2 Steels < 850 N/mm^2 Acciai < 850 N/mm^2	■■■■	■■■■	■■■■	■■■■
Stähle < 1.100 N/mm^2 Steels < 1.100 N/mm^2 Acciai < 1.100 N/mm^2	■■■■	■■■■	■■■■	■■■■
Stähle < 1.300 N/mm^2 Steels < 1.300 N/mm^2 Acciai < 1.300 N/mm^2	■■■□	■■■□	■■■□	■■■□
Stähle > 45 HRC Steels > 45 HRC Acciai > 45 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC
Rostfreie Stähle < 850 N/mm^2 Stainless steels < 850 N/mm^2 Acciai inossidabili < 850 N/mm^2	■■□□	■■□□	■■■□	■■■□
Rostfreie Stähle > 850 N/mm^2 Stainless steels > 850 N/mm^2 Acciai inossidabili > 850 N/mm^2	■■□□	■■□□	■■■□	■■■□
Grauguss, Temperguss Cast iron, malleable cast iron Ghisa grigia, ghisa malleabile	■■■■	■■■■	■■■■	■■■■
Nickel Nickel Nickel				
Titan- und Titanlegierung Titanium and titanium alloys Titanio e leghe di Titanio			■■□□	■■□□
Kupfer, Messing Copper, brass Rame, ottone	■■□□	■■□□	■■■□	■■■□
Aluminium Aluminum Alluminio	■■□□	■■□□	■■■□	■■■□
Kunststoffe Plastics Materie plastiche				

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

Speedcut 4.0	Speedcut	Speedcut	Speedcut	Speedcut
				
DIN 6527 L		WN	DIN 6527 L	WN
N	N	N	N	N
lang-freigestellt	lang-freigestellt	lang-freigestellt	lang-freigestellt	XXL-freigestellt
3 - 4	3 - 4	3 - 4	4	4
35° - 38°	35° - 38°	35° - 38°	35° - 38°	35° - 38°
DIN 6535-HA	DIN 6535-HA	DIN 6535-HA	DIN 6535-HA	DIN 6535-HA
nein / no / no	nein / no / no	nein / no / no	nein / no / no	nein / no / no
TWINDUR	ALUNIT-S®	ALUNIT-S®	ALUNIT-S®	ALUNIT-S®
2 - 20 mm	2 - 20 mm	2 - 16 mm	4 - 20 mm	3 - 16 mm
8547	6447	6947	7357	7857
71	72	73	74	75
■■■■	■■■■	■■■■	■■■■	■■■■
■■■■	■■■■	■■■■	■■■■	■■■■
■■■■	■■■■	■■■■	■■■■	■■■■
■■■□	■■■□	■■■□	■■■□	■■■□
■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC
■■■□	■■□□	■■□□	■■□□	■■□□
■■□□	■■□□	■■□□	■■□□	■■□□
■■■■	■■■■	■■■■	■■■■	■■■■
■■□□	■■□□	■■□□	■■□□	■■□□
■■□□	■■□□	■■□□	■■□□	■■□□

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

INFORMATION	Speedcut 4.0			Speedcut 4.0
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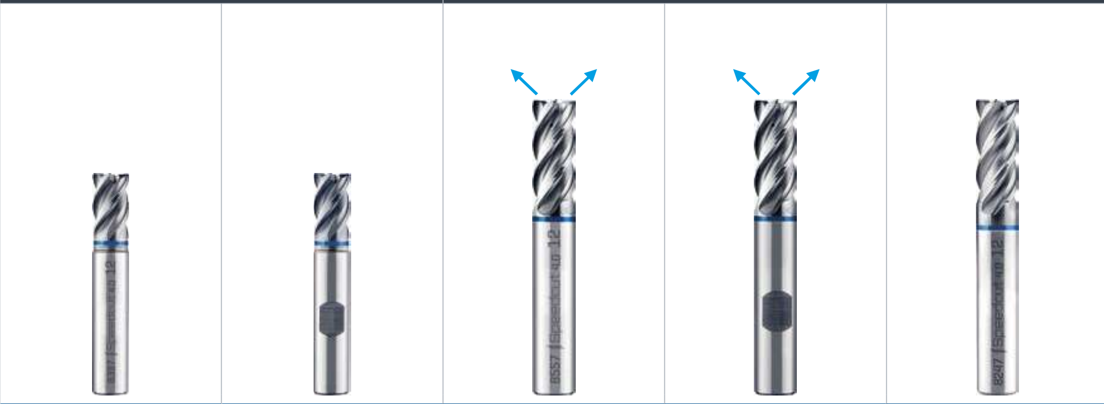
Norm / Standard	WN			DIN 6537 K
Typ / Type / Tipo	N	N	N	N
Länge / Length / Lunghezza	lang-freigestellt	lang-freigestellt	XL-freigestellt	kurz
Schneidenanzahl / No. of flutes / Nr. denti	2	3	3	4
Kopfform / Head type / Tipo di testa	45°	45°	45°	45°
Drallwinkel / Spiral angle / Anglo elica	44° VARIO	45° - 48°	45° - 47°	39° - 42°
Schaftform / Shank type / Forma codolo	DIN 6535-HA	DIN 6535-HB	DIN 6535-HB	DIN 6535-HB
Kühlkanäle / Coolant supply / Fori lubrificazione	nein / no / no	nein / no / no	nein / no / no	nein / no / no
Beschichtung / Coating / Rivestimento	ULTRADUR	ULTRADUR	ULTRADUR	ULTRADUR
Ø mm	1 - 20 mm	1 - 20 mm	1 - 20 mm	3 - 20 mm
Code / Codice	8167	8107	8117	8697
Seite / Page / Pagina	76	77	78	79
Geeignet für / Suitable for / Adatte per				
<400 N/mm² Stähle < 400 N/mm² Steels < 400 N/mm² Acciai < 400 N/mm²	■■■□	■■■□	■■■□	■■■□
<850 N/mm² Stähle < 850 N/mm² Steels < 850 N/mm² Acciai < 850 N/mm²	■■■□	■■■□	■■■□	■■■□
<1100 N/mm² Stähle < 1.100 N/mm² Steels < 1.100 N/mm² Acciai < 1.100 N/mm²	■■■□	■■■□	■■■□	■■■□
<1300 N/mm² Stähle < 1.300 N/mm² Steels < 1.300 N/mm² Acciai < 1.300 N/mm²	■■□□	■■□□	■■□□	■■□□
<45 HRC Stähle > 45 HRC Steels > 45 HRC Acciai > 45 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC
INOX <850 N/mm² Rostfreie Stähle < 850 N/mm² Stainless steels < 850 N/mm² Acciai inossidabili < 850 N/mm²	■■■■	■■■■	■■■■	■■■■
INOX >850 N/mm² Rostfreie Stähle > 850 N/mm² Stainless steels > 850 N/mm² Acciai inossidabili > 850 N/mm²	■■■■	■■■■	■■■■	■■■■
GRAUGUSS CAST IRON GHISA GRIGIA Grauguss, Temperguss Cast iron, malleable cast iron Ghisa grigia, ghisa malleabile	■■□□	■■□□	■■□□	■■□□
Ni Nickel Nickel Nickel				
Ti Titan- und Titanlegierung Titanium and titanium alloys Titanio e leghe di Titanio	■■□□	■■□□	■■□□	■■□□
Cu, Ms Kupfer, Messing Copper, brass Rame, ottone	■■□□	■■□□	■■□□	■■□□
Al Aluminium Aluminum Alluminio	■■□□	■■□□	■■□□	■■□□
Kunststoffe Plastics Materie plastiche				

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto



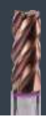
Speedcut 4.0		Speedcut 4.0		
DIN 6527 K		DIN 6527 L		
N	N	N	N	N
kurz-freigestellt	kurz-freigestellt	lang	lang	lang
4	4	4	4	3 - 4
39° - 42°	39° - 42°	39° - 42°	39° - 42°	39° - 42°
DIN 6535-HA	DIN 6535-HB	DIN 6535-HA	DIN 6535-HB	DIN 6535-HA
nein / no / no	nein / no / no	ja / yes / si	ja / yes / si	nein / no / no
ULTRADUR	ULTRADUR	ULTRADUR	ULTRADUR	ULTRADUR
3 - 16 mm	3 - 16 mm	6 - 20 mm	6 - 20 mm	2 - 20 mm
8397	8497	8557	8567	8247
80	80	81	81	82
■■■□	■■■□	■■■□	■■■□	■■■□
■■■□	■■■□	■■■□	■■■□	■■■□
■■■□	■■■□	■■■□	■■■□	■■■□
■■□□	■■□□	■■■□	■■■□	■■■□
■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC
■■■■	■■■■	■■■■	■■■■	■■■■
■■■■	■■■■	■■■■	■■■■	■■■■
■■□□	■■□□	■■□□	■■□□	■■□□
■■□□	■■□□	■■□□	■■□□	■■□□
■■□□	■■□□	■■□□	■■□□	■■□□
■■□□	■■□□	■■□□	■■□□	■■□□

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

INFORMATION	Speedcut 4.0	Speedcut		Speedcut 4.0
Die Schnittwerte für alle Werkzeuge entnehmen Sie bitte unserem MaySpeedGuide. You will find the cutting conditions for all tools in our MaySpeedGuide. Per i parametri di lavorazione per tutti gli utensili richiedete il MaySpeedGuide.				
Norm / Standard	DIN 6527 L			
Typ / Type / Tipo	N	N	N	N
Länge / Length / Lunghezza	lang	lang	lang	lang-freigestellt
Schneidenanzahl / No. of flutes / Nr. denti	3 - 4	3 - 4	3 - 4	4
Kopfform / Head type / Tipo di testa				
Drallwinkel / Spiral angle / Anglo elica	39° - 42°	39° - 42°	39° - 42°	39° - 42°
Schaftform / Shank type / Forma codolo	DIN 6535-HB	DIN 6535-HA	DIN 6535-HB	DIN 6535-HA
Kühlkanäle / Coolant supply / Fori lubrificazione	nein / no / no	nein / no / no	nein / no / no	ja / yes / si
Beschichtung / Coating / Rivestimento	ULTRADUR	ALUNIT-S®	ALUNIT-S®	ULTRADUR
Ø mm	3 - 20 mm	2 - 20 mm	3 - 20 mm	6 - 20 mm
Code / Codice	8747	7247	7747	8587
Seite / Page / Pagina	82	83	83	84
Geeignet für / Suitable for / Adatte per				
Stähle < 400 N/mm² Steels < 400 N/mm² Acciai < 400 N/mm²	■■■□	■■■□	■■■□	■■■□
Stähle < 850 N/mm² Steels < 850 N/mm² Acciai < 850 N/mm²	■■■□	■■■□	■■■□	■■■□
Stähle < 1.100 N/mm² Steels < 1.100 N/mm² Acciai < 1.100 N/mm²	■■■□	■■■□	■■■□	■■■□
Stähle < 1.300 N/mm² Steels < 1.300 N/mm² Acciai < 1.300 N/mm²	■■■□	■■■□	■■■□	■■■□
Stähle > 45 HRC Steels > 45 HRC Acciai > 45 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC
Rostfreie Stähle < 850 N/mm² Stainless steels < 850 N/mm² Acciai inossidabili < 850 N/mm²	■■■■	■■■■	■■■■	■■■■
Rostfreie Stähle > 850 N/mm² Stainless steels > 850 N/mm² Acciai inossidabili > 850 N/mm²	■■■■	■■■■	■■■■	■■■■
Grauguss, Temperguss Cast iron, malleable cast iron Ghisa grigia, ghisa malleabile	■■□□	■■□□	■■□□	■■□□
Nickel Nickel Nickel				
Titan- und Titanlegierung Titanium and titanium alloys Titanio e leghe di Titanio	■■□□	■■□□	■■□□	■■□□
Kupfer, Messing Copper, brass Rame, ottone	■■□□	■■□□	■■□□	■■□□
Aluminium Aluminum Alluminio	■■□□	■■□□	■■□□	■■□□
Kunststoffe Plastics Materie plastiche				

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

Speedcut 4.0			Speedcut	
				
DIN 6527 L				
N	N	N	N	N
lang-freigestellt	lang-freigestellt	lang-freigestellt	lang-freigestellt	lang-freigestellt
4	3 - 4	3 - 4	4	4
45°	45°	45°	45°	45°
39° - 42°	39° - 42°	39° - 42°	39° - 42°	39° - 42°
DIN 6535-HB	DIN 6535-HA	DIN 6535-HB	DIN 6535-HA	DIN 6535-HB
ja / yes / si	nein / no / no	nein / no / no	nein / no / no	nein / no / no
ULTRADUR	ULTRADUR	ULTRADUR	ALUNIT-S®	ALUNIT-S®
6 - 20 mm	2 - 20 mm	3 - 25 mm	3 - 20 mm	3 - 20 mm
8597	8347	8447	7347	7447
84	85	85	86	86
■■■□	■■■□	■■■□	■■■□	■■■□
■■■□	■■■□	■■■□	■■■□	■■■□
■■■□	■■■□	■■■□	■■■□	■■■□
■■■□	■■■□	■■■□	■■■□	■■■□
■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC
■■■■	■■■■	■■■■	■■■■	■■■■
■■■■	■■■■	■■■■	■■■■	■■■■
■■□□	■■□□	■■□□	■■□□	■■□□
■■□□	■■□□	■■□□	■■□□	■■□□
■■□□	■■□□	■■□□	■■□□	■■□□
■■□□	■■□□	■■□□	■■□□	■■□□



VHM-Fräser
Solid carbide milling cutters
Frese in metallo duro integrale

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

INFORMATION	Speedcut 4.0			Speedcut
Die Schnittwerte für alle Werkzeuge entnehmen Sie bitte unserem MaySpeedGuide. You will find the cutting conditions for all tools in our MaySpeedGuide. Per i parametri di lavorazione per tutti gli utensili richiedete il MaySpeedGuide.				
Norm / Standard	WN			
Typ / Type / Tipo	N	N	N	N
Länge / Length / Lunghezza	XL-freigestellt	XL-freigestellt	XL-freigestellt	XL-freigestellt
Schneidenanzahl / No. of flutes / Nr. denti	4	4	4	4
Kopfform / Head type / Tipo di testa	45°	45°	45°	45°
Drallwinkel / Spiral angle / Anglo elica	39° - 42°	39° - 42°	40° VARIO	39° - 42°
Schaftform / Shank type / Forma codolo	DIN 6535-HA	DIN 6535-HB	DIN 6535-HB	DIN 6535-HA
Kühlkanäle / Coolant supply / Fori lubrificazione	nein / no / no	nein / no / no	nein / no / no	nein / no / no
Beschichtung / Coating / Rivestimento	ULTRADUR	ULTRADUR	ULTRADUR	ALUNIT-S®
Ø mm	5 - 20 mm	5 - 20 mm	5 - 20 mm	5 - 20 mm
Code / Codice	8267	8767	8777	7267
Seite / Page / Pagina	87	87	88	89
Geeignet für / Suitable for / Adatte per				
Stähle < 400 N/mm² Steels < 400 N/mm² Acciai < 400 N/mm²	■■■□	■■■□	■■■□	■■■□
Stähle < 850 N/mm² Steels < 850 N/mm² Acciai < 850 N/mm²	■■■□	■■■□	■■■□	■■■□
Stähle < 1.100 N/mm² Steels < 1.100 N/mm² Acciai < 1.100 N/mm²	■■■□	■■■□	■■■□	■■■□
Stähle < 1.300 N/mm² Steels < 1.300 N/mm² Acciai < 1.300 N/mm²	■■■□	■■■□	■■■□	■■■□
Stähle > 45 HRC Steels > 45 HRC Acciai > 45 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC
Rostfreie Stähle < 850 N/mm² Stainless steels < 850 N/mm² Acciai inossidabili < 850 N/mm²	■■■■	■■■■	■■■■	■■■■
Rostfreie Stähle > 850 N/mm² Stainless steels > 850 N/mm² Acciai inossidabili > 850 N/mm²	■■■■	■■■■	■■■■	■■■■
Grauguss, Temperguss Cast iron, malleable cast iron Ghisa grigia, ghisa malleabile	■■□□	■■□□	■■□□	■■□□
Nickel Nickel Nickel				
Titan- und Titanlegierung Titanium and titanium alloys Titanio e leghe di Titanio	■■□□	■■□□	■■□□	■■□□
Kupfer, Messing Copper, brass Rame, ottone	■■□□	■■□□	■■□□	■■□□
Aluminium Aluminum Alluminio	■■□□	■■□□	■■□□	■■□□
Kunststoffe Plastics Materie plastiche				

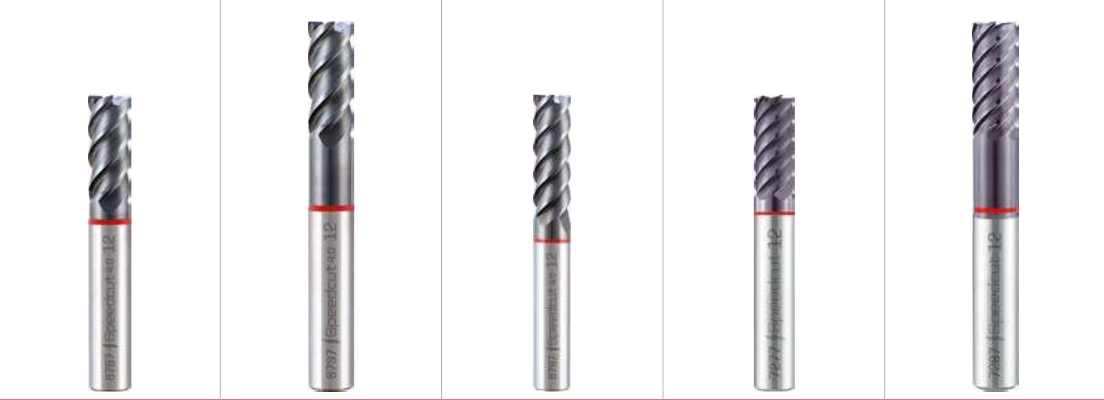
■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

Speedcut	Speedcut 4.0	Speedcut	Speedcut 4.0	Speedcut 4.0
				
WN	DIN 6527 L		DIN 6527 K	WN
N	N	N	N	N
XL-freigestellt	lang-freigestellt	lang-freigestellt	kurz	XXL
4	3 - 4	3 - 4	4	4
39° - 42°	39° - 42°	39° - 42°	39° - 42°	39° - 42°
DIN 6535-HB	DIN 6535-HA	DIN 6535-HA	DIN 6535-HA	DIN 6535-HA
nein / no / no	nein / no / no	nein / no / no	nein / no / no	nein / no / no
ALUNIT-S®	ULTRADUR	ALUNIT-S®	ULTRADUR	ULTRADUR
5 - 20 mm	2 - 20 mm	2 - 20 mm	2 - 20 mm	2 - 20 mm
7767	8647	6547	8177	8187
89	90	91	92	93
■■■□	■■■□	■■■□	■■■□	■■■□
■■■□	■■■□	■■■□	■■■□	■■■□
■■■□	■■■□	■■■□	■■■□	■■■□
■■■□	■■■□	■■■□	■■■□	■■■□
■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC
■■■■	■■■■	■■■■	■■■■	■■■■
■■■■	■■■■	■■■■	■■■■	■■■■
■■□□	■■□□	■■□□	■■□□	■■□□
■■□□	■■□□	■■□□	■■□□	■■□□
■■□□	■■□□	■■□□	■■□□	■■□□
■■□□	■■□□	■■□□	■■□□	■■□□

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

INFORMATION	Speedcut 4.0			
Die Schnittwerte für alle Werkzeuge entnehmen Sie bitte unserem MaySpeedGuide. You will find the cutting conditions for all tools in our MaySpeedGuide. Per i parametri di lavorazione per tutti gli utensili richiedete il MaySpeedGuide.				
Norm / Standard	WN			
Typ / Type / Tipo	T+S	T+S	T+S	T+S
Länge / Length / Lunghezza	lang-freigestellt	lang-freigestellt	lang	lang
Schneidenanzahl / No. of flutes / Nr. denti	5	5	7	7
Kopfform / Head type / Tipo di testa				
Drallwinkel / Spiral angle / Anglo elica	40° VARIO	40° VARIO	40° VARIO	40° VARIO
Schaftform / Shank type / Forma codolo	DIN 6535-HA	DIN 6535-HB	DIN 6535-HA	DIN 6535-HB
Kühlkanäle / Coolant supply / Fori lubrificazione	ja / yes / si	ja / yes / si	ja / yes / si	ja / yes / si
Beschichtung / Coating / Rivestimento	AERODUR	AERODUR	AERODUR	AERODUR
Ø mm	3 - 20 mm	3 - 20 mm	3 - 20 mm	3 - 20 mm
Code / Codice	8127	8137	8147	8157
Seite / Page / Pagina	94	94	96	96
Geeignet für / Suitable for / Adatte per				
Stähle < 400 N/mm² Steels < 400 N/mm² Acciai < 400 N/mm²				
Stähle < 850 N/mm² Steels < 850 N/mm² Acciai < 850 N/mm²				
Stähle < 1.100 N/mm² Steels < 1.100 N/mm² Acciai < 1.100 N/mm²				
Stähle < 1.300 N/mm² Steels < 1.300 N/mm² Acciai < 1.300 N/mm²				
Stähle > 45 HRC Steels > 45 HRC Acciai > 45 HRC				
Rostfreie Stähle < 850 N/mm² Stainless steels < 850 N/mm² Acciai inossidabili < 850 N/mm²				
Rostfreie Stähle > 850 N/mm² Stainless steels > 850 N/mm² Acciai inossidabili > 850 N/mm²				
Grauguss, Temperguss Cast iron, malleable cast iron Ghisa grigia, ghisa malleabile				
Nickel Nickel Nickel	■■□□	■■□□	■■□□	■■□□
Titan- und Titanlegierung Titanium and titanium alloys Titanio e leghe di Titanio	■■■■	■■■■	■■■■	■■■■
Kupfer, Messing Copper, brass Rame, ottone				
Aluminium Aluminum Alluminio				
Kunststoffe Plastics Materie plastiche				

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

Speedcut 4.0	Speedcut 4.0		Speedcut	Speedcut
				
DIN 6527 L	WN		DIN 6527 L	WN
H	H	H	H	H
lang	XL-freigestellt	XL	lang	XL-freigestellt
4	4	4	6 - 10	6 - 10
45°	45°	45°	45°	45°
50° VARIO	50° VARIO	50° VARIO	50°	50°
DIN 6535-HA	DIN 6535-HA	DIN 6535-HA	DIN 6535-HA	DIN 6535-HA
nein / no / no	nein / no / no	nein / no / no	nein / no / no	nein / no / no
DUALDUR	DUALDUR	DUALDUR	ALUNIT-S®	ALUNIT-S®
4 - 20 mm	4 - 20 mm	12 - 16 mm	4 - 20 mm	4 - 20 mm
8787	8797	8797	7277	7287
98	99	100	101	102
■■□□	■■□□	■■□□	■■□□	■■□□
■■■□	■■■□	■■■□	■■■□	■■■□
■■■■ <65 HRC	■■■■ <65 HRC	■■■■ <65 HRC	■■■■ <68 HRC	■■■■ <68 HRC
■■□□	■■□□	■■□□	■■□□	■■□□

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

INFORMATION	Speedcut		Speedcut	
Die Schnittwerte für alle Werkzeuge entnehmen Sie bitte unserem MaySpeedGuide. You will find the cutting conditions for all tools in our MaySpeedGuide. Per i parametri di lavorazione per tutti gli utensili richiedete il MaySpeedGuide.				
Norm / Standard	WN		DIN 6527 L	
Typ / Type / Tipo	H	H	W	W
Länge / Length / Lunghezza	XL	lang-freigestellt	lang-freigestellt	lang-freigestellt
Schneidenanzahl / No. of flutes / Nr. denti	6 - 8	6 - 8	2	2
Kopfform / Head type / Tipo di testa				
Drallwinkel / Spiral angle / Anglo elica	50°	50°	43° - 45°	43° - 45°
Schaftform / Shank type / Forma codolo	DIN 6535-HA	DIN 6535-HA	DIN 6535-HA	DIN 6535-HB
Kühlkanäle / Coolant supply / Fori lubrificazione	nein / no / no	nein / no / no	nein / no / no	nein / no / no
Beschichtung / Coating / Rivestimento	ALUNIT-S®	ALUNIT-S®		
Ø mm	12 - 16 mm	4 - 16 mm	3 - 20 mm	3 - 20 mm
Code / Codice	7287	6647	7035	7135
Seite / Page / Pagina	103	104	105	105
Geeignet für / Suitable for / Adatte per				
<400 N/mm² Stähle < 400 N/mm² Steels < 400 N/mm² Acciai < 400 N/mm²				
<850 N/mm² Stähle < 850 N/mm² Steels < 850 N/mm² Acciai < 850 N/mm²				
<1100 N/mm² Stähle < 1.100 N/mm² Steels < 1.100 N/mm² Acciai < 1.100 N/mm²	■■□□	■■□□		
<1300 N/mm² Stähle < 1.300 N/mm² Steels < 1.300 N/mm² Acciai < 1.300 N/mm²	■■■□	■■■□		
<45 HRC Stähle > 45 HRC Steels > 45 HRC Acciai > 45 HRC	■■■■ <68 HRC	■■■■ <68 HRC		
INOX <850 N/mm² Rostfreie Stähle < 850 N/mm² Stainless steels < 850 N/mm² Acciai inossidabili < 850 N/mm²				
INOX >850 N/mm² Rostfreie Stähle > 850 N/mm² Stainless steels > 850 N/mm² Acciai inossidabili > 850 N/mm²				
GRAUGUSS CAST IRON GHISA GRIGIA Grauguss, Temperguss Cast iron, malleable cast iron Ghisa grigia, ghisa malleabile	■■□□	■■□□		
Ni Nickel Nickel Nickel				
Ti Titan- und Titanlegierung Titanium and titanium alloys Titanio e leghe di Titanio				
Cu, Ms Kupfer, Messing Copper, brass Rame, ottone			■■■□	■■■□
Al Aluminium Aluminum Alluminio			■■■■	■■■■
Kunststoffe Plastics Materie plastiche			■■■□	■■■□

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

Speedcut		Speedcut		
				
DIN 6527 L		WN		
W	W	W	W	W
lang-freigestellt	lang-freigestellt	XL-freigestellt	XL-freigestellt	XXL-freigestellt
3 - 4	3 - 4	3	3	3
45°	45°	45°	45°	45°
34° - 38°	34° - 38°	34° - 38°	34° - 38°	34° - 38°
DIN 6535-HA	DIN 6535-HB	DIN 6535-HA	DIN 6535-HB	DIN 6535-HA
nein / no / no	nein / no / no	nein / no / no	nein / no / no	nein / no / no
3 - 25 mm	3 - 25 mm	3 - 20 mm	3 - 20 mm	3 - 20 mm
7250	7950	7220	7920	7290
106	106	107	107	108
■■■□	■■■□	■■■□	■■■□	■■■□
■■■■	■■■■	■■■■	■■■■	■■■■
■■■□	■■■□	■■■□	■■■□	■■■□

VHM-Fräser
Solid carbide milling cutters
Frese in metallo duro integrale

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

INFORMATION	Speedcut	Speedcut	Speedcut	
Die Schnittwerte für alle Werkzeuge entnehmen Sie bitte unserem MaySpeedGuide. You will find the cutting conditions for all tools in our MaySpeedGuide. Per i parametri di lavorazione per tutti gli utensili richiedete il MaySpeedGuide.				
Norm / Standard	WN	DIN 6527 L	WN	
Typ / Type / Tipo	W	W	W	W
Länge / Length / Lunghezza	XXL-freigestellt	lang-freigestellt	XL-freigestellt	lang-freigestellt
Schneidenanzahl / No. of flutes / Nr. denti	3	3	3	2
Kopfform / Head type / Tipo di testa				
Drallwinkel / Spiral angle / Anglo elica	34° - 38°	34° - 38°	34° - 38°	43° - 45°
Schaftform / Shank type / Forma codolo	DIN 6535-HB	DIN 6535-HA	DIN 6535-HA	DIN 6535-HA
Kühlkanäle / Coolant supply / Fori lubrificazione	nein / no / no	nein / no / no	nein / no / no	nein / no / no
Beschichtung / Coating / Rivestimento				
Ø mm	3 - 20 mm	3 - 16 mm	3 - 20 mm	3 - 20 mm
Code / Codice	7990	7230	7090	7240
Seite / Page / Pagina	108	109	110	111
Geeignet für / Suitable for / Adatte per				
<400 N/mm² Stähle < 400 N/mm² Steels < 400 N/mm² Acciai < 400 N/mm²				
<850 N/mm² Stähle < 850 N/mm² Steels < 850 N/mm² Acciai < 850 N/mm²				
<1100 N/mm² Stähle < 1.100 N/mm² Steels < 1.100 N/mm² Acciai < 1.100 N/mm²				
<1300 N/mm² Stähle < 1.300 N/mm² Steels < 1.300 N/mm² Acciai < 1.300 N/mm²				
<45 HRC Stähle > 45 HRC Steels > 45 HRC Acciai > 45 HRC				
INOX <850 N/mm² Rostfreie Stähle < 850 N/mm² Stainless steels < 850 N/mm² Acciai inossidabili < 850 N/mm²				
INOX >850 N/mm² Rostfreie Stähle > 850 N/mm² Stainless steels > 850 N/mm² Acciai inossidabili > 850 N/mm²				
GRAUGUSS CAST IRON GHISA GRIGIA Grauguss, Temperguss Cast iron, malleable cast iron Ghisa grigia, ghisa malleabile				
Ni Nickel Nickel Nickel				
Ti Titan- und Titanlegierung Titanium and titanium alloys Titanio e leghe di Titanio				
Cu, Ms Kupfer, Messing Copper, brass Rame, ottone	■■■□	■■■□	■■■□	■■■□
Al Aluminium Aluminum Alluminio	■■■■	■■■■	■■■■	■■■■
Kunststoffe Plastics Materie plastiche	■■■□	■■■□	■■■□	■■■□

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

Speedcut

				
		WN		
W	WR	WR	WR	WR
XXL-freigestellt	lang-freigestellt	lang-freigestellt	XL-freigestellt	XL-freigestellt
2	3	3	3	3
43° - 45°	35° VARIO	35° VARIO	35° VARIO	35° VARIO
DIN 6535-HA	DIN 6535-HA	DIN 6535-HB	DIN 6535-HA	DIN 6535-HB
nein / no / no	nein / no / no	nein / no / no	nein / no / no	nein / no / no
3 - 12 mm	6 - 20 mm	6 - 20 mm	6 - 20 mm	6 - 20 mm
7260	7015	7115	7055	7155
112	113	113	114	114
■■■□	■■■□	■■■□	■■■□	■■■□
■■■■	■■■■	■■■■	■■■■	■■■■
■■■□	■■■□	■■■□	■■■□	■■■□

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

INFORMATION	eco Speedcut		TurboTwister	
Die Schnittwerte für alle Werkzeuge entnehmen Sie bitte unserem MaySpeedGuide. You will find the cutting conditions for all tools in our MaySpeedGuide. Per i parametri di lavorazione per tutti gli utensili richiedete il MaySpeedGuide.				
Norm / Standard	WN			
Typ / Type / Tipo	N	N	N	N
Länge / Length / Lunghezza	kurz-freigestellt	kurz	kurz	lang
Schneidenanzahl / No. of flutes / Nr. denti	4	4	5	5
Kopfform / Head type / Tipo di testa	45°	45°	45°	45°
Drallwinkel / Spiral angle / Anglo elica	35° - 38°	35° - 38°	40° VARIO	40° VARIO
Schaftform / Shank type / Forma codolo	DIN 6535-HA	DIN 6535-HB	DIN 6535-HB	DIN 6535-HB
Kühlkanäle / Coolant supply / Fori lubrificazione	nein / no / no	nein / no / no	nein / no / no	nein / no / no
Beschichtung / Coating / Rivestimento	ALUNIT-S®	ALUNIT-S®	SUPRADUR	SUPRADUR
Ø mm	4 - 12 mm	4 - 12 mm	3 - 20 mm	3 - 20 mm
Code / Codice	7627	7127	8002	8003
Seite / Page / Pagina	115	115	116	117
Geeignet für / Suitable for / Adatte per				
Stähle < 400 N/mm² Steels < 400 N/mm² Acciai < 400 N/mm²	■■■■	■■■■	■■■□	■■■□
Stähle < 850 N/mm² Steels < 850 N/mm² Acciai < 850 N/mm²	■■■■	■■■■	■■■■	■■■■
Stähle < 1.100 N/mm² Steels < 1.100 N/mm² Acciai < 1.100 N/mm²	■■■■	■■■■	■■■■	■■■■
Stähle < 1.300 N/mm² Steels < 1.300 N/mm² Acciai < 1.300 N/mm²	■■■□	■■■□	■■■□	■■■□
Stähle > 45 HRC Steels > 45 HRC Acciai > 45 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC
INOX < 850 N/mm²: Rostfreie Stähle < 850 N/mm² Stainless steels < 850 N/mm² Acciai inossidabili < 850 N/mm²	■■■□	■■■□	■■■□	■■■□
INOX > 850 N/mm²: Rostfreie Stähle > 850 N/mm² Stainless steels > 850 N/mm² Acciai inossidabili > 850 N/mm²	■■□□	■■□□	■■■□	■■■□
Grauguss, Temperguss Cast iron, malleable cast iron Ghisa grigia, ghisa malleabile	■■■■	■■■■	■■■□	■■■□
Ni: Nickel Nickel Nickel				
Ti: Titan- und Titanlegierung Titanium and titanium alloys Titanio e leghe di Titanio			■■□□	■■□□
Cu, Ms: Kupfer, Messing Copper, brass Rame, ottone	■■□□	■■□□	■■□□	■■□□
Al: Aluminium Aluminum Alluminio	■■□□	■■□□	■■□□	■■□□
Kunststoffe Plastics Materie plastiche				

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

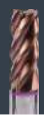
Turbo Twister		Speedtwister		
				
		WN		
N	N	N	N	N
XL	XXL	lang-freigestellt	XL	XL
5	5	5	5	8 - 10
45°	45°	45°	45°	45°
40° VARIO	40° VARIO	45° VARIO	45° VARIO	50°
DIN 6535-HB	DIN 6535-HB	DIN 6535-HB	DIN 6535-HB	DIN 6535-HA
nein / no / no	nein / no / no	nein / no / no	nein / no / no	nein / no / no
SUPRADUR	SUPRADUR	TWINDUR	TWINDUR	ALUNIT-S®
6 - 20 mm	6 - 20 mm	3 - 20 mm	6 - 16 mm	6 - 16 mm
8004	8005	6117	6137	6199
118	119	120	121	122
■■■□	■■■□	■■■□	■■■□	■■□□
■■■■	■■■■	■■■■	■■■■	■■■□
■■■■	■■■■	■■■■	■■■■	■■■■
■■■□	■■■□	■■■□	■■■□	■■■□
■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC
■■■□	■■■□	■■□□	■■□□	■■■□
■■■□	■■■□	■■□□	■■□□	■■■□
■■■□	■■■□	■■□□	■■□□	■■■□
■■□□	■■□□			■■□□
■■□□	■■□□	■■□□	■■□□	■■■□
■■□□	■■□□			■■□□

VHM-Fräser
Solid carbide milling cutters
Frese in metallo duro integrale

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

INFORMATION	Speedtwister			HSC end mills
Die Schnittwerte für alle Werkzeuge entnehmen Sie bitte unserem MaySpeedGuide. You will find the cutting conditions for all tools in our MaySpeedGuide. Per i parametri di lavorazione per tutti gli utensili richiedete il MaySpeedGuide.				
Norm / Standard	WN			
Typ / Type / Tipo	N	N	N	H
Länge / Length / Lunghezza	lang-freigestellt	XL	XL	kurz
Schneidenanzahl / No. of flutes / Nr. denti	5	5	5	3 - 4
Kopfform / Head type / Tipo di testa	45°	45°	R	R
Drallwinkel / Spiral angle / Anglo elica	45° VARIO	45° VARIO	45° VARIO	30°
Schaftform / Shank type / Forma codolo	DIN 6535-HB	DIN 6535-HB	DIN 6535-HB	DIN 6535-HA
Kühlkanäle / Coolant supply / Fori lubrificazione	nein / no / no	nein / no / no	ja / yes / si	nein / no / no
Beschichtung / Coating / Rivestimento	ULTRADUR	ULTRADUR	ULTRADUR	KUPRADUR
Ø mm	3 - 20 mm	6 - 16 mm	6 - 16 mm	2 - 16 mm
Code / Codice	6107	6197	6198	7110
Seite / Page / Pagina	123	124	125	126
Geeignet für / Suitable for / Adatte per				
<400 N/mm² — **Stähle < 400 N/mm²** Steels < 400 N/mm² Acciai < 400 N/mm²	■■■□	■■■□	■■■□	
<850 N/mm² — **Stähle < 850 N/mm²** Steels < 850 N/mm² Acciai < 850 N/mm²	■■■■	■■■■	■■■■	
<1100 N/mm² — **Stähle < 1.100 N/mm²** Steels < 1.100 N/mm² Acciai < 1.100 N/mm²	■■■■	■■■■	■■■■	■■□□
<1300 N/mm² — **Stähle < 1.300 N/mm²** Steels < 1.300 N/mm² Acciai < 1.300 N/mm²	■■■□	■■■□	■■■□	■■■□
<45 HRC — **Stähle > 45 HRC** Steels > 45 HRC Acciai > 45 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■□□ <50 HRC	■■■■ <68 HRC
INOX <850 N/mm² — **Rostfreie Stähle < 850 N/mm²** Stainless steels < 850 N/mm² Acciai inossidabili < 850 N/mm²	■■■■	■■■■	■■■■	
INOX >850 N/mm² — **Rostfreie Stähle > 850 N/mm²** Stainless steels > 850 N/mm² Acciai inossidabili > 850 N/mm²	■■■■	■■■■	■■■■	
GRAUGUSS CAST IRON GHISA GRIGIA — **Grauguss, Temperguss** Cast iron, malleable cast iron Ghisa grigia, ghisa malleabile	■■■□	■■■□	■■■□	■■■□
Ni — **Nickel** Nickel Nickel				
Ti — **Titan- und Titanlegierung** Titanium and titanium alloys Titanio e leghe di Titanio	■■□□	■■□□	■■□□	
Cu, Ms — **Kupfer, Messing** Copper, brass Rame, ottone	■■□□	■■□□	■■□□	
Al — **Aluminium** Aluminum Alluminio	■■□□	■■□□	■■□□	
Kunststoffe Plastics Materie plastiche				

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto



VHM-Fräser
Solid carbide milling cutters
Frese in metallo duro integrale

HSC end mills

			
WN			
H	H	H	H
lang	kurz	lang	kurz & lang
3 - 4	2	2	4
30°	30°	30°	30°
DIN 6535-HA	DIN 6535-HA	DIN 6535-HA	DIN 6535-HA
nein / no / no	nein / no / no	nein / no / no	nein / no / no
KUPRADUR	KUPRADUR	KUPRADUR	KUPRADUR
2 - 16 mm	3 - 16 mm	3 - 12 mm	4 - 16 mm
7210	7060	7160	7030
127	128	129	130
■■□□	■■□□	■■□□	■■□□
■■■□	■■■□	■■■□	■■■□
■■■■ <68 HRC	■■■■ <60 HRC	■■■■ <60 HRC	■■■■ <68 HRC
■■■□	■■■□	■■■□	■■■□

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

INFORMATION	Schaftfräser End mills Frese frontali				
Die Schnittwerte für alle Werkzeuge entnehmen Sie bitte unserem MaySpeedGuide. You will find the cutting conditions for all tools in our MaySpeedGuide. Per i parametri di lavorazione per tutti gli utensili richiedete il MaySpeedGuide.					
Norm / Standard	WN				
Typ / Type / Tipo	N	N	W	N	N
Länge / Length / Lunghezza	kurz	kurz	kurz	lang	lang
Schneidenanzahl / No. of flutes / Nr. denti	2	2	2	2	2
Kopfform / Head type / Tipo di testa	45°	45°	60°	45°	45°
Drallwinkel / Spiral angle / Anglo elica	30°	30°	30°	30°	30°
Schaftform / Shank type / Forma codolo	d1=d2	d1=d2	d1=d2	d1=d2	d1=d2
Kühlkanäle / Coolant supply / Fori lubrificazione	nein / no / no	nein / no / no	nein / no / no	nein / no / no	nein / no / no
Beschichtung / Coating / Rivestimento		ALUNIT®			ALUNIT®
Ø mm	1 - 20 mm	1 - 20 mm	1 - 20 mm	3 - 12 mm	3 - 12 mm
Code / Codice	6015	6017	6915	6025	6027
Seite / Page / Pagina	131	131	132	133	133
Geeignet für / Suitable for / Adatte per					
<400 N/mm² — Stähle < 400 N/mm² Steels < 400 N/mm² Acciai < 400 N/mm²	■■■■	■■■■		■■■■	■■■■
<850 N/mm² — Stähle < 850 N/mm² Steels < 850 N/mm² Acciai < 850 N/mm²	■■■■	■■■■		■■■■	■■■■
<1100 N/mm² — Stähle < 1.100 N/mm² Steels < 1.100 N/mm² Acciai < 1.100 N/mm²	■■■■	■■■■		■■■■	■■■■
<1300 N/mm² — Stähle < 1.300 N/mm² Steels < 1.300 N/mm² Acciai < 1.300 N/mm²	■■■□	■■■■		■■■□	■■■■
<45 HRC — Stähle > 45 HRC Steels > 45 HRC Acciai > 45 HRC					
INOX <850 N/mm² — Rostfreie Stähle < 850 N/mm² Stainless steels < 850 N/mm² Acciai inossidabili < 850 N/mm²	■■□□	■■■□		■■□□	■■■□
INOX >850 N/mm² — Rostfreie Stähle > 850 N/mm² Stainless steels > 850 N/mm² Acciai inossidabili > 850 N/mm²	■□□□	■■□□		■□□□	■■□□
GRAUGUSS CAST IRON GHISA GRIGIA — Grauguss, Temperguss Cast iron, malleable cast iron Ghisa grigia, ghisa malleabile	■■■□	■■■■		■■■□	■■■■
Ni — Nickel Nickel Nickel					
Ti — Titan- und Titanlegierung Titanium and titanium alloys Titanio e leghe di Titanio					
Cu, Ms — Kupfer, Messing Copper, brass Rame, ottone	■■□□	■■□□	■■■□	■■□□	■■□□
Al — Aluminium Aluminum Alluminio	■■□□	■■□□	■■■■	■■□□	■■□□
Kunststoffe Plastics Materie plastiche			■■■□		

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

	Schaftfräser End mills Frese frontali				
					
	WN				
	N	N	N	N	N
	kurz	kurz	lang	lang	kurz
	3	3	3	3	4
	45°	45°	45°	45°	45°
	30°	30°	30°	30°	30°
	d1=d2	d1=d2	d1=d2	d1=d2	d1=d2
	nein / no / no	nein / no / no	nein / no / no	nein / no / no	nein / no / no
		ALUNIT®		ALUNIT®	
	1 - 20 mm	1 - 20 mm	3 - 20 mm	3 - 16 mm	1 - 20 mm
	6055	6057	6065	6067	6075
	134	134	135	135	136

	■■■■	■■■■	■■■■	■■■■	■■■■
	■■■■	■■■■	■■■■	■■■■	■■■■
	■■■■	■■■■	■■■■	■■■■	■■■■
	■■■□	■■■■	■■■□	■■■■	■■■□
	■■□□	■■■□	■■□□	■■■□	■■□□
	■□□□	■■□□	■□□□	■■□□	■□□□
	■■■□	■■■■	■■■□	■■■■	■■■□
	■■□□	■■□□	■■□□	■■□□	■■□□
	■■□□	■■□□	■■□□	■■□□	■■□□

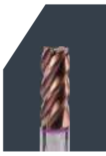
■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

INFORMATION	Schaftfräser End mills Frese frontali		Schaftfräser End mills Frese frontali	
Die Schnittwerte für alle Werkzeuge entnehmen Sie bitte unserem MaySpeedGuide. You will find the cutting conditions for all tools in our MaySpeedGuide. Per i parametri di lavorazione per tutti gli utensili richiedete il MaySpeedGuide.				
Norm / Standard	WN		DIN 6527 L	
Typ / Type / Tipo	N	N	N	N
Länge / Length / Lunghezza	kurz	lang	lang	lang
Schneidenanzahl / No. of flutes / Nr. denti	4	4	3	4
Kopfform / Head type / Tipo di testa	45°	45°	45°	45°
Drallwinkel / Spiral angle / Anglo elica	30°	30°	30°	30°
Schaftform / Shank type / Forma codolo	d1=d2	d1=d2	DIN 6535-HB	DIN 6535-HB
Kühlkanäle / Coolant supply / Fori lubrificazione	nein / no / no	nein / no / no	nein / no / no	nein / no / no
Beschichtung / Coating / Rivestimento	ALUNIT®	ALUNIT®	ALUNIT®	ALUNIT®
Ø mm	1 - 20 mm	3 - 25 mm	2 - 12 mm	2 - 20 mm
Code / Codice	6077	6087	7657	7677
Seite / Page / Pagina	136	137	138	139
Geeignet für / Suitable for / Adatte per				
<400 N/mm² **Stähle < 400 N/mm²** Steels < 400 N/mm² Acciai < 400 N/mm²	■■■■	■■■■	■■■■	■■■■
<850 N/mm² **Stähle < 850 N/mm²** Steels < 850 N/mm² Acciai < 850 N/mm²	■■■■	■■■■	■■■■	■■■■
<1100 N/mm² **Stähle < 1.100 N/mm²** Steels < 1.100 N/mm² Acciai < 1.100 N/mm²	■■■■	■■■■	■■■■	■■■■
<1300 N/mm² **Stähle < 1.300 N/mm²** Steels < 1.300 N/mm² Acciai < 1.300 N/mm²	■■■■	■■■■	■■■■	■■■■
<45 HRC **Stähle > 45 HRC** Steels > 45 HRC Acciai > 45 HRC				
INOX <850 N/mm² **Rostfreie Stähle < 850 N/mm²** Stainless steels < 850 N/mm² Acciai inossidabili < 850 N/mm²	■■■□	■■■□	■■■□	■■■□
INOX >850 N/mm² **Rostfreie Stähle > 850 N/mm²** Stainless steels > 850 N/mm² Acciai inossidabili > 850 N/mm²	■■□□	■■□□	■■□□	■■□□
GRAUGUSS CAST IRON GHISA GRIGIA **Grauguss, Temperguss** Cast iron, malleable cast iron Ghisa grigia, ghisa malleabile	■■■■	■■■■	■■■■	■■■■
Ni **Nickel** Nickel Nickel				
Ti **Titan- und Titanlegierung** Titanium and titanium alloys Titanio e leghe di Titanio				
Cu, Ms **Kupfer, Messing** Copper, brass Rame, ottone	■■□□	■■□□	■■□□	■■□□
Al **Aluminium** Aluminum Alluminio	■■□□	■■□□	■■□□	■■□□
Kunststoffe Plastics Materie plastiche				

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

Schaftfräser End mills Frese frontali				Schaftfräser End mills Frese frontali
				
DIN 6527 L				WN
N	HR	HR	HR	N
lang	lang	lang	lang	
4	3 - 4	3 - 4	4 - 5	2
60°	45°	45°	45°	60°
30°	20°	30°	45°	30°
DIN 6535-HB	DIN 6535-HB	DIN 6535-HB	DIN 6535-HB	DIN 6535-HA
nein / no / no	nein / no / no	nein / no / no	nein / no / no	nein / no / no
ALUNIT®	ALUNIT-S®	ALUNIT®	ALUNIT-S®	
3 - 20 mm	4 - 20 mm	3 - 20 mm	6 - 20 mm	1 - 6 mm
7617	7047	7027	7087	6615
140	141	142	143	144
■■■■	■■□□	■■■■	■■■■	■■■■
■■■■	■■■□	■■■■	■■■■	■■■■
■■■■	■■■■	■■■■	■■■■	■■■■
■■■■	■■■■	■■■■	■■■■	■■■□
	■■□□ <50 HRC			
■■■□		■■□□	■■■□	■■□□
■■□□	■■□□	■■□□	■■■□	■□□□
■■■■	■■■■	■■■■	■■■□	■■■□
			■■□□	
■■□□	■■□□	■■□□	■■□□	■■□□
■■□□		■■□□	■■□□	■■□□

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto



Die Schnittwerte für alle Werkzeuge entnehmen Sie bitte unserem MaySpeedGuide.

You will find the cutting conditions for all tools in our MaySpeedGuide.

Per i parametri di lavorazione per tutti gli utensili richiedete il MaySpeedGuide.

INFORMATION	Schaftfräser End mills Frese frontali			Miniatur-Schaftfräser Mini end mills Mini end mills		
Norm / Standard	WN					
Typ / Type / Tipo	N	N	N	N	N	N
Länge / Length / Lunghezza				kurz	lang	kurz
Schneidenanzahl / No. of flutes / Nr. denti	3	3	4	2	3	2
Kopfform / Head type / Tipo di testa						
Drallwinkel / Spiral angle / Anglo elica	30°	30°	30°	30°	30°	30°
Schaftform / Shank type / Forma codolo	DIN 6535-HA	DIN 6535-HA	DIN 6535-HA	DIN 6535-HA	DIN 6535-HA	d1=d2
Kühlkanäle / Coolant supply / Fori lubrificazione	nein / no / no	nein / no / no	nein / no / no	nein / no / no	nein / no / no	nein / no / no
Beschichtung / Coating / Rivestimento		ALUNIT®	ALUNIT®		ALUNIT®	
Ø mm	1 - 6 mm	1 - 6 mm	1 - 6 mm	0.4 - 3 mm	1 - 3 mm	1 - 20 mm
Code / Codice	6315	6317	6517	6245	6477	7525
Seite / Page / Pagina	145	145	146	147	148	149
Geeignet für / Suitable for / Adatte per						
Stähle < 400 N/mm² Steels < 400 N/mm² Acciai < 400 N/mm²	■■■■	■■■■	■■■■	■■■■	■■■■	■■■■
Stähle < 850 N/mm² Steels < 850 N/mm² Acciai < 850 N/mm²	■■■■	■■■■	■■■■	■■■■	■■■■	■■■■
Stähle < 1.100 N/mm² Steels < 1.100 N/mm² Acciai < 1.100 N/mm²	■■■■	■■■■	■■■■	■■■■	■■■■	■■■■
Stähle < 1.300 N/mm² Steels < 1.300 N/mm² Acciai < 1.300 N/mm²	■■■□	■■■■	■■■■	■■■□	■■■■	■■■□
Stähle > 45 HRC Steels > 45 HRC Acciai > 45 HRC						
Rostfreie Stähle < 850 N/mm² Stainless steels < 850 N/mm² Acciai inossidabili < 850 N/mm²	■■□□	■■■□	■■■□	■■□□	■■■□	■■□□
Rostfreie Stähle > 850 N/mm² Stainless steels > 850 N/mm² Acciai inossidabili > 850 N/mm²	■□□□	■■□□	■■□□	■□□□	■■□□	■□□□
Grauguss, Temperguss Cast iron, malleable cast iron Ghisa grigia, ghisa malleabile	■■■□	■■■■	■■■■	■■■□	■■■■	■■■□
Nickel Nickel Nickel						
Titan- und Titanlegierung Titanium and titanium alloys Titanio e leghe di Titanio						
Kupfer, Messing Copper, brass Rame, ottone	■■□□	■■□□	■■□□	■■□□	■■□□	■■□□
Aluminium Aluminum Alluminio	■■□□	■■□□	■■□□	■■□□	■■□□	■■□□
Kunststoffe Plastics Materie plastiche						

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

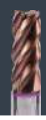
Radiusfräser
Ball nose end mills
Frese cilindriche raggiate

			WN			
N	N	N	N	N	N	N
kurz	kurz	lang	kurz	kurz	kurz	kurz
2	2	2	3	3	4	4
30°	30°	30°	30°	30°	30°	30°
d1=d2	d1=d2	d1=d2	d1=d2	d1=d2	d1=d2	d1=d2
nein / no / no	nein / no / no	nein / no / no	nein / no / no	nein / no / no	nein / no / no	nein / no / no
ALUNIT®				ALUNIT®		ALUNIT®
1 - 20 mm	1 - 12 mm	3 - 12 mm	1 - 12 mm	1 - 12 mm	1 - 16 mm	1 - 16 mm
7527	6925	7535	7555	7557	7075	7077
149	150	151	152	152	153	153
■■■■	■■□□	■■■■	■■■■	■■■■	■■■■	■■■■
■■■■		■■■■	■■■■	■■■■	■■■■	■■■■
■■■■		■■■■	■■■■	■■■■	■■■■	■■■■
■■■■		■■■□	■■■□	■■■■	■■■□	■■■■
■■■□		■■□□	■■□□	■■■□	■■□□	■■■□
■■□□		■□□□	■□□□	■■□□	■□□□	■■□□
■■■■		■■□□	■■■□	■■■■	■■■□	■■■■
■■□□	■■□□	■■□□	■■□□	■■□□	■■□□	■■□□
■■□□	■■■■	■■□□	■■□□	■■□□	■■□□	■■□□
	■■□□					

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

INFORMATION	Radiusfräser Ball nose end mills Frese cilindriche raggiate	Miniatur-Radiusfräser Mini ball nose end mills Frese in miniatura raggiate		Miniaturfräser Mini end mills Frese in miniatura	
Die Schnittwerte für alle Werkzeuge entnehmen Sie bitte unserem MaySpeedGuide. You will find the cutting conditions for all tools in our MaySpeedGuide. Per i parametri di lavorazione per tutti gli utensili richiedete il MaySpeedGuide.					
Norm / Standard	DIN 6527 L	WN			
Typ / Type / Tipo	N	N	N	H	H
Länge / Length / Lunghezza	lang	kurz	lang		
Schneidenanzahl / No. of flutes / Nr. denti	2	2	4	2	2
Kopfform / Head type / Tipo di testa					
Drallwinkel / Spiral angle / Anglo elica	30°	30°	30°	30°	30°
Schaftform / Shank type / Forma codolo	DIN 6535-HB	DIN 6535-HA	DIN 6535-HA	DIN 6535-HA	DIN 6535-HA
Kühlkanäle / Coolant supply / Fori lubrificazione	nein / no / no	nein / no / no	nein / no / no	nein / no / no	nein / no / no
Beschichtung / Coating / Rivestimento	ALUNIT®		ALUNIT®	ALUNIT®	ALUNIT®
Ø mm	2 - 12 mm	0.4 - 3 mm	1 - 3 mm	0.4 - 3 mm	0.4 - 3 mm
Code / Codice	7517	6345	6387	6257	6297
Seite / Page / Pagina	154	155	156	157	158
Geeignet für / Suitable for / Adatte per					
Stähle < 400 N/mm² Steels < 400 N/mm² Acciai < 400 N/mm²	■■■■	■■■■	■■■■		
Stähle < 850 N/mm² Steels < 850 N/mm² Acciai < 850 N/mm²	■■■■	■■■■	■■■■		
Stähle < 1.100 N/mm² Steels < 1.100 N/mm² Acciai < 1.100 N/mm²	■■■■	■■■■	■■■■	■■□□	■■□□
Stähle < 1.300 N/mm² Steels < 1.300 N/mm² Acciai < 1.300 N/mm²	■■■■	■■■□	■■■■	■■■□	■■■□
Stähle > 45 HRC Steels > 45 HRC Acciai > 45 HRC				■■□□ <50 HRC	■■□□ <50 HRC
Rostfreie Stähle < 850 N/mm² Stainless steels < 850 N/mm² Acciai inossidabili < 850 N/mm²	■■■□	■■□□	■■■□		
Rostfreie Stähle > 850 N/mm² Stainless steels > 850 N/mm² Acciai inossidabili > 850 N/mm²	■■□□	■□□□	■■□□		
Grauguss, Temperguss Cast iron, malleable cast iron Ghisa grigia, ghisa malleabile	■■■■	■■■□	■■■■	■■■□	■■■□
Nickel Nickel Nickel					
Titan- und Titanlegierung Titanium and titanium alloys Titanio e leghe di Titanio					
Kupfer, Messing Copper, brass Rame, ottone	■■□□	■■□□	■■□□	■■□□	■■□□
Aluminium Aluminum Alluminio	■■□□	■■□□	■■□□		
Kunststoffe Plastics Materie plastiche					

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto



Viertelrund Profilfräser Quarter circle cutters Frese a profilo raggiato		Multifräser Multi end mills Multi frese MDI	Entgrater Deburring mills Frese a smussare		
					
WN			DIN 6527		
N	N	N	N	N	N
4	4	2	4 - 6	4 - 6	4 - 6
DIN 6535-HA	DIN 6535-HA	DIN 6535-HA	DIN 6535-HB	DIN 6535-HB	DIN 6535-HB
nein / no / no	nein / no / no	nein / no / no	nein / no / no	nein / no / no	nein / no / no
	ALUNIT®	ALUNIT®		ALUNIT®	
8 - 38 mm	8 - 38 mm	3 - 12 mm	4 - 16 mm	4 - 16 mm	4 - 16 mm
6415	6417	6397	7725	7727	7755
159	159	160	161	161	162
■■■■	■■■■	■■■■	■■■■	■■■■	■■■■
■■■■	■■■■	■■■■	■■■■	■■■■	■■■■
■■■■	■■■■	■■■■	■■■■	■■■■	■■■■
■■■□	■■■■	■■■■	■■■□	■■■■	■■■□
■■□□	■■■□	■■■□	■■□□	■■■□	■■□□
■□□□	■■□□	■■□□	■□□□	■■□□	■□□□
■■■□	■■■■	■■■■	■■■□	■■■■	■■■□
■■□□	■■□□	■■□□	■■□□	■■□□	■■□□
■■□□	■■□□	■■□□	■■□□	■■□□	■■□□

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

INFORMATION	Entgrater Deburring mills Frese a smussare	Vor- und Rückwärtsentgrater Forward and reverse deburring mills Frese per sbavatura reversibili	Einzahnfräser 1-flute end mills Frese monoelica	
Die Schnittwerte für alle Werkzeuge entnehmen Sie bitte unserem MaySpeedGuide. You will find the cutting conditions for all tools in our MaySpeedGuide. Per i parametri di lavorazione per tutti gli utensili richiedete il MaySpeedGuide.				
Norm / Standard	DIN 6527	WN		
Typ / Type / Tipo	N	N	W	W
Länge / Length / Lunghezza				
Schneidenanzahl / No. of flutes / Nr. denti	4 - 6	4	1	1
Kopfform / Head type / Tipo di testa				
Drallwinkel / Spiral angle / Anglo elica			30°	30°
Schaftform / Shank type / Forma codolo	DIN 6535-HA	DIN 6535-HA	DIN 6535-HA	DIN 6535-HA
Kühlkanäle / Coolant supply / Fori lubrificazione	nein / no / no	nein / no / no	nein / no / no	nein / no / no
Beschichtung / Coating / Rivestimento	ALUNIT®	ALUNIT-S®		
Ø mm	4 - 16 mm	3 - 12 mm	2 - 12 mm	1 - 6 mm
Code / Codice	7757	6507	6205	6935
Seite / Page / Pagina	162	163	164	165
Geeignet für / Suitable for / Adatte per				
Stähle < 400 N/mm² Steels < 400 N/mm² Acciai < 400 N/mm²	■■■■	■■■■		
Stähle < 850 N/mm² Steels < 850 N/mm² Acciai < 850 N/mm²	■■■■	■■■■		
Stähle < 1.100 N/mm² Steels < 1.100 N/mm² Acciai < 1.100 N/mm²	■■■■	■■■■		
Stähle < 1.300 N/mm² Steels < 1.300 N/mm² Acciai < 1.300 N/mm²	■■■■	■■■■		
Stähle > 45 HRC Steels > 45 HRC Acciai > 45 HRC				
Rostfreie Stähle < 850 N/mm² Stainless steels < 850 N/mm² Acciai inossidabili < 850 N/mm²	■■■□	■■■□		
Rostfreie Stähle > 850 N/mm² Stainless steels > 850 N/mm² Acciai inossidabili > 850 N/mm²	■■□□	■■□□		
Grauguss, Temperguss Cast iron, malleable cast iron Ghisa grigia, ghisa malleabile	■■■■	■■■■		
Nickel Nickel Nickel				
Titan- und Titanlegierung Titanium and titanium alloys Titanio e leghe di Titanio				
Kupfer, Messing Copper, brass Rame, ottone	■■□□	■■□□		
Aluminium Aluminum Alluminio	■■□□	■■□□	■■■■	■■■■
Kunststoffe Plastics Materie plastiche			■■■□	■■■□

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

Einzahnfräser 1-flute end mills Frese monoelica		Konturenfräser Contour end mills Frese a contornare	
			
WN			
W	W	W	W
1	1		2
30°	30°		
DIN 6535-HA	DIN 6535-HA	d1=d2	d1=d2
nein / no / no	nein / no / no	nein / no / no	nein / no / no
2 - 12 mm	2 - 12 mm	6 - 14 mm	2 - 10 mm
6495	6215	7976	7986
166	167	168	169
■■■■	■■■■		
■■■□	■■■□	■■□□	■■□□

■■■■ Ideal / Ideal / Ideale | ■■■□ Besonders geeignet / Especially suitable / Particolarmente adatto | ■■□□ Geeignet / Suitable / Adatto | ■□□□ Bedingt Geeignet / Conditionally suitable / Condizionatamente adatto

TurboCut

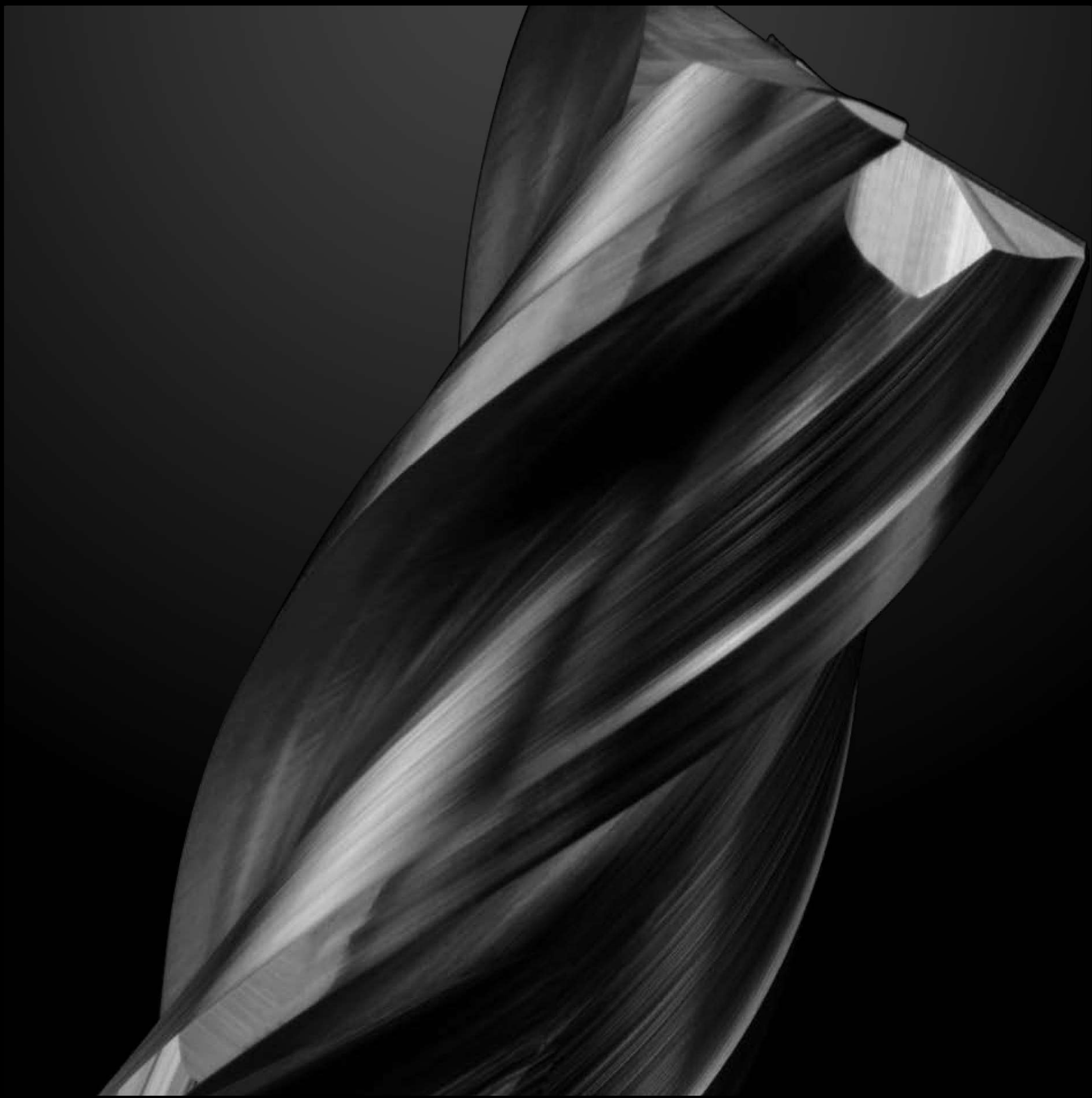
The Turbo makes the extraordinary outcome.

- Der Stirnfreiwinkel sorgt für eine geschmeidige Spanabfuhr
- Mit der S-Form Stirnlücke reduzieren sich die Axialkräfte
- Die besondere Stirnlücke minimiert die Störkanten
- Durch die geregelte Nutform wird das Risiko von Span-Stau verhindert

- The front clearance anle creates a smooth swarf removal
- With the S-shaped face gap the axial forces are reduced
- The special face gap minimizes the interfering edges
- An adjusted groove form regulates the swarf removal much better

- L'angolo di spoglia frontale garantisce un'asportazione uniforme dei trucioli
- Le forze assiali sono ridotte attraverso il gioco frontale a S
- Lo speciale gioco frontale riduce al minimo i bordi di interferenza
- La forma della scanalatura regolata previene il rischio di bloccaggio del truciolo

Speedcut 4.0



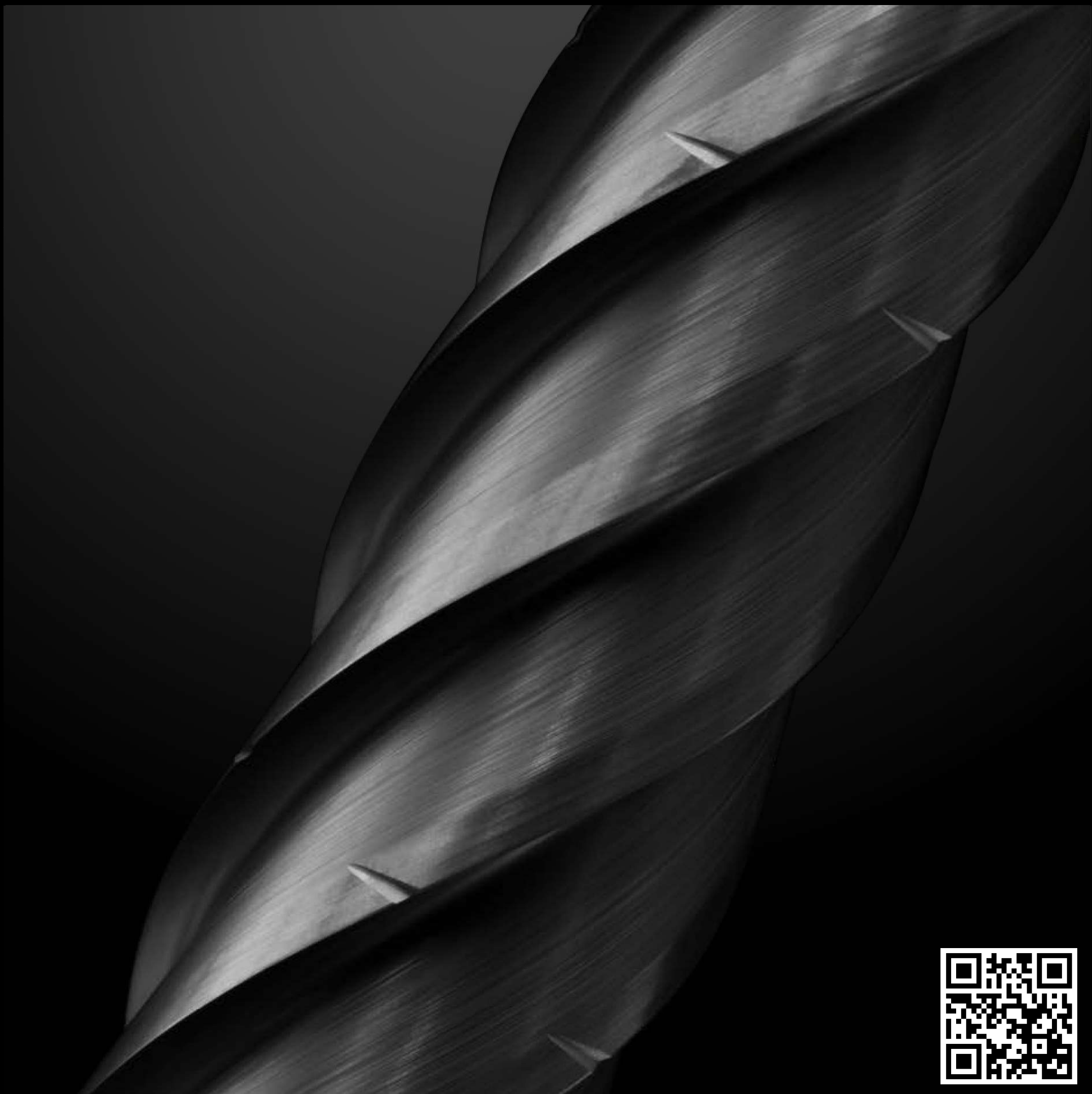
Speed creates profit.

- Enorme Zähigkeit, Härte und Bruchdehnung
- Erhöhte Standzeiten
- Deutliche Reduzierung der Stückkosten durch hohes Zeitspanvolumen
- Höhere Oberflächengüte, Stabilität und Prozesssicherheit

- Enormous toughness, hard-ness and bending strength
- Increased tool life
- Signifi cant reduced part-costs due to extremely high cutting volume
- Higher surface quality, stability and process security

- Enorme resilienza, durezza e allungamento a rottura
- Durata utile più elevata
- Netta riduzione dei costi per pezzo grazie all'elevato volume di asportazione truciolo
- Migliore fi nitura superfi ciale, stabilità e sicurezza di processosicurezza di processo

Turbo Twister



The Turbo makes the difference.

- Der perfekte Spezialist mit extrem breitem Einsatzgebiet
- Kostenersparnis durch Effizienz und lange Standzeiten
- Optimiert Automatisierung durch Trochodialfräseinsatz
- Große Auswahl für individuelle Anforderungen

- The perfect specialist with an extremely wide range of applications
- Cost savings through efficiency and long service life
- Optimized automation through trochodial milling insert
- Large selection for individual requirements

- Il perfetto specialista con un ampio campo di applicazione
- Riduzione dei costi attraverso efficienza e lunga durata
- Automazione ottimizzata tramite inserto di fresatura trocodiale
- Ample possibilità per richieste individuali I vostri vantaggi

Speedtwister

Creates optimal efficiency.

- Extreme Schnittparameter für effektivste Produktivität
- Optimierte Werkzeuggeometrie für perfekte Spankontrolle
- Enorme Schnitttiefen bis 5xD mit Trochodialbearbeitung
- Modernste Hightech-Beschichtungen setzen neue Maßstäbe in der Zerspanungs-leistung

- Extreme cutting parameters for the most effective productivity
- Optimised tool geometry for perfect chip control
- Enormous cutting depths up to 5xD with trochodial machining
- Up-to-date high-tech coatings set new standards in chip removal

- Parametri di taglio estremi per un rendimento sempre più elevato
- Geometria dell'utensile ottimizzato per un perfetto controllo del truciolo
- Enormi profondità di taglio fino a 5xD con lavorazione trocodiale
- I più moderni rivestimenti high-tech stabiliscono nuovi standard nell'asportazione truciolo

MaySpeedGuide NexGen

D **DIE „NEXT GENERATION" DER SCHNITTWERTE-BERECHNUNG**
Schnell, einfach und präzise. Mit der Schnittwerte-App „MaySpeedGuide NexGen" erhalten Sie eine exakte Berechnung der Schnittdaten für eine Vielzahl von Bearbeitungen im Bereich Fräsen, Bohren und Gewinden.

Neue Features wie der Zerspanungsrechner und 3D Daten im DXF- oder STEP-Format erleichtern Ihre Arbeit und führen Sie schnell und einfach zu Ihrem Ziel.

E **THE „NEXT GENERATION" OF CUTTING VALUE CALCULATION**
Quick, simple, and precise. The „MaySpeedGuide NexGen" cutting values app provides you with an exact calculation of cutting data for a wide range of machining operations in the field of milling, drilling and threading.

New features such as the machining calculator and 3D data in DXF or STEP format make your work easier and take you quickly and easily to your goal.

I **LA "NEXT GENERATION" DEL CALCOLO DEI VALORI DI TAGLIO**
Veloce, facile e precisa. Con l'app per il calcolo dei valori di taglio "MaySpeedGuide NexGen" ottenete un calcolo esatto dei dati di taglio per un gran numero di lavorazioni di fresatura, foratura e filettatura.

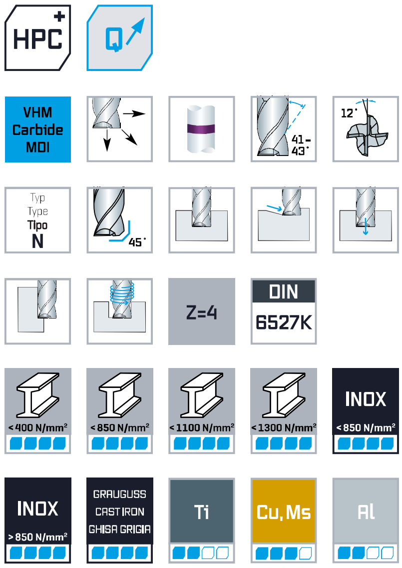
Nuove caratteristiche come il calcolatore di truciolatura e i dati in 3D in formato DXF o STEP facilitano il vostro lavoro e vi portano velocemente e facilmente al vostro obiettivo.

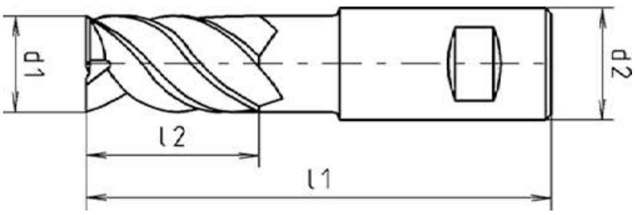
D **Hochleistungs-Schaftfräser Turbo-Cut, Allround für ein extrem breites Einsatzspektrum, ungleiche Drallsteigung, kurz**

E **High performance end mill Turbo-Cut Allround for a variety of operations and materials, unequal twist pitch, short**

I **Frese a candela ad alte prestazioni Turbo-Cut, Perfetta per diverse applicazioni e materiali, angolo elica disuguale, corto**

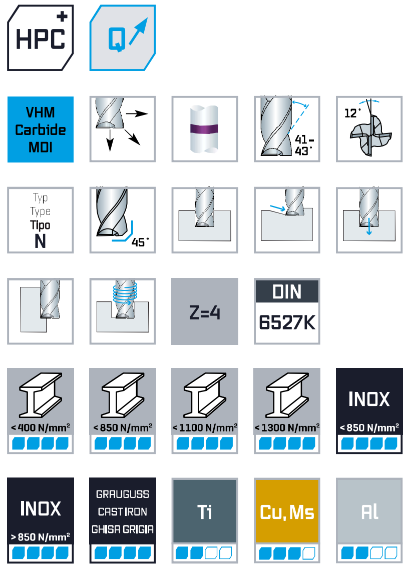
NEW





MAXDUR MAXDUR

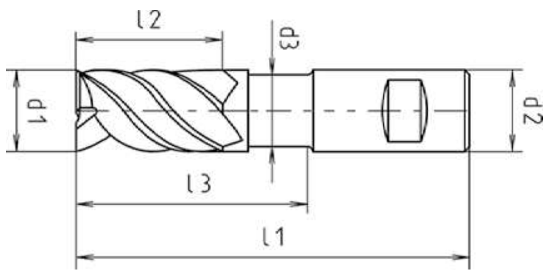
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 8012 Art.-Nr.	Code 8112 Art.-Nr.
3,00	6,00	50	5	0,08	4	0801200300100	0811200300100
4,00	6,00	54	8	0,10	4	0801200400100	0811200400100
5,00	6,00	54	9	0,13	4	0801200500100	0811200500100
6,00	6,00	54	10	0,15	4	0801200600100	0811200600100
8,00	8,00	57	12	0,20	4	0801200800100	0811200800100
10,00	10,00	66	14	0,25	4	0801201000100	0811201000100
12,00	12,00	73	16	0,30	4	0801201200100	0811201200100
16,00	16,00	82	22	0,40	4	0801201600100	0811201600100
20,00	20,00	92	26	0,50	4	0801202000100	0811202000100
25,00	25,00	98	26	0,63	4	0801202500100	0811202500100



D **Hochleistungs-Schaftfräser Turbo-Cut, Allround für ein extrem breites Einsatzspektrum, ungleiche Drallsteigung, freigestellt, kurz**

E **High performance end mill Turbo-Cut Allround for a variety of operations and materials, unequal twist pitch, neck, short**

I **Frese a candela ad alte prestazioni Turbo-Cut, Perfetta per diverse applicazioni e materiali, angolo elica disuguale, libero, corto**

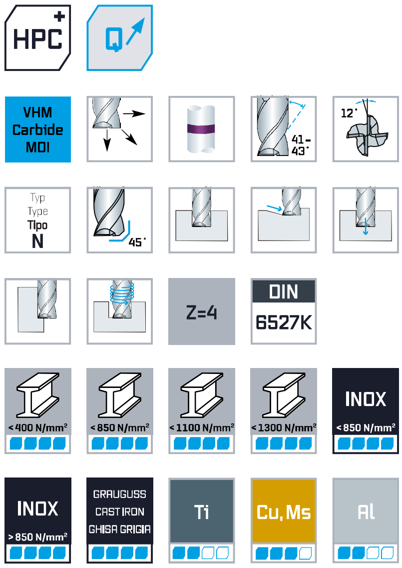


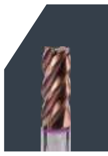
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	DIN 6535-HA MAXDUR Code 8022 Art.-Nr.	DIN 6535-HB MAXDUR Code 8122 Art.-Nr.
3,00	6,00	2,90	50	5	8	0,08	4	0802200300100	0812200300100
4,00	6,00	3,80	54	8	11	0,10	4	0802200400100	0812200400100
5,00	6,00	4,70	54	9	13	0,13	4	0802200500100	0812200500100
6,00	6,00	5,60	54	10	13	0,15	4	0802200600100	0812200600100
8,00	8,00	7,50	57	12	19	0,20	4	0802200800100	0812200800100
10,00	10,00	9,50	66	14	22	0,25	4	0802201000100	0812201000100
12,00	12,00	11,50	73	16	26	0,30	4	0802201200100	0812201200100
16,00	16,00	15,50	82	22	32	0,40	4	0802201600100	0812201600100
20,00	20,00	19,50	92	26	38	0,50	4	0802202000100	0812202000100
25,00	25,00	24,50	98	26	40	0,63	4	0802202500100	0812202500100

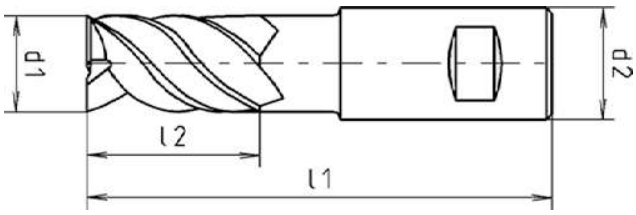
D **Hochleistungs-Schaftfräser Turbo-Cut, Allround für ein extrem breites Einsatzspektrum, ungleiche Drallsteigung, lang**

E High performance end mill Turbo-Cut Allround for a variety of operations and materials, unequal twist pitch, long

I Frese a candela ad alte prestazioni Turbo-Cut, Perfetta per diverse applicazioni e materiali, angolo elica disuguale, lungo







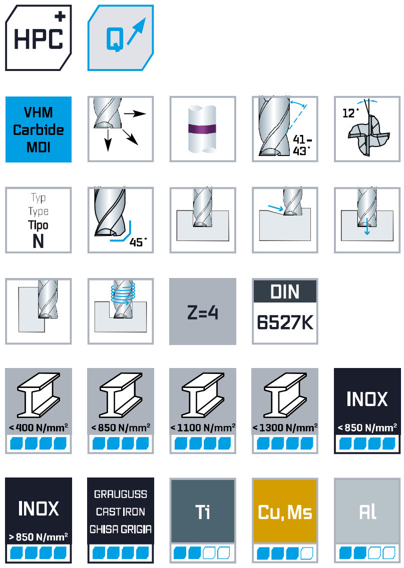
						MAXDUR	MAXDUR
d1 h10 mm	**d2 h6 mm**	**l1 mm**	**l2 mm**	**45°**	**Z**	**Code 8013 Art.-Nr.**	**Code 8113 Art.-Nr.**
3,00	6,00	57	8	0,08	4	0801300300100	0811300300100
4,00	6,00	57	11	0,10	4	0801300400100	0811300400100
5,00	6,00	57	13	0,13	4	0801300500100	0811300500100
6,00	6,00	57	13	0,15	4	0801300600100	0811300600100
7,00	8,00	63	16	0,18	4	0801300700100	0811300700100
8,00	8,00	63	19	0,20	4	0801300800100	0811300800100
9,00	10,00	72	19	0,23	4	0801300900100	0811300900100
10,00	10,00	72	22	0,25	4	0801301000100	0811301000100
11,00	12,00	83	26	0,28	4	0801301100100	0811301100100
12,00	12,00	83	26	0,30	4	0801301200100	0811301200100
14,00	14,00	83	26	0,35	4	0801301400100	0811301400100
16,00	16,00	92	32	0,40	4	0801301600100	0811301600100
18,00	18,00	92	32	0,45	4	0801301800100	0811301800100
20,00	20,00	104	38	0,50	4	0801302000100	0811302000100
25,00	25,00	120	45	0,63	4	0801302500100	0811302500100

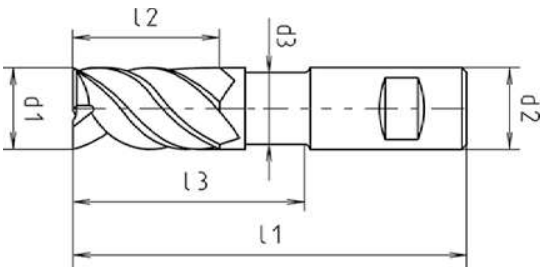
D **Hochleistungs-Schaftfräser Turbo-Cut, Allround für ein extrem breites Einsatzspektrum, ungleiche Drallsteigung, freigestellt, lang**

E **High performance end mill Turbo-Cut Allround for a variety of operations and materials, unequal twist pitch, neck, long**

I **Frese a candela ad alte prestazioni Turbo-Cut, Perfetta per diverse applicazioni e materiali, angolo elica disuguale, libero, lungo**

NEW



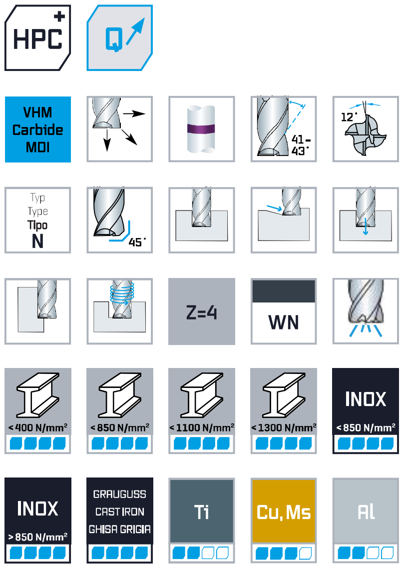


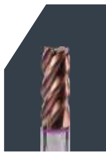
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	DIN 6535-HA MAXDUR Code 8023 Art.-Nr.	DIN 6535-HB MAXDUR Code 8123 Art.-Nr.
3,00	6,00	2,90	57	8	14	0,08	4	0802300300100	0812300300100
4,00	6,00	2,60	57	11	16	0,1	4	0802300400100	0812300400100
5,00	6,00	4,60	57	13	18	0,13	4	0802300500100	0812300500100
6,00	6,00	5,50	57	13	21	0,15	4	0802300600100	0812300600100
7,00	8,00	6,50	63	16	24	0,18	4	0802300700100	0812300700100
8,00	8,00	7,50	63	19	27	0,20	4	0802300800100	0812300800100
9,00	10,00	8,50	72	19	29	0,23	4	0802300900100	0812300900100
10,00	10,00	9,50	72	22	32	0,25	4	0802301000100	0812301000100
11,00	12,00	10,50	83	26	34	0,28	4	0802301100100	0812301100100
12,00	12,00	11,50	83	26	38	0,30	4	0802301200100	0812301200100
14,00	14,00	13,50	83	26	38	0,35	4	0802301400100	0812301400100
16,00	16,00	15,00	92	32	44	0,40	4	0802301600100	0812301600100
18,00	18,00	17,00	92	32	44	0,45	4	0802301800100	0812301800100
20,00	20,00	19,00	104	38	54	0,50	4	0802302000100	0812302000100
25,00	25,00	24,00	120	45	66	0,63	4	0802302500100	0812302500100

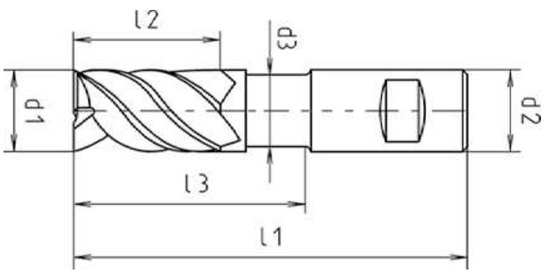
D **Hochleistungs-Schaftfräser Turbo-Cut, Allround für ein extrem breites Einsatzspektrum, ungleiche Drallsteigung, freigestellt, XXL, mit Innenkühlung**

E **High performance end mill Turbo-Cut Allround for a variety of operations and materials, unequal twist pitch, neck, XXL, with internal coolant supply**

I **Frese a candela ad alte prestazioni Turbo-Cut, Perfetta per diverse applicazioni e materiali, angolo elica disuguale, libero, XXL, con fori lubrificazione**





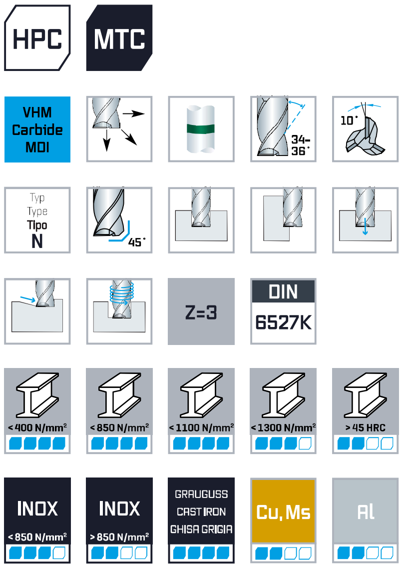


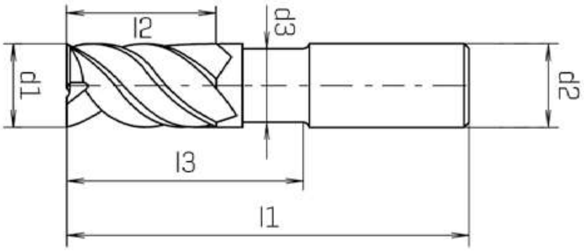
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	MAXDUR Code 8025 Art.-Nr.	MAXDUR Code 8125 Art.-Nr.
6,00	6,00	5,70	80	9	42	0,15	4	0802500600100	0812500600100
8,00	8,00	7,70	100	12	62	0,20	4	0802500800100	0812500800100
10,00	10,00	9,70	100	15	58	0,25	4	0802501000100	0812501000100
12,00	12,00	11,70	120	18	73	0,30	4	0802501200100	0812501200100
16,00	16,00	15,70	140	24	90	0,40	4	0802501600100	0812501600100

D VHM-Schaftfräser Speedcut-Universal, kurz, freigestellt, Dreischneider, ungleiche Drallsteigung

E Solid carbide end mill Speedcut-Universal, short series, neck, three flutes, different spiral angles

I Frese frontali MDI Speedcut-Universali, serie corta, libero, 3 taglienti, angolo elica disuguale





ALUNIT-S®

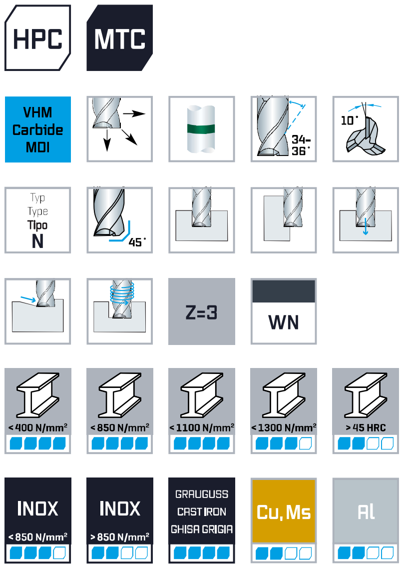
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 7367 Art.-Nr.
2,00	4,00	1,95	40	3	10	0,06	3	0736700200100
3,00	6,00	2,80	50	4	11	0,10	3	0736700300100
4,00	6,00	3,80	54	5	12	0,10	3	0736700400100
5,00	6,00	4,70	54	6	14	0,10	3	0736700500100
6,00	6,00	5,60	54	7	16	0,20	3	0736700600100
8,00	8,00	7,50	58	9	20	0,20	3	0736700800100
10,00	10,00	9,50	66	11	24	0,20	3	0736701000100

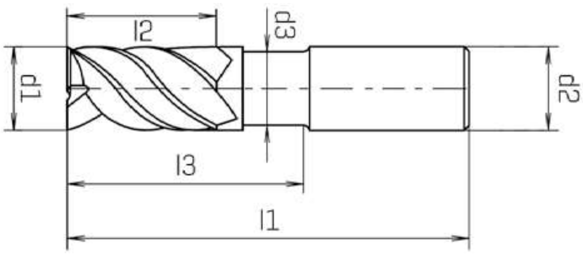
Optional ohne Aufpreis auch mit Weldon-Schaft (DIN 6535-HB) lieferbar. / Also available with Weldon-shank (DIN 6535-HB) without extra charge. / Anche disponibili con attacco Weldon (DIN 6535-HB) senza prezzo aggiuntivo.

D VHM-Schaftfräser Speedcut-Universal, lang, freigestellt, Dreischneider, ungleiche Drallsteigung

E Solid carbide end mill Speedcut-Universal, long, free, three-flute, unequal helix

I Frese frontali MDI Speedcut-Universali, serie lunga, libero, 3 taglienti, angolo elica disuguale





DIN 6535-HA

ALUNIT-S®

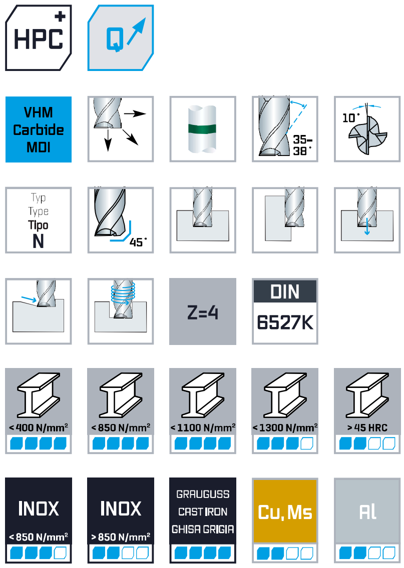
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 7377 Art.-Nr.
3,00	6,00	2,90	57	8	14	0,10	3	0737700300100
4,00	6,00	3,60	57	8	16	0,10	3	0737700400100
5,00	6,00	4,60	57	10	18	0,10	3	0737700500100
6,00	6,00	5,50	57	13	21	0,20	3	0737700600100
8,00	8,00	7,50	63	19	27	0,20	3	0737700800100
10,00	10,00	9,50	72	22	32	0,20	3	0737701000100

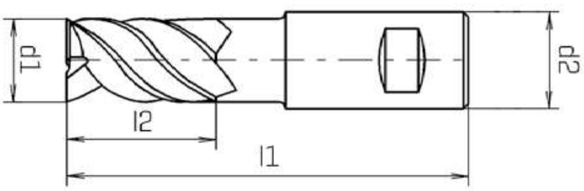
Optional ohne Aufpreis auch mit Weldon-Schaft (DIN 6535-HB) lieferbar. / Also available with Weldon-shank (DIN 6535-HB) without extra charge. / Anche disponibili con attacco Weldon (DIN 6535-HB) senza prezzo aggiuntivo.

D **HPC-Schaftfräser Speedcut 4.0-Universal, kurz, Vierschneider, ungleiche Drallsteigung**

E **HPC end mill Speedcut 4.0-Universal, short series, four flutes, different spiral angles**

I **Frese frontali HPC Speed cut 4.0-Universali, serie corta, 4 taglienti, angolo elica disuguale**



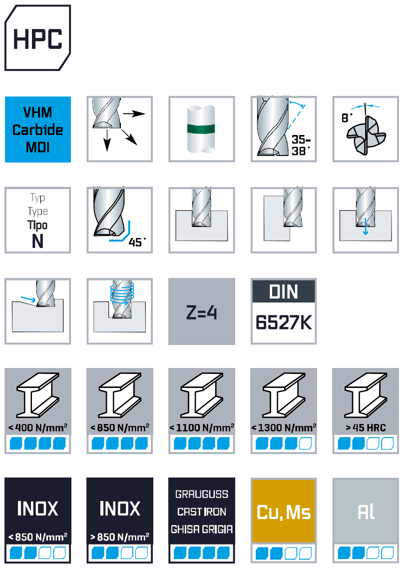


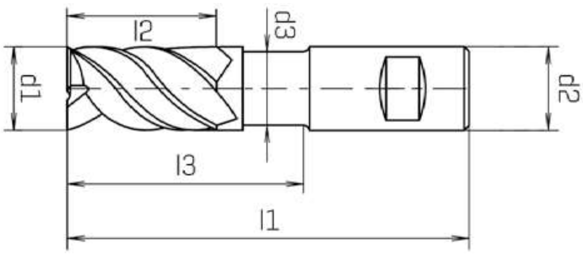
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	TWINDUR Code 8207 Art.-Nr.	TWINDUR Code 8707 Art.-Nr.
3,00	6,00	50	5	0,15	4	0820700300100	0870700300100
4,00	6,00	54	8	0,15	4	0820700400100	0870700400100
5,00	6,00	54	9	0,25	4	0820700500100	0870700500100
6,00	6,00	54	10	0,25	4	0820700600100	0870700600100
8,00	8,00	57	12	0,25	4	0820700800100	0870700800100
10,00	10,00	66	14	0,25	4	0820701000100	0870701000100
12,00	12,00	73	16	0,25	4	0820701200100	0870701200100
16,00	16,00	82	22	0,35	4	0820701600100	0870701600100
20,00	20,00	92	26	0,35	4	0820702000100	0870702000100

D VHM-Schaftfräser Speedcut-Universal, kurz, freigestellt, Vierschneider, ungleiche Drallsteigung

E Solid carbide end mill Speedcut-Universal, short series, neck, four flutes, different spiral angles

I Frese frontali MDI Speedcut-Universali, serie corta, libero, 4 taglienti, angolo elica disuguale



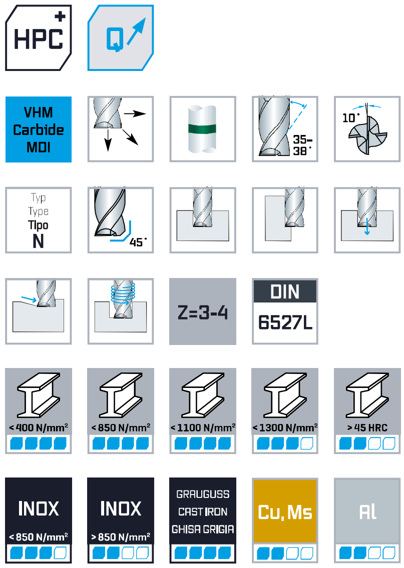


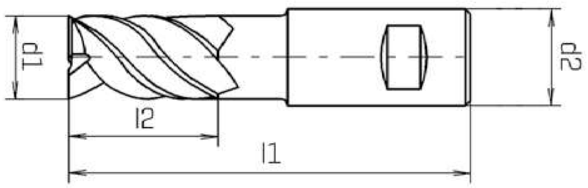
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	DIN 6535-HA ALUNIT-S® Code 7387 Art.-Nr.	DIN 6535-HB ALUNIT-S® Code 7487 Art.-Nr.
3,00	6,00	2,90	50	5	8	0,15	4	0738700300100	0748700300100
4,00	6,00	3,80	54	8	11	0,15	4	0738700400100	0748700400100
5,00	6,00	4,70	54	9	13	0,25	4	0738700500100	0748700500100
6,00	6,00	5,60	54	10	13	0,25	4	0738700600100	0748700600100
8,00	8,00	7,50	57	12	19	0,25	4	0738700800100	0748700800100
10,00	10,00	9,50	66	14	22	0,25	4	0738701000100	0748701000100
12,00	12,00	11,50	73	16	26	0,25	4	0738701200100	0748701200100
16,00	16,00	15,50	82	22	32	0,35	4	0738701600100	0748701600100
20,00	20,00	19,50	92	26	38	0,35	4	0738702000100	0748702000100

D **HPC-Schaftfräser Speedcut 4.0-Universal, lang, Vierschneider, ungleiche Drallsteigung**

E **HPC end mill Speedcut 4.0-Universal, long series, four flutes, different spiral angles**

I **Frese frontali HPC Speed cut 4.0-Universali, serie lunga, 4 taglienti, angolo elica disuguale**



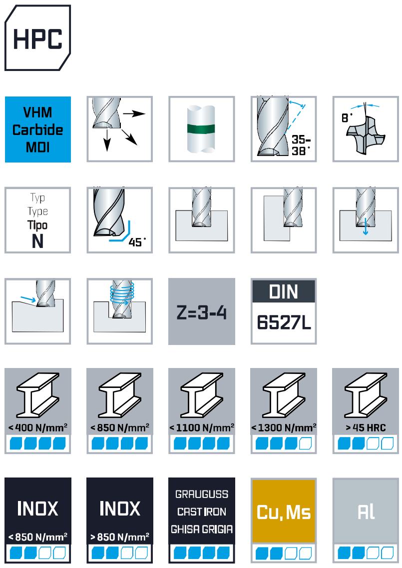


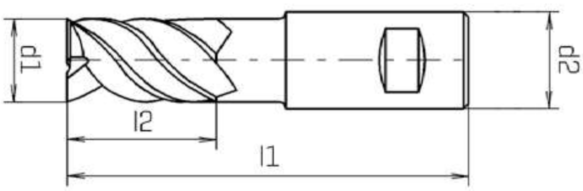
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 8217 Art.-Nr.	Code 8717 Art.-Nr.
2,00	4,00	40	5	0,06	3	0821700200100	
3,00	6,00	57	8	0,15	4	0821700300100	0871700300100
4,00	6,00	57	11	0,15	4	0821700400100	0871700400100
5,00	6,00	57	13	0,25	4	0821700500100	0871700500100
6,00	6,00	57	13	0,25	4	0821700600100	0871700600100
7,00	8,00	63	16	0,25	4	0821700700100	0871700700100
8,00	8,00	63	19	0,25	4	0821700800100	0871700800100
9,00	10,00	72	19	0,25	4	0821700900100	0871700900100
10,00	10,00	72	22	0,25	4	0821701000100	0871701000100
11,00	12,00	83	26	0,25	4	0821701100100	0871701100100
12,00	12,00	83	26	0,25	4	0821701200100	0871701200100
14,00	14,00	83	26	0,35	4	0821701400100	0871701400100
16,00	16,00	92	32	0,35	4	0821701600100	0871701600100
20,00	20,00	104	38	0,35	4	0821702000100	0871702000100

D VHM-Schaftfräser Speedcut-Universal, lang, Vierschneider, ungleiche Drallsteigung

E Solid carbide end mill Speedcut-Universal, long series, four flutes, different spiral angles

I Frese frontali MDI Speedcut-Universali, serie lunga, 4 taglienti, angolo elica disuguale



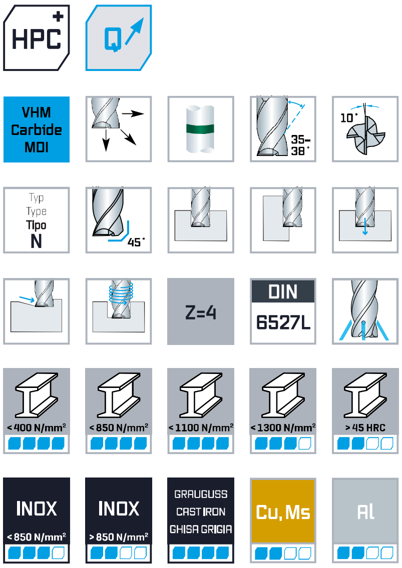


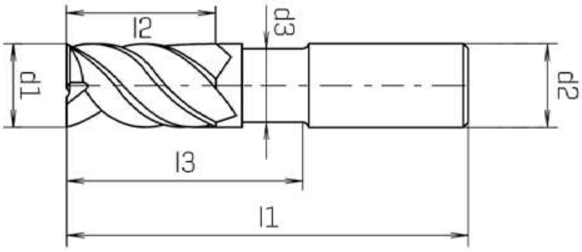
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	DIN 6535-HA ALUNIT-S® Code 7217 Art.-Nr.	DIN 6535-HB ALUNIT-S® Code 7717 Art.-Nr.
2,00	4,00	40	5	0,06	3	0721700200100	
3,00	6,00	57	8	0,15	4	0721700300100	0771700300100
4,00	6,00	57	11	0,15	4	0721700400100	0771700400100
5,00	6,00	57	13	0,25	4	0721700500100	0771700500100
6,00	6,00	57	13	0,25	4	0721700600100	0771700600100
8,00	8,00	63	19	0,25	4	0721700800100	0771700800100
10,00	10,00	72	22	0,25	4	0721701000100	0771701000100
12,00	12,00	83	26	0,25	4	0721701200100	0771701200100
14,00	14,00	83	26	0,35	4	0721701400100	0771701400100
16,00	16,00	92	32	0,35	4	0721701600100	0771701600100
20,00	20,00	104	38	0,35	4	0721702000100	0771702000100

D **HPC-Schaftfräser Speedcut 4.0-Universal, lang, freigestellt, Vierschneider, ungleiche Drallsteigung, mit Innenkühlung**

E HPC end mill Speedcut 4.0-Universal, long series, neck, four flutes, different spiral angles, with internal coolant supply

I Frese frontali HPC Speed cut 4.0-Universali, serie lunga, libero, 4 taglienti, angolo elica disuguale, con fori lubrificazione



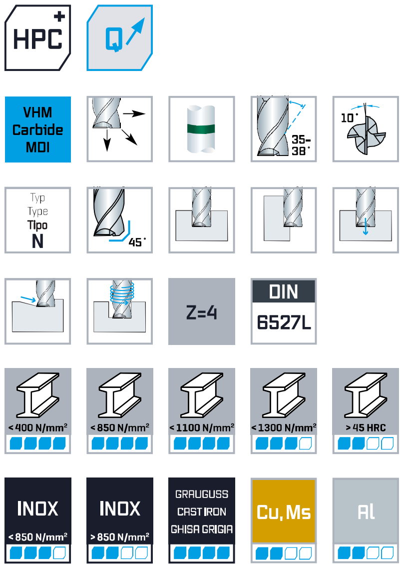


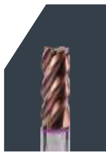
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	DIN 6535-HA TWINDUR Code 8527 Art.-Nr.	DIN 6535-HB TWINDUR Code 8537 Art.-Nr.
6,00	6,00	5,50	57	13	21	0,25	4	0852700600100	0853700600100
8,00	8,00	7,50	63	19	27	0,25	4	0852700800100	0853700800100
10,00	10,00	9,50	72	22	32	0,25	4	0852701000100	0853701000100
12,00	12,00	11,50	83	26	38	0,25	4	0852701200100	0853701200100
14,00	14,00	13,50	83	26	38	0,35	4	0852701400100	0853701400100
16,00	16,00	15,00	92	32	44	0,35	4	0852701600100	0853701600100
20,00	20,00	19,00	104	38	54	0,35	4	0852702000100	0853702000100

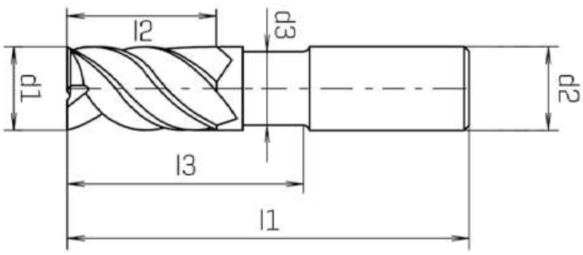
D **HPC-Schaftfräser Speedcut 4.0-Universal, lang, freigestellt, Vierschneider, ungleiche Drallsteigung**

E HPC end mill Speedcut 4.0-Universal, long series, neck, four flutes, different spiral angles

I Frese frontali HPC Speedcut 4.0-Universali, serie lunga, libero, 4 taglienti, angolo elica disuguale





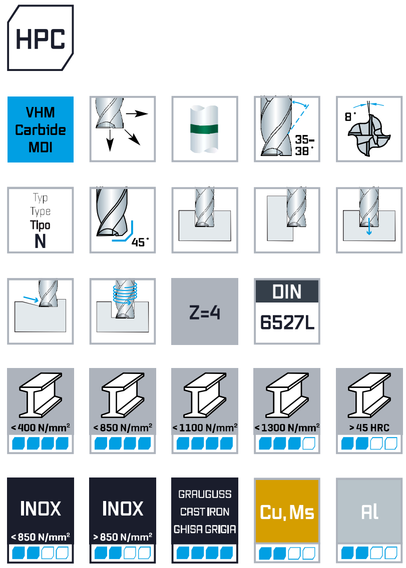


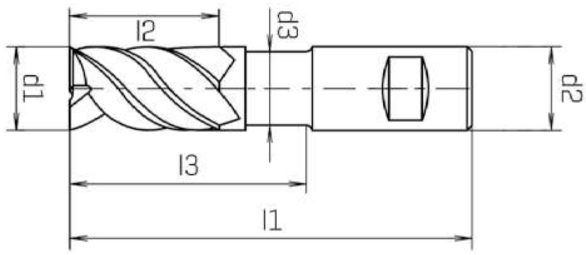
								TWINDUR	TWINDUR
	d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 8317 Art.-Nr.	Code 8417 Art.-Nr.
	3,00	6,00	2,90	57	8	14	0,15	4	0831700300100	0841700300100
	4,00	6,00	3,60	57	11	16	0,15	4	0831700400100	0841700400100
	5,00	6,00	4,60	57	13	18	0,25	4	0831700500100	0841700500100
	6,00	6,00	5,50	57	13	21	0,25	4	0831700600100	0841700600100
	8,00	8,00	7,50	63	19	27	0,25	4	0831700800100	0841700800100
	10,00	10,00	9,50	72	22	32	0,25	4	0831701000100	0841701000100
	12,00	12,00	11,50	83	26	38	0,25	4	0831701200100	0841701200100
	14,00	14,00	13,50	83	26	38	0,35	4	0831701400100	0841701400100
	16,00	16,00	15,00	92	32	44	0,35	4	0831701600100	0841701600100
	20,00	20,00	19,00	104	38	54	0,35	4	0831702000100	0841702000100
NEW	**25,00**	25,00	24,00	120	45	67	0,35	4		0841702500100

D **VHM-Schaftfräser Speedcut-Universal, lang, freigestellt, Vierschneider, ungleiche Drallsteigung**

E **Solid carbide end mill Speedcut-Universal, long series, neck, four flutes, different spiral angles**

I **Frese frontali MDI Speedcut–Universali, serie lunga, libero, 4 taglienti, angolo elica disuguale**



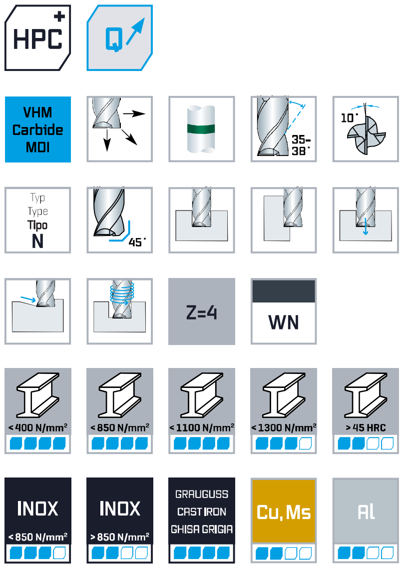


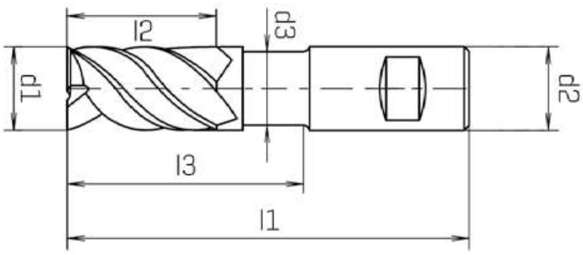
								DIN 6535-HA ALUNIT-S®	DIN 6535-HB ALUNIT-S®
d1 h10 mm	**d2 h6 mm**	**d3 mm**	**l1 mm**	**l2 mm**	**l3 mm**	**45°**	**Z**	**Code 7317 Art.-Nr.**	**Code 7417 Art.-Nr.**
3,00	6,00	2,90	57	8	14	0,15	4	0731700300100	0741700300100
4,00	6,00	3,60	57	11	16	0,15	4	0731700400100	0741700400100
5,00	6,00	4,60	57	13	18	0,25	4	0731700500100	0741700500100
6,00	6,00	5,50	57	13	21	0,25	4	0731700600100	0741700600100
8,00	8,00	7,50	63	19	27	0,25	4	0731700800100	0741700800100
10,00	10,00	9,50	72	22	32	0,25	4	0731701000100	0741701000100
12,00	12,00	11,50	83	26	38	0,25	4	0731701200100	0741701200100
16,00	16,00	15,00	92	32	44	0,35	4	0731701600100	0741701600100
20,00	20,00	19,00	104	38	54	0,35	4	0731702000100	0741702000100
25,00	25,00	24,00	120	45	66	0,35	4	0731702500100	0741702500100

D **HPC-Schaftfräser Speedcut 4.0-Universal, extra lang XL, freigestellt, Vierschneider, ungleiche Drallsteigung**

E **HPC end mill Speedcut 4.0-Universal, extra long series XL, neck, four flutes, different spiral angles**

I **Frese frontali HPC Speed cut 4.0-Universali, serie extra lunga XL, libero, 4 taglienti, angolo elica disuguale**



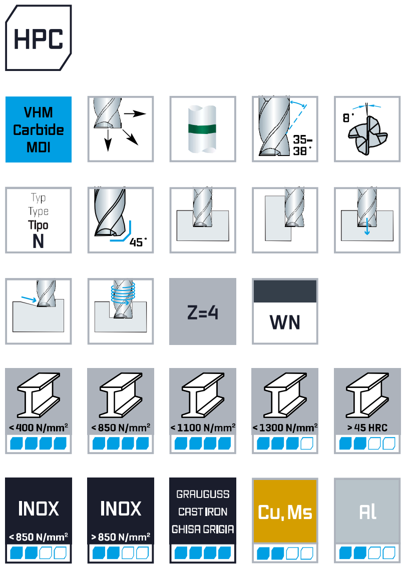


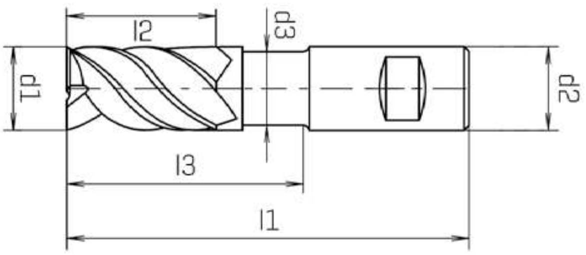
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	DIN 6535-HA TWINDUR Code 8237 Art.-Nr.	DIN 6535-HB TWINDUR Code 8737 Art.-Nr.
5,00	6,00	4,70	62	13	26	0,25	4	0823700500100	0873700500100
6,00	6,00	5,60	62	13	26	0,25	4	0823700600100	0873700600100
8,00	8,00	7,50	70	19	34	0,25	4	0823700800100	0873700800100
10,00	10,00	9,50	80	22	40	0,25	4	0823701000100	0873701000100
12,00	12,00	11,50	95	26	50	0,25	4	0823701200100	0873701200100
16,00	16,00	15,50	105	32	57	0,35	4	0823701600100	0873701600100
20,00	20,00	19,50	124	38	71	0,35	4	0823702000100	0873702000100

VHM-Schaftfräser Speedcut-Universal, extra lang XL, freigestellt, Vierschneider, ungleiche Drallsteigung

Solid carbide end mill Speedcut-Universal, extra long series XL, neck, four flutes, different spiral angles

Frese frontali MDI Speedcut–Universali, serie extra lunga XL, libero, 4 taglienti, angolo elica disuguale





ALUNIT-S®

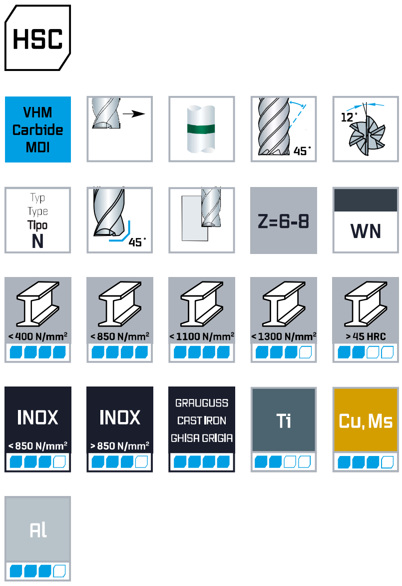
ALUNIT-S®

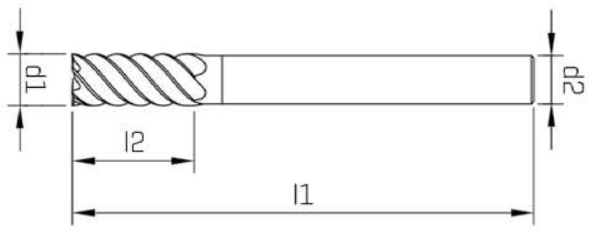
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 7237 Art.-Nr.	Code 7737 Art.-Nr.
5,00	6,00	4,70	62	13	26	0,25	4	0723700500100	0773700500100
6,00	6,00	5,60	62	13	26	0,25	4	0723700600100	0773700600100
8,00	8,00	7,50	70	19	34	0,25	4	0723700800100	0773700800100
10,00	10,00	9,50	80	22	40	0,25	4	0723701000100	0773701000100
12,00	12,00	11,50	95	26	50	0,25	4	0723701200100	0773701200100
14,00	14,00	13,50	95	26	50	0,35	4	0723701400100	0773701400100
16,00	16,00	15,50	105	32	57	0,35	4	0723701600100	0773701600100
20,00	20,00	19,50	124	38	71	0,35	4	0723702000100	0773702000100
25,00	25,00	24,50	148	45	91	0,35	4	0723702500100	0773702500100

D VHM-Mehrzahn Schlichtfräser Speedcut-Universal, lang

E Solid carbide multi flute finishing end mill Speedcut-Universal, long series

I Fresa in metallo duro multitagliente per finitura Speedcut-Universale, serie lunga





DIN 6535-HA

ALUNIT-S®

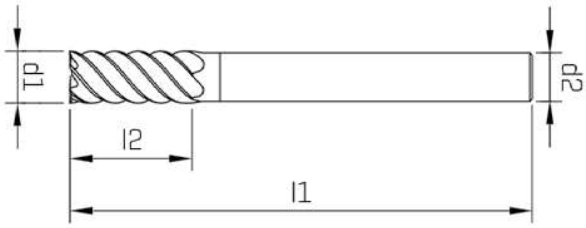
d1 e8 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 7327 Art.-Nr.
4,00	6,00	57	11	0,05	6	0732700400100
5,00	6,00	57	13	0,05	6	0732700500100
6,00	6,00	57	15	0,05	6	0732700600100
8,00	8,00	63	21	0,05	6	0732700800100
10,00	10,00	72	25	0,05	6	0732701000100
12,00	12,00	83	30	0,05	6	0732701200100
16,00	16,00	92	36	0,10	8	0732701600100
20,00	20,00	104	45	0,10	8	0732702000100

Optional ohne Aufpreis auch mit Weldon-Schaft (DIN 6535-HB) lieferbar. / Also available with Weldon-shank (DIN 6535-HB) without extra charge. / Anche disponibili con attacco Weldon (DIN 6535-HB) senza prezzo aggiuntivo.

D **VHM-Mehrzahn Schlichtfräser Speedcut-Universal, extra lang XL**

E **Solid carbide multi flute finishing end mill Speedcut-Universal, extra long series XL**

I **Fresa in metallo duro multitagliente per finitura Speedcut-Universale, extra serie lunga XL**



DIN 6535-HA
ALUNIT-S®

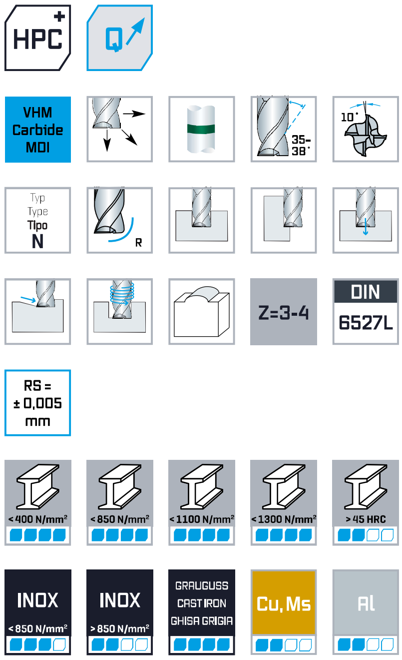
d1 e8 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 7337 Art.-Nr.
4,00	6,00	57	14	0,05	6	0733700400100
5,00	6,00	62	17	0,05	6	0733700500100
6,00	6,00	62	20	0,05	6	0733700600100
8,00	8,00	70	26	0,05	6	0733700800100
10,00	10,00	80	32	0,05	6	0733701000100
12,00	12,00	95	38	0,05	6	0733701200100
16,00	16,00	105	50	0,10	8	0733701600100
20,00	20,00	124	62	0,10	8	0733702000100

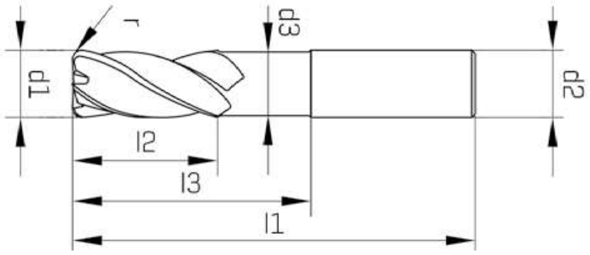
Optional ohne Aufpreis auch mit Weldon-Schaft (DIN 6535-HB) lieferbar. / Also available with Weldon-shank (DIN 6535-HB) without extra charge. / Anche disponibili con attacco Weldon (DIN 6535-HB) senza prezzo aggiuntivo.

D **HPC-Schaftfräser mit Eckenradius Speedcut 4.0-Universal, lang, freigestellt, Vierschneider, ungleiche Drallsteigung**

E **HPC corner radius end mill Speedcut 4.0-Universal, long series, neck, four flutes, different spiral angles**

I **Frese frontali HPC con spigolo raggiato Speedcut 4.0-Universali, serie lunga, libero, 4 taglienti, angolo elica disuguale**





DIN 6535-HA
TWINDUR

d1 h10 mm	r	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 8547 Art.-Nr.
2,00	**0,2**	4,00	1,95	40	5	10	3	0854700202100
2,00	**0,3**	4,00	1,95	40	5	10	3	0854700203100
3,00	**0,3**	6,00	2,90	57	8	14	4	0854700303100
3,00	**0,5**	6,00	2,90	57	8	14	4	0854700305100
4,00	**0,5**	6,00	3,60	57	11	16	4	0854700405100
4,00	**1**	6,00	3,60	57	11	16	4	0854700410100
5,00	**0,5**	6,00	4,60	57	13	18	4	0854700505100
5,00	**1**	6,00	4,60	57	13	18	4	0854700510100
5,00	**1,5**	6,00	4,60	57	13	18	4	0854700515100
6,00	**0,5**	6,00	5,50	57	13	21	4	0854700605100
6,00	**1**	6,00	5,50	57	13	21	4	0854700610100
6,00	**1,5**	6,00	5,50	57	13	21	4	0854700615100
6,00	**2**	6,00	5,50	57	13	21	4	0854700620100
8,00	**0,5**	8,00	7,50	63	19	27	4	0854700805100
8,00	**1**	8,00	7,50	63	19	27	4	0854700810100
8,00	**1,5**	8,00	7,50	63	19	27	4	0854700815100
8,00	**2**	8,00	7,50	63	19	27	4	0854700820100
10,00	**0,5**	10,00	9,50	72	22	32	4	0854701005100
10,00	**1**	10,00	9,50	72	22	32	4	0854701010100

DIN 6535-HA
TWINDUR

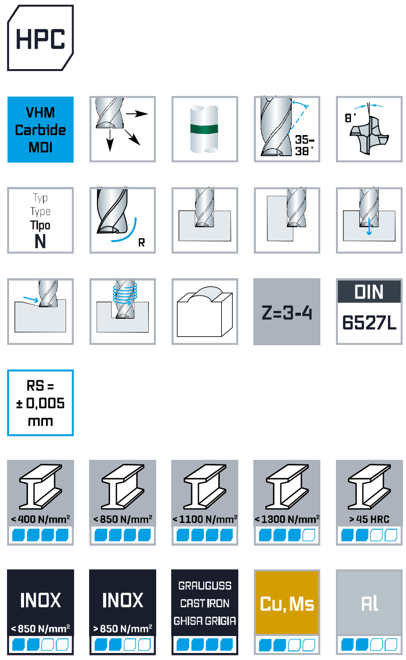
d1 h10 mm	r	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 8547 Art.-Nr.
10,00	**1,5**	10,00	9,50	72	22	32	4	0854701015100
10,00	**2**	10,00	9,50	72	22	32	4	0854701020100
12,00	**0,5**	12,00	11,50	83	26	38	4	0854701205100
12,00	**1**	12,00	11,50	83	26	38	4	0854701210100
12,00	**1,5**	12,00	11,50	83	26	38	4	0854701215100
12,00	**2**	12,00	11,50	83	26	38	4	0854701220100
12,00	**2,5**	12,00	11,50	83	26	38	4	0854701225100
12,00	**3**	12,00	11,50	83	26	38	4	0854701230100
16,00	**1**	16,00	15,00	92	32	44	4	0854701610100
16,00	**1,5**	16,00	15,00	92	32	44	4	0854701615100
16,00	**2**	16,00	15,00	92	32	44	4	0854701620100
16,00	**3**	16,00	15,00	92	32	44	4	0854701630100
20,00	**1**	20,00	19,00	104	38	54	4	0854702010100
20,00	**1,5**	20,00	19,00	104	38	54	4	0854702015100
20,00	**2**	20,00	19,00	104	38	54	4	0854702020100
20,00	**2,5**	20,00	19,00	104	38	54	4	0854702025100
20,00	**4**	20,00	19,00	104	38	54	4	0854702040100
20,00	**5**	20,00	19,00	104	38	54	4	0854702050100

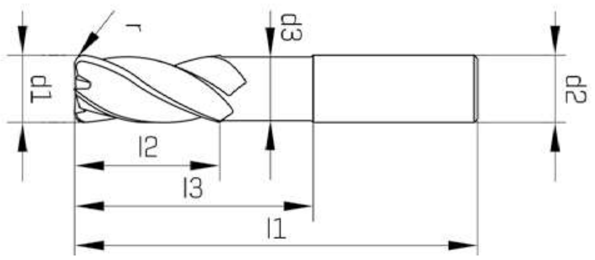
Optional ohne Aufpreis auch mit Weldon-Schaft (DIN 6535-HB) lieferbar. / Also available with Weldon-shank (DIN 6535-HB) without extra charge. / Anche disponibili con attacco Weldon (DIN 6535-HB) senza prezzo aggiuntivo.

VHM-Schaftfräser mit Eckenradius Speedcut-Universal, lang, freigestellt, Vierschneider, ungleiche Drallsteigung

Solid carbide corner radius end mill Speedcut-Universal, long series, neck, four flutes, different spiral angles

Frese frontali MDI con spigolo raggiato Speedcut-Universali, serie lunga, libero, 4 taglienti, angolo elica disuguale





DIN 6535-HA ALUNIT-S®

d1 h10 mm	r	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 6447 Art.-Nr.
2,00	0,2	4,00	1,95	40	5	10	3	0644700202100
2,00	0,3	4,00	1,95	40	5	10	3	0644700203100
3,00	0,3	6,00	2,90	57	8	14	4	0644700303100
3,00	0,5	6,00	2,90	57	8	14	4	0644700305100
4,00	0,5	6,00	3,60	57	11	16	4	0644700405100
4,00	1	6,00	3,60	57	11	16	4	0644700410100
5,00	0,5	6,00	4,60	57	13	18	4	0644700505100
5,00	1	6,00	4,60	57	13	18	4	0644700510100
5,00	1,5	6,00	4,60	57	13	18	4	0644700515100
6,00	0,5	6,00	5,50	57	13	21	4	0644700605100
6,00	1	6,00	5,50	57	13	21	4	0644700610100
6,00	1,5	6,00	5,50	57	13	21	4	0644700615100
6,00	2	6,00	5,50	57	13	21	4	0644700620100
8,00	0,5	8,00	7,50	63	19	27	4	0644700805100
8,00	1	8,00	7,50	63	19	27	4	0644700810100
8,00	1,5	8,00	7,50	63	19	27	4	0644700815100
8,00	2	8,00	7,50	63	19	27	4	0644700820100
10,00	0,5	10,00	9,50	72	22	32	4	0644701005100
10,00	1	10,00	9,50	72	22	32	4	0644701010100

DIN 6535-HA ALUNIT-S®

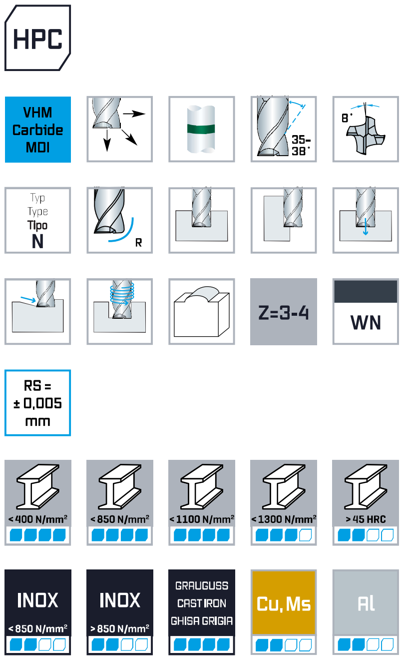
d1 h10 mm	r	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 6447 Art.-Nr.
10,00	1,5	10,00	9,50	72	22	32	4	0644701015100
10,00	2	10,00	9,50	72	22	32	4	0644701020100
12,00	0,5	12,00	11,50	83	26	38	4	0644701205100
12,00	1	12,00	11,50	83	26	38	4	0644701210100
12,00	1,5	12,00	11,50	83	26	38	4	0644701215100
12,00	2	12,00	11,50	83	26	38	4	0644701220100
12,00	2,5	12,00	11,50	83	26	38	4	0644701225100
12,00	3	12,00	11,50	83	26	38	4	0644701230100
16,00	1	16,00	15,00	92	32	44	4	0644701610100
16,00	1,5	16,00	15,00	92	32	44	4	0644701615100
16,00	2	16,00	15,00	92	32	44	4	0644701620100
16,00	3	16,00	15,00	92	32	44	4	0644701630100
20,00	1	20,00	19,00	104	38	54	4	0644702010100
20,00	1,5	20,00	19,00	104	38	54	4	0644702015100
20,00	2	20,00	19,00	104	38	54	4	0644702020100
20,00	2,5	20,00	19,00	104	38	54	4	0644702025100
20,00	4	20,00	19,00	104	38	54	4	0644702040100
20,00	5	20,00	19,00	104	38	54	4	0644702050100

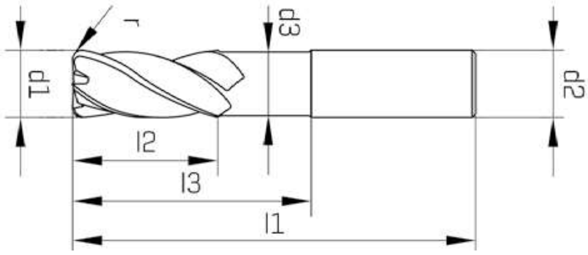
Optional ohne Aufpreis auch mit Weldon-Schaft (DIN 6535-HB) lieferbar. / Also available with Weldon-shank (DIN 6535-HB) without extra charge. / Anche disponibili con attacco Weldon (DIN 6535-HB) senza prezzo aggiuntivo.

D VHM-Schaftfräser mit Eckenradius Speedcut-Universal, extra lang XXL, frei gestellt, Vierschneider, ungleiche Drallsteigung

E Solid carbide corner radius end mill Speedcut-Universal, extra long series XXL, relieved, four flutes, different spiral angles

I Frese frontali MDI con spigolo raggiato Speedcut-Universali, serie extra lunga XXL, libero, 4 taglienti, angolo elica disuguale





DIN 6535-HA

ALUNIT-S®

d1 h10 mm	r	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 6947 Art.-Nr.
2,00	0,2	4,00	1,95	50	3	12	3	0694700202100
3,00	0,3	6,00	2,90	59	5	15	4	0694700303100
3,00	0,5	6,00	2,90	59	5	15	4	0694700305100
4,00	0,5	6,00	3,90	59	6	20	4	0694700405100
4,00	1	6,00	3,90	59	6	20	4	0694700410100
5,00	0,5	6,00	4,90	69	8	25	4	0694700505100
5,00	1	6,00	4,90	69	8	25	4	0694700510100
6,00	0,5	6,00	5,90	79	10	30	4	0694700605100
6,00	1	6,00	5,90	79	10	30	4	0694700610100
6,00	1,5	6,00	5,90	79	10	30	4	0694700615100
6,00	2	6,00	5,90	79	10	30	4	0694700620100
8,00	0,5	8,00	7,80	79	12	36	4	0694700805100
8,00	1	8,00	7,80	79	12	36	4	0694700810100
8,00	1,5	8,00	7,80	79	12	36	4	0694700815100

DIN 6535-HA

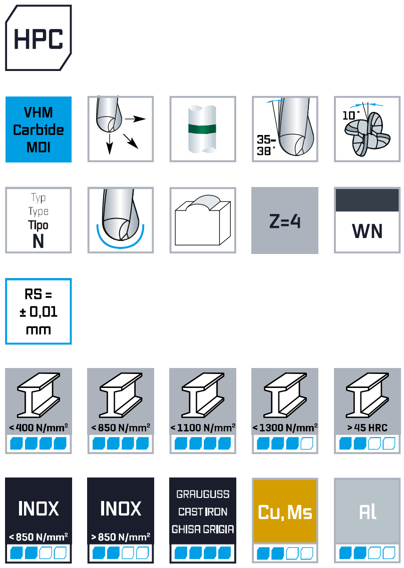
ALUNIT-S®

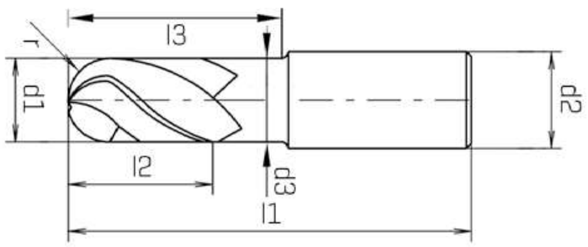
d1 h10 mm	r	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 6947 Art.-Nr.
8,00	2	8,00	7,80	79	12	36	4	0694700820100
10,00	0,5	10,00	9,80	99	15	45	4	0694701005100
10,00	1	10,00	9,80	99	15	45	4	0694701010100
10,00	1,5	10,00	9,80	99	15	45	4	0694701015100
10,00	2	10,00	9,80	99	15	45	4	0694701020100
12,00	0,5	12,00	11,80	99	18	48	4	0694701205100
12,00	1	12,00	11,80	99	18	48	4	0694701210100
12,00	1,5	12,00	11,80	99	18	48	4	0694701215100
12,00	2	12,00	11,80	99	18	48	4	0694701220100
12,00	2,5	12,00	11,80	99	18	48	4	0694701225100
12,00	3	12,00	11,80	99	18	48	4	0694701230100
16,00	1	16,00	15,80	125	24	64	4	0694701610100
16,00	2	16,00	15,80	125	24	64	4	0694701620100
16,00	3	16,00	15,80	125	24	64	4	0694701630100

D VHM-Vollradiusfräser Speedcut-Universal, lang, freigestellt, Vierschneider, ungleiche Drallsteigung

E Solid carbide ballnose end mill Speedcut-Universal, long series, neck, four flutes, different spiral angles

I Frese cilindrica raggiata in metallo duro Speed cut-Universali, serie lunga, libero, 4 taglienti, angolo dell'elica disuguale





DIN 6535-HA

ALUNIT-S®

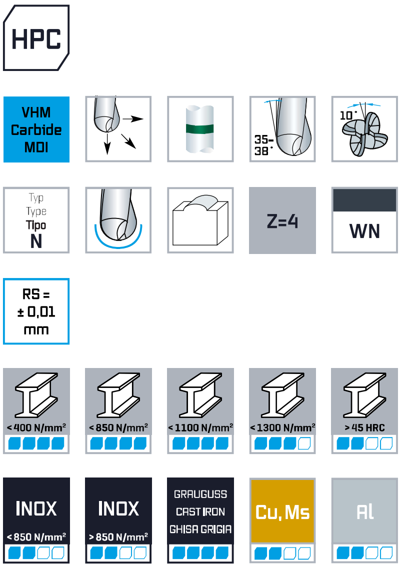
d1 f8 mm	r mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 7357 Art.-Nr.
4,00	**2**	6,00	3,80	57	6	13	4	0735700400100
5,00	**2,5**	6,00	4,70	57	8	21	4	0735700500100
6,00	**3**	6,00	5,60	57	10	21	4	0735700600100
8,00	**4**	8,00	7,50	63	12	27	4	0735700800100
10,00	**5**	10,00	9,50	72	15	32	4	0735701000100
12,00	**6**	12,00	11,50	83	18	38	4	0735701200100
16,00	**8**	16,00	15,50	92	24	44	4	0735701600100
20,00	**10**	20,00	19,50	104	30	54	4	0735702000100

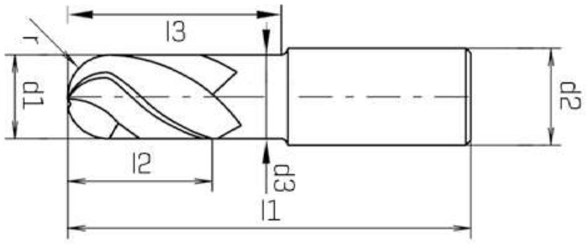
Optional ohne Aufpreis auch mit Weldon-Schaft (DIN 6535-HB) lieferbar. / Also available with Weldon-shank (DIN 6535-HB) without extra charge. / Anche disponibili con attacco Weldon (DIN 6535-HB) senza prezzo aggiuntivo.

D **VHM-Vollradiusfräser Speedcut-Universal, extra lang XXL, freigestellt, Vierschneider, ungleiche Drallsteigung**

E **Solid carbide ballnose end mill Speedcut-Universal, extra long series XXL, neck, four flutes, different spiral angles**

I **Frese cilindrica raggiata in metallo duro Speedcut-Universali, serie extra lunga XXL, libero, 4 taglienti, angolo dell'elica disuguale**





DIN 6535-HA

ALUNIT-S®

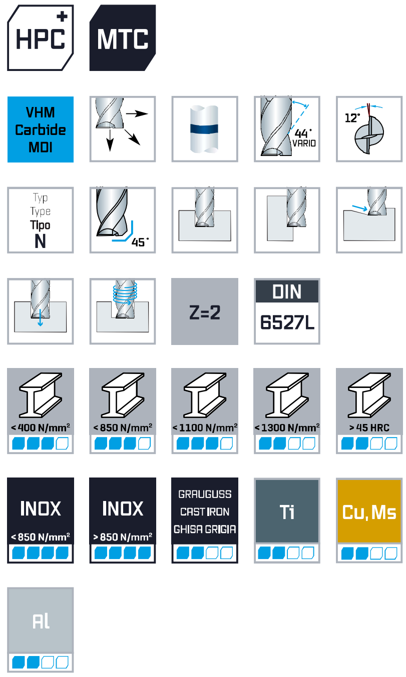
d1 f8 mm	r mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 7857 Art.-Nr.
3,00	**1,5**	6,00	2,90	59	5	15	4	0785700300100
4,00	**2**	6,00	3,90	59	6	20	4	0785700400100
5,00	**2,5**	6,00	4,90	69	8	25	4	0785700500100
6,00	**3**	6,00	5,90	79	10	30	4	0785700600100
8,00	**4**	8,00	7,90	79	12	36	4	0785700800100
10,00	**5**	10,00	9,80	99	15	45	4	0785701000100
12,00	**6**	12,00	11,80	99	18	48	4	0785701200100
16,00	**8**	16,00	15,80	125	24	64	4	0785701600100

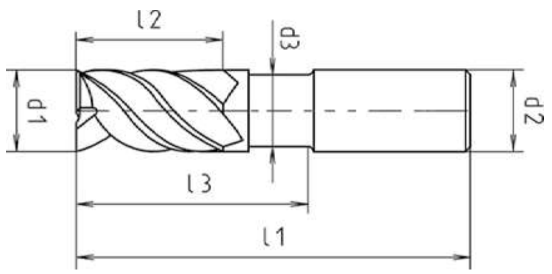
Optional ohne Aufpreis auch mit Weldon-Schaft (DIN 6535-HB) lieferbar. / Also available with Weldon-shank (DIN 6535-HB) without extra charge. / Anche disponibili con attacco Weldon (DIN 6535-HB) senza prezzo aggiuntivo.

D **HPC-Schaftfräser Speedcut 4.0-Inox lang, freigestellt, Zweischneider, ungleiche Drallsteigung**

E **HPC end mill Speedcut 4.0-Inox, long series, neck, two flutes, different spiral angles**

I **Frese frontali HPC Speed cut 4.0-Inox, serie lunga, libero, 2 taglienti, angolo elica disuguale**





DIN 6535-HA

ULTRADUR

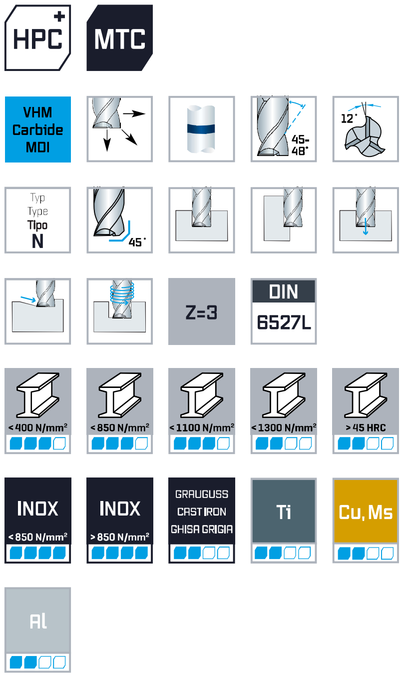
d1 e8 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 8167 Art.-Nr.
1,00	6,00	0,95	57	3	13	0,05	2	0816700100100
2,00	6,00	1,80	57	5	15	0,05	2	0816700200100
3,00	6,00	2,80	57	8	15	0,05	2	0816700300100
4,00	6,00	3,80	57	11	15	0,06	2	0816700400100
5,00	6,00	4,80	57	13	21	0,06	2	0816700500100
6,00	6,00	5,80	57	13	21	0,08	2	0816700600100
8,00	8,00	7,80	63	19	27	0,10	2	0816700800100
10,00	10,00	9,80	72	22	32	0,10	2	0816701000100
12,00	12,00	11,80	83	26	38	0,10	2	0816701200100
16,00	16,00	15,70	92	32	44	0,20	2	0816701600100
20,00	20,00	19,70	104	38	54	0,25	2	0816702000100

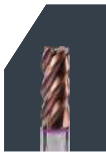
Optional ohne Aufpreis auch mit Weldon-Schaft (DIN 6535-HB) lieferbar. / Also available with Weldon-shank (DIN 6535-HB) without extra charge. / Anche disponibili con attacco Weldon (DIN 6535-HB) senza prezzo aggiuntivo.

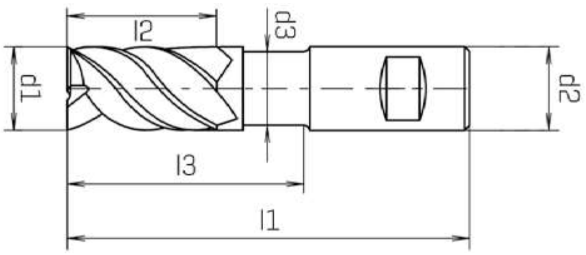
D **HPC-Schaftfräser Speedcut 4.0-Inox, lang, freigestellt, Dreischneider, ungleiche Drallsteigung**

E **HPC end mill Speedcut 4.0-Inox, long series, neck, three flutes, different spiral angles**

I **Frese frontali HPC Speed cut 4.0-Inox, serie lunga, libero, 3 taglienti, angolo elica disuguale**







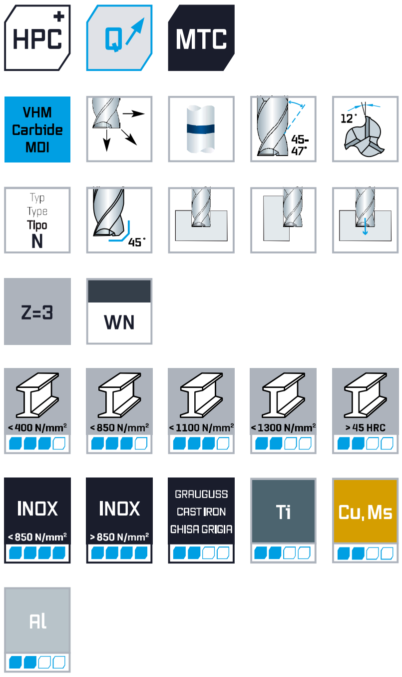
ULTRADUR

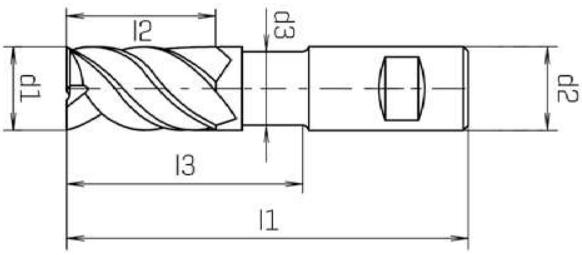
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 8107 Art.-Nr.
1,00	6,00	0,90	57	2,5	5	0,05	3	0810700100100
1,50	6,00	1,40	57	4	7,5	0,05	3	0810700150100
2,00	6,00	1,90	57	5	10	0,05	3	0810700200100
2,50	6,00	2,40	57	6	12,5	0,05	3	0810700250100
3,00	6,00	2,90	57	8	15	0,05	3	0810700300100
3,50	6,00	3,40	57	11	16	0,05	3	0810700350100
4,00	6,00	3,90	57	11	16	0,10	3	0810700400100
4,50	6,00	4,40	57	13	19	0,10	3	0810700450100
5,00	6,00	4,90	57	13	19	0,10	3	0810700500100
5,50	6,00	5,40	57	13	19	0,10	3	0810700550100
6,00	6,00	5,90	57	13	19	0,10	3	0810700600100
7,00	8,00	6,80	63	19	25	0,10	3	0810700700100
7,50	8,00	7,30	63	19	25	0,10	3	0810700750100
8,00	8,00	7,80	63	19	25	0,10	3	0810700800100
9,00	8,00	8,70	72	22	30	0,10	3	0810700900100
10,00	10,00	9,70	72	22	30	0,10	3	0810701000100
12,00	12,00	11,70	83	26	36	0,10	3	0810701200100
14,00	14,00	13,70	83	26	36	0,15	3	0810701400100
16,00	16,00	15,50	92	32	42	0,20	3	0810701600100
20,00	20,00	19,50	104	38	52	0,20	3	0810702000100

D **HPC-Schaftfräser Speedcut 4.0-Inox, extra lang XL, freigestellt, Dreischneider, ungleiche Drallsteigung**

E **HPC end mill Speedcut 4.0-Inox, extra long series XL, neck, three flutes, different spiral angles**

I **Frese frontali HPC Speed cut 4.0-Inox, extra serie lunga XL, libero, 3 taglienti, angolo elica disuguale**





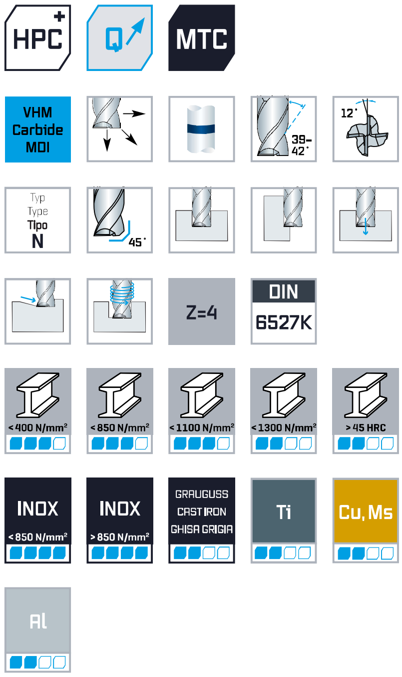
ULTRADUR

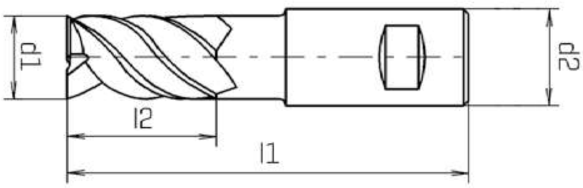
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 8117 Art.-Nr.
1,00	6,00	0,90	57	3	13	0,05	3	0811700100100
2,00	6,00	1,90	57	5	15	0,05	3	0811700200100
3,00	6,00	2,90	59	8	20	0,05	3	0811700300100
4,00	6,00	3,90	62	16	24	0,10	3	0811700400100
5,00	6,00	4,90	62	17	24	0,10	3	0811700500100
6,00	6,00	5,90	62	18	24	0,10	3	0811700600100
8,00	8,00	7,80	70	24	30	0,10	3	0811700800100
10,00	10,00	9,70	80	30	38	0,10	3	0811701000100
12,00	12,00	11,70	93	36	46	0,10	3	0811701200100
16,00	16,00	15,50	108	48	58	0,20	3	0811701600100
20,00	20,00	19,50	124	60	74	0,20	3	0811702000100

D **HPC-Schaftfräser Speedcut 4.0-Inox, kurz, Vierschneider, ungleiche Drallsteigung**

E **HPC end mill Speedcut 4.0-Inox, short series, four flutes, different spiral angles**

I **Frese frontali HPC Speed cut 4.0-Inox, serie corta, 4 taglienti, angolo elica disuguale**





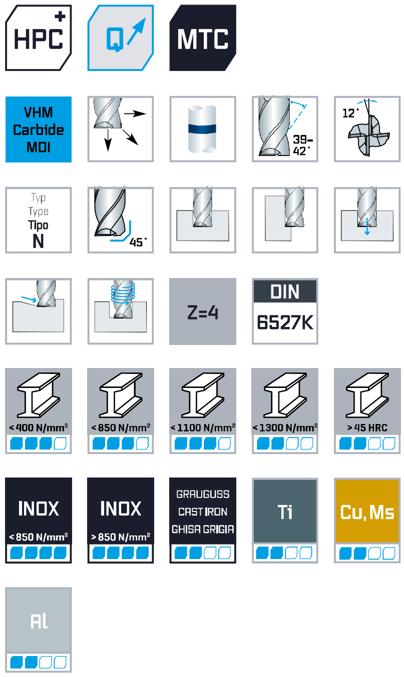
DIN 6535-HB
ULTRADUR

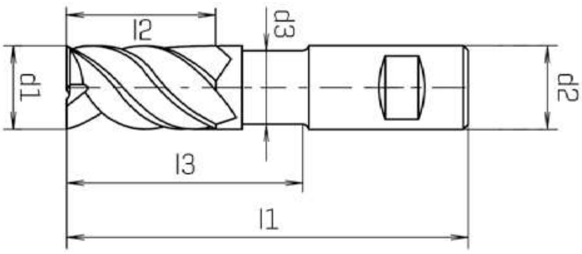
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 8697 Art.-Nr.
3,00	6,00	50	5	0,15	4	0869700300100
4,00	6,00	54	8	0,15	4	0869700400100
5,00	6,00	54	9	0,25	4	0869700500100
6,00	6,00	54	10	0,25	4	0869700600100
8,00	8,00	58	12	0,25	4	0869700800100
10,00	10,00	66	14	0,35	4	0869701000100
12,00	12,00	73	16	0,35	4	0869701200100
16,00	16,00	82	22	0,35	4	0869701600100
20,00	20,00	92	26	0,35	4	0869702000100

D **HPC-Schaftfräser Speedcut 4.0-Inox, kurz, freigestellt, Vierschneider, ungleiche Drallsteigung**

E **HPC end mill Speedcut 4.0-Inox, short series, neck, four flutes, different spiral angles**

I **Frese frontali HPC Speedcut 4.0-Inox, serie corta, libero, 4 taglienti, angolo elica disuguale**



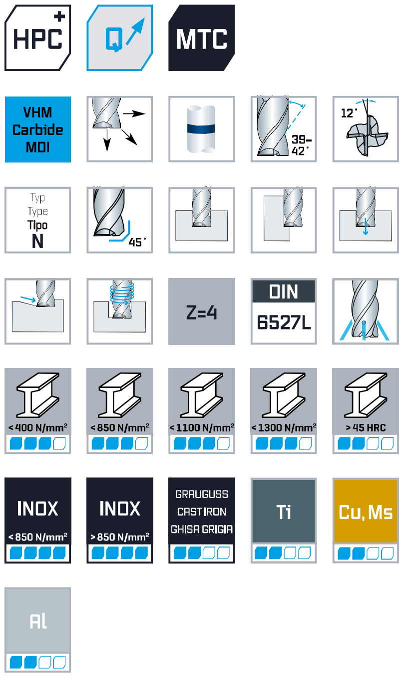


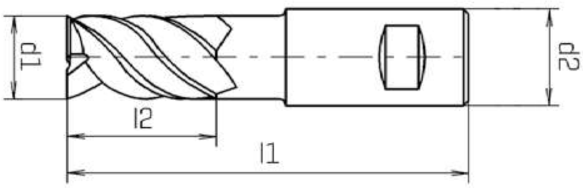
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	DIN 6535-HA ULTRADUR Code 8397 Art.-Nr.	DIN 6535-HB ULTRADUR Code 8497 Art.-Nr.
3,00	6,00	2,90	50	5	8	0,15	4	0839700300100	0849700300100
4,00	6,00	3,80	54	8	11	0,15	4	0839700400100	0849700400100
5,00	6,00	4,70	54	9	13	0,25	4	0839700500100	0849700500100
6,00	6,00	5,60	54	10	13	0,25	4	0839700600100	0849700600100
8,00	8,00	7,50	57	12	19	0,25	4	0839700800100	0849700800100
10,00	10,00	9,50	66	14	22	0,25	4	0839701000100	0849701000100
12,00	12,00	11,50	73	16	26	0,25	4	0839701200100	0849701200100
16,00	16,00	15,50	82	22	32	0,35	4	0839701600100	0849701600100

D **HPC-Schaftfräser Speedcut 4.0-Inox, lang, Vierschneider, ungleiche Drallsteigung, mit Innenkühlung**

E **HPC end mill Speedcut 4.0-Inox, long series, four flutes, different spiral angles, with internal coolant supply**

I **Frese frontali HPC Speed cut 4.0-Inox, serie lunga, 4 taglienti, angolo elica disuguale, con fori lubrificazione**





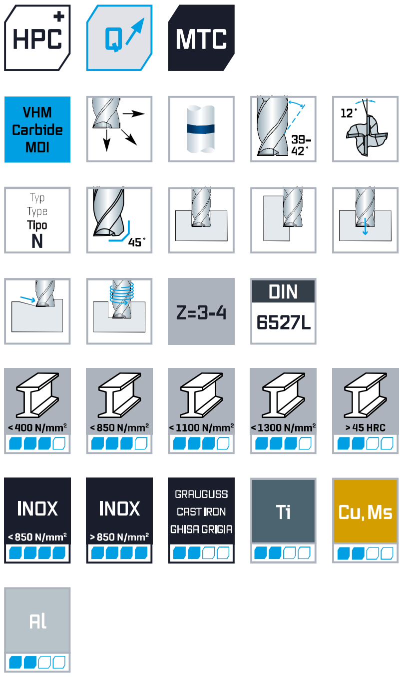
DIN 6535-HA ULTRADUR | DIN 6535-HB ULTRADUR

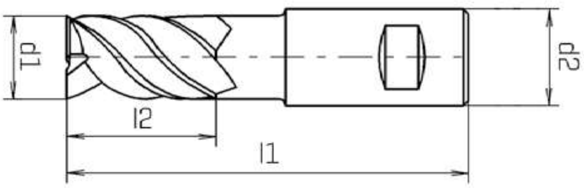
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 8557 Art.-Nr.	Code 8567 Art.-Nr.
6,00	6,00	57	13	0,25	4	0855700600100	0856700600100
8,00	8,00	63	19	0,25	4	0855700800100	0856700800100
10,00	10,00	72	22	0,25	4	0855701000100	0856701000100
12,00	12,00	83	26	0,25	4	0855701200100	0856701200100
14,00	14,00	83	26	0,35	4	0855701400100	0856701400100
16,00	16,00	92	32	0,35	4	0855701600100	0856701600100
20,00	20,00	104	38	0,35	4	0855702000100	0856702000100

D HPC-Schaftfräser Speedcut 4.0-Inox, lang, Vierschneider, ungleiche Drallsteigung

E HPC end mill Speedcut 4.0-Inox, long series, four flutes, different spiral angles

I Frese frontali HPC Speedcut 4.0-Inox, serie lunga, 4 taglienti, angolo elica disuguale





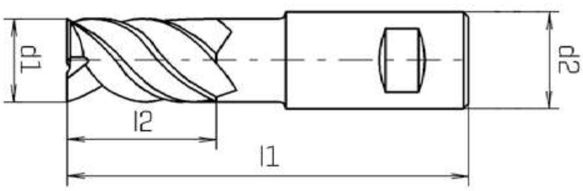
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 8247 Art.-Nr.	Code 8747 Art.-Nr.
2,00	4,00	40	5	0,06	3	0824700200100	
3,00	6,00	57	8	0,15	4	0824700300100	0874700300100
4,00	6,00	57	11	0,15	4	0824700400100	0874700400100
5,00	6,00	57	13	0,25	4	0824700500100	0874700500100
6,00	6,00	57	13	0,25	4	0824700600100	0874700600100
7,00	8,00	63	16	0,25	4	0824700700100	0874700700100
8,00	8,00	63	19	0,25	4	0824700800100	0874700800100
9,00	10,00	72	19	0,25	4	0824700900100	0874700900100
10,00	10,00	72	22	0,25	4	0824701000100	0874701000100
11,00	12,00	83	26	0,25	4	0824701100100	0874701100100
12,00	12,00	83	26	0,25	4	0824701200100	0874701200100
16,00	16,00	92	32	0,35	4	0824701600100	0874701600100
20,00	20,00	104	38	0,35	4	0824702000100	0874702000100

D VHM-Schaftfräser Speedcut-Inox, lang, Vierschneider, ungleiche Drallsteigung

E Solid carbide end mill Speedcut-Inox, long series, four flutes, different spiral angles

I Frese frontali MDI Speed cut–Inox, serie lunga, 4 taglienti, angolo elica disuguale

HPC MTC
VHM Carbide MDI
39–42°
12°
Typ Type Tipo N
45°
Z=3-4
DIN 6527L
< 400 N/mm² | < 850 N/mm² | < 1100 N/mm² | < 1300 N/mm² | > 45 HRC
INOX < 850 N/mm² | INOX > 850 N/mm² | GRAUGUSS CAST IRON GHISA GRIGIA | Ti | Cu, Ms
Al



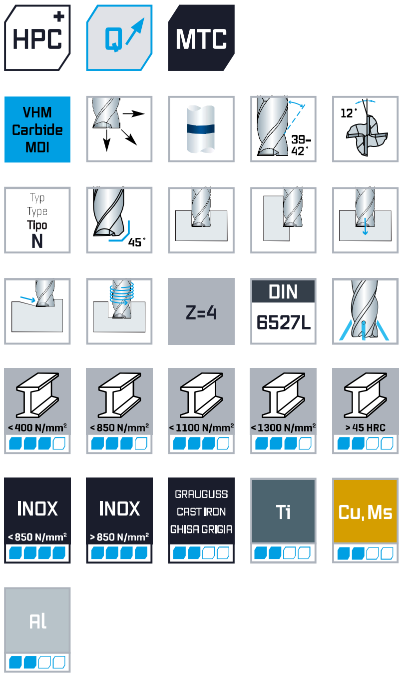
DIN 6535-HA ALUNIT-S® | DIN 6535-HB ALUNIT-S®

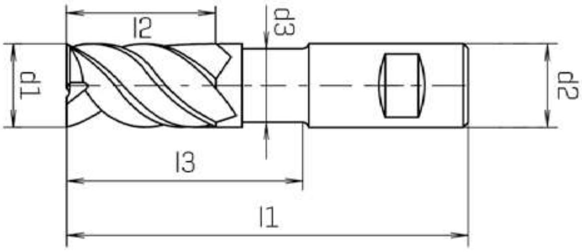
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 7247 Art.-Nr.	Code 7747 Art.-Nr.
2,00	4,00	40	5	0,06	3	0724700200100	
3,00	6,00	57	8	0,15	4	0724700300100	0774700300100
4,00	6,00	57	11	0,15	4	0724700400100	0774700400100
5,00	6,00	57	13	0,25	4	0724700500100	0774700500100
6,00	6,00	57	13	0,25	4	0724700600100	0774700600100
8,00	8,00	63	19	0,25	4	0724700800100	0774700800100
10,00	10,00	72	22	0,25	4	0724701000100	0774701000100
12,00	12,00	83	26	0,25	4	0724701200100	0774701200100
16,00	16,00	92	32	0,35	4	0724701600100	0774701600100
20,00	20,00	104	38	0,35	4	0724702000100	0774702000100

D **HPC-Schaftfräser Speedcut 4.0-Inox, lang, freigestellt, Vierschneider, ungleiche Drallsteigung, mit Innenkühlung**

E HPC end mill Speedcut 4.0-Inox, long series, neck, four flutes, different spiral angles, with internal coolant supply

I Frese frontali HPC Speedcut 4.0-Inox, serie lunga, libero, 4 taglienti, angolo elica disuguale, con fori lubrificazione





								ULTRADUR	ULTRADUR
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 8587 Art.-Nr.	Code 8597 Art.-Nr.
6,00	6,00	5,50	57	13	21	0,25	4	0858700600100	0859700600100
8,00	8,00	7,50	63	19	27	0,25	4	0858700800100	0859700800100
10,00	10,00	9,50	72	22	32	0,25	4	0858701000100	0859701000100
12,00	12,00	11,50	83	26	38	0,25	4	0858701200100	0859701200100
14,00	14,00	13,50	83	26	38	0,35	4	0858701400100	0859701400100
16,00	16,00	15,00	92	32	44	0,35	4	0858701600100	0859701600100
20,00	20,00	19,00	104	38	54	0,35	4	0858702000100	0859702000100

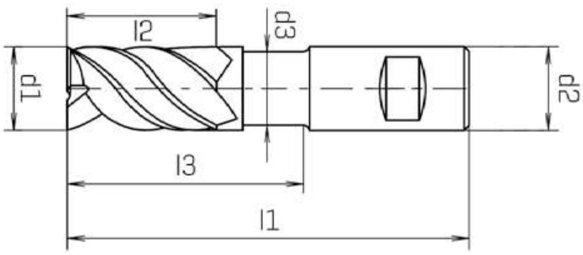
D **HPC-Schaftfräser Speedcut 4.0-Inox, lang, freigestellt, Vierschneider, ungleiche Drallsteigung**

E **HPC end mill Speedcut 4.0-Inox, long series, neck, four flutes, different spiral angles**

I **Frese frontali HPC Speedcut 4.0-Inox, serie lunga, libero, 4 taglienti, angolo elica disuguale**

HPC | Q | MTC
VHM Carbide MDI
Typ Type Tipo N
45°
12°
39-42°
Z=3-4
DIN 6527L
<400 N/mm² | <850 N/mm² | <1100 N/mm² | <1300 N/mm² | >45 HRC
INOX <850 N/mm² | INOX >850 N/mm² | GRAUGUSS CAST IRON GHISA GRIGIA | Ti | Cu, Ms | Al

VHM-Fräser
Solid carbide milling cutters
Frese in metallo duro integrale

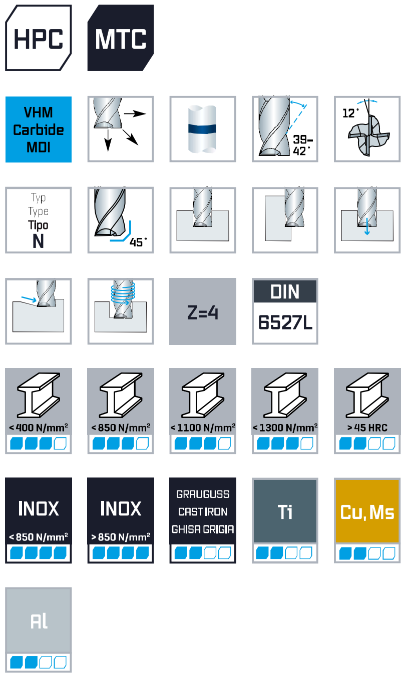


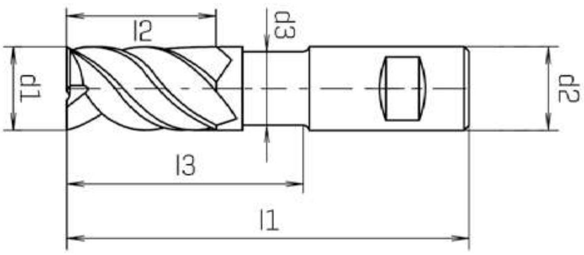
	d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	DIN 6535-HA ULTRADUR Code 8347 Art.-Nr.	DIN 6535-HB ULTRADUR Code 8447 Art.-Nr.
NEW	**2,00**	4,00	1,80	40	5	13	0,15	3	0834700200100	
	3,00	6,00	2,80	57	8	20	0,15	4	0834700300100	0844700300100
	4,00	6,00	3,80	57	11	21	0,15	4	0834700400100	0844700400100
	5,00	6,00	4,70	57	13	22	0,25	4	0834700500100	0844700500100
	6,00	6,00	5,60	57	13	23	0,25	4	0834700600100	0844700600100
	8,00	8,00	7,50	63	19	29	0,25	4	0834700800100	0844700800100
	10,00	10,00	9,50	72	22	34	0,25	4	0834701000100	0844701000100
	12,00	12,00	11,50	83	26	40	0,25	4	0834701200100	0844701200100
	16,00	16,00	15,50	92	32	46	0,35	4	0834701600100	0844701600100
	20,00	20,00	19,50	104	38	56	0,35	4	0834702000100	0844702000100
	25,00	25,00	24,50	120	45	66	0,35	4		0844702500100

D VHM-Schaftfräser Speedcut-Inox, lang, freigestellt, Vierschneider, ungleiche Drallsteigung

E Solid carbide end mill Speedcut-Inox, long series, neck, four flutes, different spiral angles

I Frese frontali MDI Speedcut–Inox, serie lunga, libero, 4 taglienti, angolo elica disuguale





DIN 6535-HA — ALUNIT-S®

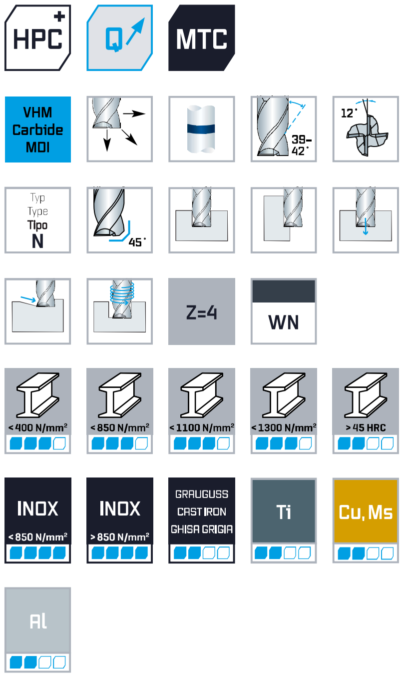
DIN 6535-HB — ALUNIT-S®

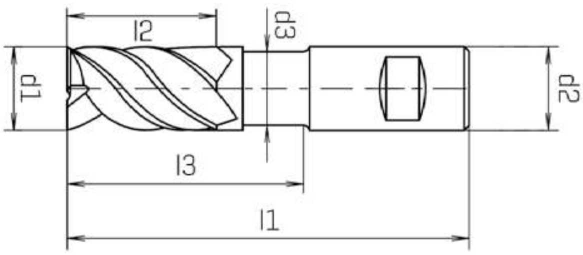
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 7347 Art.-Nr.	Code 7447 Art.-Nr.
3,00	6,00	2,90	57	8	14	0,15	4	0734700300100	0744700300100
4,00	6,00	3,60	57	11	16	0,15	4	0734700400100	0744700400100
5,00	6,00	4,60	57	13	18	0,25	4	0734700500100	0744700500100
6,00	6,00	5,50	57	13	21	0,25	4	0734700600100	0744700600100
8,00	8,00	7,50	63	19	27	0,25	4	0734700800100	0744700800100
10,00	10,00	9,50	72	22	32	0,25	4	0734701000100	0744701000100
12,00	12,00	11,50	83	26	38	0,25	4	0734701200100	0744701200100
16,00	16,00	15,00	92	32	44	0,35	4	0734701600100	0744701600100
20,00	20,00	19,00	104	38	54	0,35	4	0734702000100	0744702000100

D HPC-Schaftfräser Speedcut 4.0-Inox, extra lang XL, freigestellt, Vierschneider, ungleiche Drallsteigung

E HPC end mill Speedcut 4.0-Inox, extra long series XL, neck, four flutes, different spiral angles

I Frese frontali HPC Speed cut 4.0-Inox, serie extra lunga XL, libero, 4 taglienti, angolo elica disuguale





DIN 6535-HA ULTRADUR | DIN 6535-HB ULTRADUR

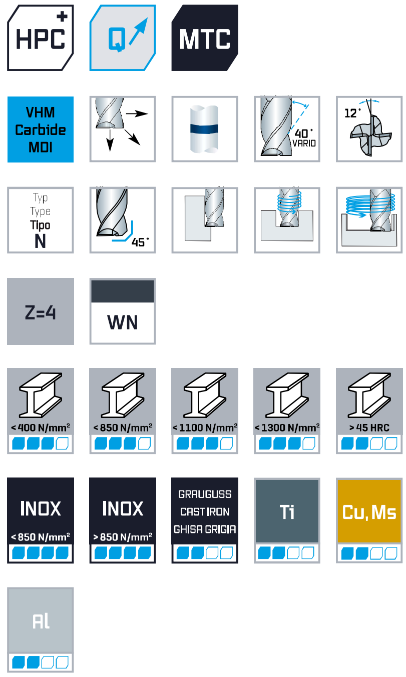
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 8267 Art.-Nr.	Code 8767 Art.-Nr.
5,00	6,00	4,70	62	13	26	0,25	4	0826700500100	0876700500100
6,00	6,00	5,60	62	13	26	0,25	4	0826700600100	0876700600100
8,00	8,00	7,50	70	19	34	0,25	4	0826700800100	0876700800100
10,00	10,00	9,50	80	22	40	0,25	4	0826701000100	0876701000100
12,00	12,00	11,50	95	26	50	0,25	4	0826701200100	0876701200100
16,00	16,00	15,50	105	32	57	0,35	4	0826701600100	0876701600100
20,00	20,00	19,50	124	38	71	0,35	4	0826702000100	0876702000100

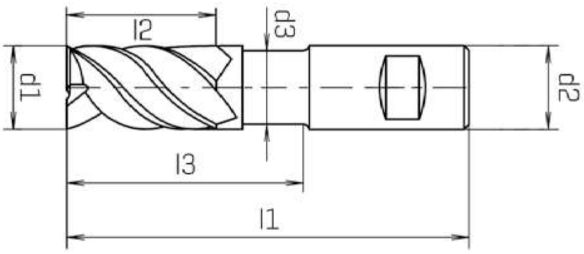
VHM-Fräser
Solid carbide milling cutters
Frese in metallo duro integrale

D **HPC-Schaftfräser Speedcut 4.0-Inox, extra lang XL, freigestellt, Vierschneider, ungleiche Drallsteigung**

E **HPC end mill Speedcut 4.0-Inox, extra long series XL, neck, four flutes, different spiral angles**

I **Frese frontali HPC Speedcut 4.0-Inox, extra serie lunga XL, libero, 4 taglienti, angolo elica disuguale**





DIN 6535-HB

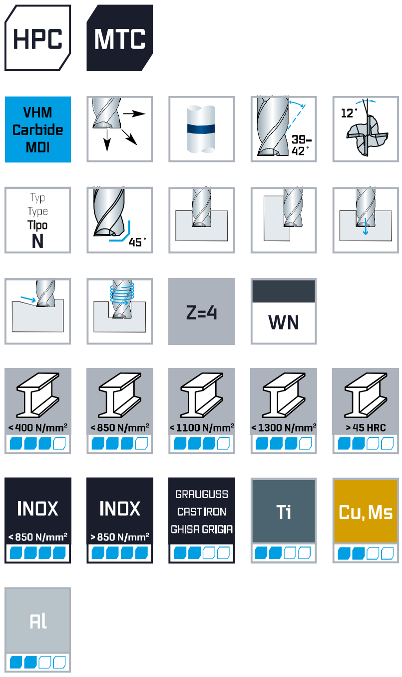
ULTRADUR

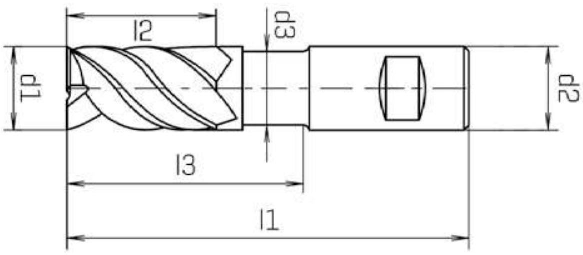
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 8777 Art.-Nr.
5,00	6,00	4,80	62	18	25	0,25	4	0877700500100
6,00	6,00	5,50	62	18	25	0,25	4	0877700600100
8,00	8,00	7,50	68	24	32	0,25	4	0877700800100
10,00	10,00	9,50	80	30	40	0,25	4	0877701000100
12,00	12,00	11,50	93	36	48	0,25	4	0877701200100
16,00	16,00	15,50	108	48	56	0,35	4	0877701600100
20,00	20,00	19,50	126	60	70	0,35	4	0877702000100

VHM-Schaftfräser Speedcut-Inox, extra lang XL, freigestellt, Vierschneider, ungleiche Drallsteigung

Solid carbide end mill Speedcut-Inox, extra long series XL, neck, four flutes, different spiral angles

Frese frontali MDI Speed cut–Inox, serie extra lunga XL, libero, 4 taglienti, angolo elica disuguale





DIN 6535-HA ALUNIT-S®

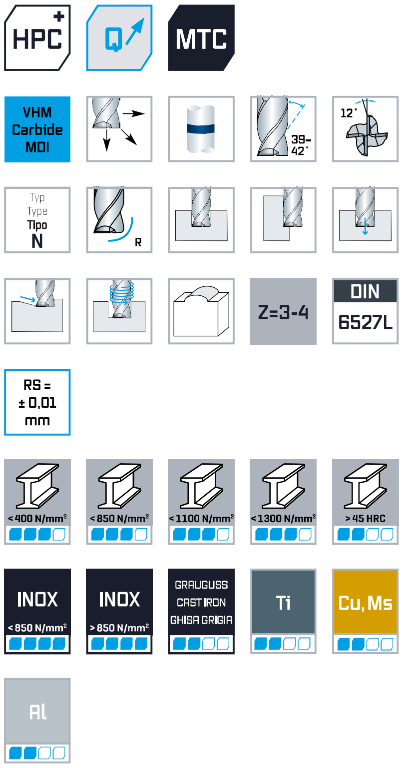
DIN 6535-HB ALUNIT-S®

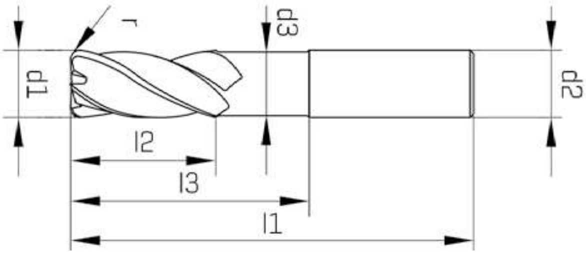
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 7267 Art.-Nr.	Code 7767 Art.-Nr.
5,00	6,00	4,70	62	13	26	0,25	4	0726700500100	0776700500100
6,00	6,00	5,60	62	13	26	0,25	4	0726700600100	0776700600100
8,00	8,00	7,50	70	19	34	0,25	4	0726700800100	0776700800100
10,00	10,00	9,50	80	22	40	0,25	4	0726701000100	0776701000100
12,00	12,00	11,50	95	26	50	0,25	4	0726701200100	0776701200100
16,00	16,00	15,50	105	32	57	0,35	4	0726701600100	0776701600100
20,00	20,00	19,50	124	38	71	0,35	4	0726702000100	0776702000100

D HPC-Schaftfräser mit Eckenradius, Speedcut 4.0-Inox, lang, freigestellt, Vierschneider, ungleiche Drallsteigung

E HPC corner radius end mill Speedcut 4.0-Inox, long series, neck, four flutes, different spiral angles

I Frese frontali HPC con spigolo raggiato Speedcut 4.0–Inox, serie lunga, libero, 4 taglienti, angolo elica disuguale





DIN 6535-HA ULTRADUR

d1 h10 mm	r	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 8647 Art.-Nr.
2,00	**0,2**	4,00	1,95	40	5	10	3	0864700202100
3,00	**0,3**	6,00	2,90	57	8	14	4	0864700303100
3,00	**0,5**	6,00	2,90	57	8	14	4	0864700305100
4,00	**0,5**	6,00	3,60	57	11	16	4	0864700405100
4,00	**1**	6,00	3,60	57	11	16	4	0864700410100
5,00	**0,5**	6,00	4,60	57	13	18	4	0864700505100
5,00	**1**	6,00	4,60	57	13	18	4	0864700510100
6,00	**0,5**	6,00	5,50	57	13	21	4	0864700605100
6,00	**1**	6,00	5,50	57	13	21	4	0864700610100
6,00	**1,5**	6,00	5,50	57	13	21	4	0864700615100
6,00	**2**	6,00	5,50	57	13	21	4	0864700620100
8,00	**0,5**	8,00	7,50	63	19	27	4	0864700805100
8,00	**1**	8,00	7,50	63	19	27	4	0864700810100
8,00	**1,5**	8,00	7,50	63	19	27	4	0864700815100
8,00	**2**	8,00	7,50	63	19	27	4	0864700820100

DIN 6535-HA ULTRADUR

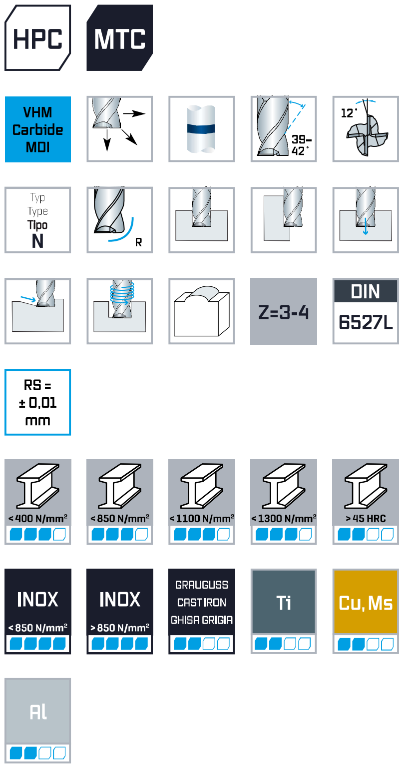
d1 h10 mm	r	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 8647 Art.-Nr.
10,00	**0,5**	10,00	9,50	72	22	32	4	0864701005100
10,00	**1**	10,00	9,50	72	22	32	4	0864701010100
10,00	**1,5**	10,00	9,50	72	22	32	4	0864701015100
10,00	**2**	10,00	9,50	72	22	32	4	0864701020100
12,00	**0,5**	12,00	11,50	83	26	38	4	0864701205100
12,00	**1**	12,00	11,50	83	26	38	4	0864701210100
12,00	**1,5**	12,00	11,50	83	26	38	4	0864701215100
12,00	**2**	12,00	11,50	83	26	38	4	0864701220100
16,00	**1**	16,00	15,00	92	32	44	4	0864701610100
16,00	**2**	16,00	15,00	92	32	44	4	0864701620100
16,00	**3**	16,00	15,00	92	32	44	4	0864701630100
20,00	**1**	20,00	19,00	104	38	54	4	0864702010100
20,00	**2**	20,00	19,00	104	38	54	4	0864702020100
20,00	**3**	20,00	19,00	104	38	54	4	0864702030100

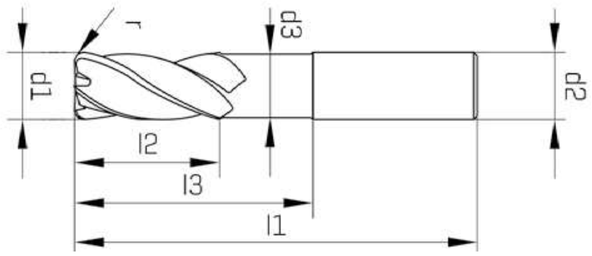
Optional ohne Aufpreis auch mit Weldon-Schaft (DIN 6535-HB) lieferbar / Also available with Weldon-shank (DIN 6535-HB) without extra charge. / Anche disponibili con attacco Weldon (DIN 6535-HB) senza prezzo aggiuntivo.

D VHM-Schaftfräser mit Eckenradius Speedcut-Inox, lang, freigestellt, Vierschneider, ungleiche Drallsteigung

E Solid carbide corner radius end mill Speedcut-Inox, long series, neck, four flutes, different spiral angles

I Frese frontali MDI con spigolo raggiato Speedcut-Inox, serie lunga, libero, 4 taglienti, angolo elica disuguale





DIN 6535-HA
ALUNIT-S®

d1 h10 mm	r	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 6547 Art.-Nr.
2,00	**0,2**	4,00	1,95	40	5	10	3	0654700202100
3,00	**0,3**	6,00	2,90	57	8	14	4	0654700303100
3,00	**0,5**	6,00	2,90	57	8	14	4	0654700305100
4,00	**0,5**	6,00	3,60	57	11	16	4	0654700405100
4,00	**1**	6,00	3,60	57	11	16	4	0654700410100
5,00	**0,5**	6,00	4,60	57	13	18	4	0654700505100
5,00	**1**	6,00	4,60	57	13	18	4	0654700510100
6,00	**0,5**	6,00	5,50	57	13	21	4	0654700605100
6,00	**1**	6,00	5,50	57	13	21	4	0654700610100
6,00	**1,5**	6,00	5,50	57	13	21	4	0654700615100
6,00	**2**	6,00	5,50	57	13	21	4	0654700620100
8,00	**0,5**	8,00	7,50	63	19	27	4	0654700805100
8,00	**1**	8,00	7,50	63	19	27	4	0654700810100
8,00	**1,5**	8,00	7,50	63	19	27	4	0654700815100
8,00	**2**	8,00	7,50	63	19	27	4	0654700820100

DIN 6535-HA
ALUNIT-S®

d1 h10 mm	r	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 6547 Art.-Nr.
10,00	**0,5**	10,00	9,50	72	22	32	4	0654701005100
10,00	**1**	10,00	9,50	72	22	32	4	0654701010100
10,00	**1,5**	10,00	9,50	72	22	32	4	0654701015100
10,00	**2**	10,00	9,50	72	22	32	4	0654701020100
12,00	**0,5**	12,00	11,50	83	26	38	4	0654701205100
12,00	**1**	12,00	11,50	83	26	38	4	0654701210100
12,00	**1,5**	12,00	11,50	83	26	38	4	0654701215100
12,00	**2**	12,00	11,50	83	26	38	4	0654701220100
16,00	**1**	16,00	15,00	92	32	44	4	0654701610100
16,00	**2**	16,00	15,00	92	32	44	4	0654701620100
16,00	**3**	16,00	15,00	92	32	44	4	0654701630100
20,00	**1**	20,00	19,00	104	38	54	4	0654702010100
20,00	**2**	20,00	19,00	104	38	54	4	0654702020100
20,00	**3**	20,00	19,00	104	38	54	4	0654702030100

Optional ohne Aufpreis auch mit Weldon-Schaft (DIN 6535-HB) lieferbar / Also available with Weldon-shank (DIN 6535-HB) without extra charge. / Anche disponibili con attacco Weldon (DIN 6535-HB) senza prezzo aggiuntivo.

D HPC-Vollradiusfräser Speedcut 4.0-Inox, kurz, Vierschneider, ungleiche Drallsteigung

E HPC ballnose end mill Speedcut 4.0-Inox, short series, four flutes, different spiral angles

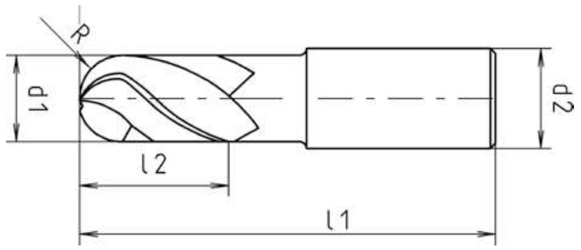
I Frese cilindrica raggiata HPC Speedcut 4.0-Inox, serie corta, 4 taglienti, angolo elica disuguale

HPC

VHM Carbide MDI | 39-42° | 12° | Typ Type Tipo N | Z=4 | DIN 6527K | RS = ± 0,005 mm

< 400 N/mm² | < 850 N/mm² | < 1100 N/mm² | < 1300 N/mm² | > 45 HRC

INOX < 850 N/mm² | INOX > 850 N/mm² | GRAUGUSS CAST IRON GHISA GRIGIA | Ti | Cu, Ms | Al



DIN 6535-HB

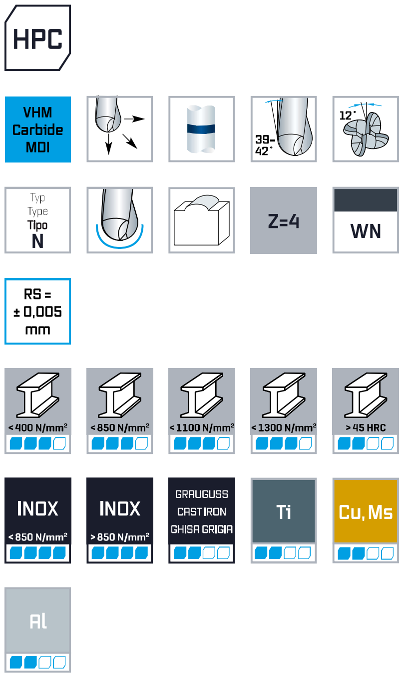
ULTRADUR

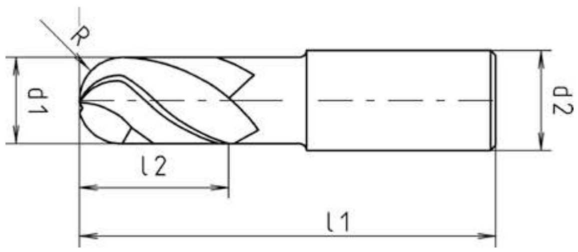
d1 f8 mm	r mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 8177 Art.-Nr.
2,00	**1**	3,00	50	4	4	0817700200100
2,00	**1**	6,00	54	4	4	0817700201100
3,00	**1,5**	3,00	50	5	4	0817700300100
3,00	**1,5**	6,00	54	5	4	0817700301100
4,00	**2**	4,00	54	8	4	0817700400100
4,00	**2**	6,00	54	8	4	0817700401100
5,00	**2,5**	5,00	54	9	4	0817700500100
5,00	**2,5**	6,00	54	9	4	0817700501100
6,00	**3**	6,00	54	10	4	0817700600100
8,00	**4**	8,00	58	12	4	0817700800100
10,00	**5**	10,00	66	14	4	0817701000100
12,00	**6**	12,00	73	16	4	0817701200100
16,00	**8**	16,00	82	20	4	0817701600100
20,00	**10**	20,00	92	26	4	0817702000100

D **HPC-Vollradiusfräser Speedcut 4.0-Inox, extra lang XXL, Vierschneider, ungleiche Drallsteigung**

E **HPC ballnose end mil Speedcut 4.0-Inox, extra long series XXL, four flutes, different spiral angles**

I **Frese cilindrica raggiata HPC Speedcut 4.0-Inox, extra serie lunga XXL, 4 taglienti, angolo elica disuguale**





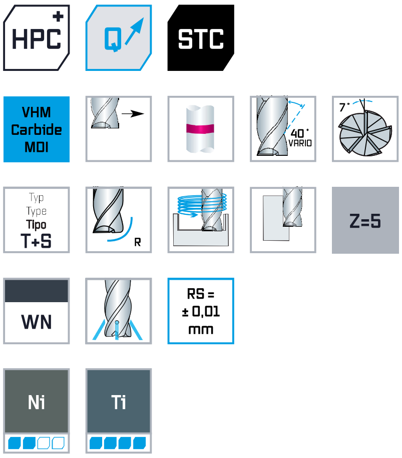
DIN 6535-HA
ULTRADUR

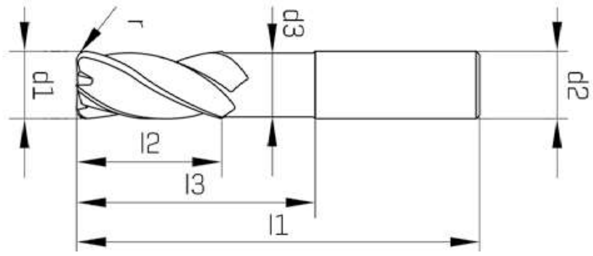
d1 f8 mm	r mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 8187 Art.-Nr.
2,00	**1**	3,00	60	4	4	0818700200100
2,00	**1**	6,00	80	4	4	0818700201100
3,00	**1,5**	3,00	60	5	4	0818700300100
3,00	**1,5**	6,00	80	5	4	0818700301100
4,00	**2**	4,00	80	8	4	0818700400100
4,00	**2**	6,00	80	8	4	0818700401100
5,00	**2,5**	5,00	80	9	4	0818700500100
5,00	**2,5**	6,00	80	9	4	0818700501100
6,00	**3**	6,00	100	10	4	0818700600100
8,00	**4**	8,00	100	12	4	0818700800100
10,00	**5**	10,00	100	14	4	0818701000100
12,00	**6**	12,00	100	16	4	0818701200100
16,00	**8**	16,00	120	20	4	0818701600100
20,00	**10**	20,00	120	26	4	0818702000100

D HPC-Schaftfräser mit Eckenradius, Speedcut 4.0-Titanium, lang, freigestellt, Fünfschneider, ungleiche Drallsteigung, mit Innenkühlung

E HPC corner radius end mill Speedcut 4.0-Titanium, long series, neck, five flutes, different spiral angles, with internal coolant supply

I Frese frontali HPC con spigolo raggiato Speedcut 4.0-Titanium, serie lunga, libero, 5 taglienti, angolo elica disuguale, con fori lubrificazione

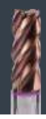




d1 h10 mm	r	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	DIN 6535-HA AERODUR Code 8127 Art.-Nr.	DIN 6535-HB AERODUR Code 8137 Art.-Nr.
3,00	**0,25**	6,00	2,90	57	8	10	5	0812700302100	0813700302100
3,00	**0,5**	6,00	2,90	57	8	10	5	0812700305100	0813700305100
4,00	**0,25**	6,00	3,90	57	11	13	5	0812700402100	0813700402100
4,00	**0,5**	6,00	3,90	57	11	13	5	0812700405100	0813700405100
5,00	**0,25**	6,00	4,90	57	13	16	5	0812700502100	0813700502100
5,00	**0,5**	6,00	4,90	57	13	16	5	0812700505100	0813700505100
6,00	**0,25**	6,00	5,90	57	13	19	5	0812700602100	0813700602100
6,00	**0,5**	6,00	5,90	57	13	19	5	0812700605100	0813700605100
6,00	**1**	6,00	5,90	57	13	19	5	0812700610100	0813700610100
8,00	**0,25**	8,00	7,80	63	19	25	5	0812700802100	0813700802100
8,00	**0,5**	8,00	7,80	63	19	25	5	0812700805100	0813700805100
8,00	**1**	8,00	7,80	63	19	25	5	0812700810100	0813700810100
8,00	**1,25**	8,00	7,80	63	19	25	5	0812700812100	0813700812100
8,00	**2**	8,00	7,80	63	19	25	5	0812700820100	0813700820100
10,00	**0,5**	10,00	9,80	72	22	31	5	0812701005100	0813701005100
10,00	**1**	10,00	9,80	72	22	31	5	0812701010100	0813701010100
10,00	**2**	10,00	9,80	72	22	31	5	0812701020100	0813701020100

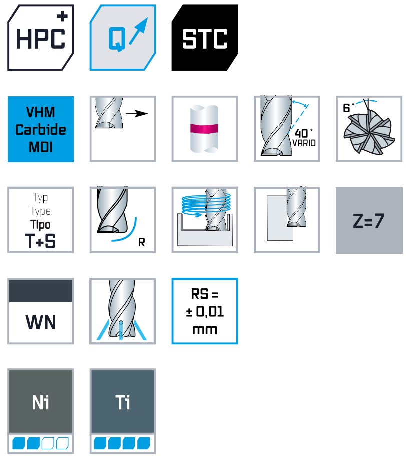
Spanbrecher 2 Stk. / Chip breaker 2 pcs. / Rompitrucioli 2 pz.
Ø 3,4,5, zentrale Innenkühlung / Ø 3,4,5, central internal coolant supply / Ø 3,4,5, centrale lubrifi cazione diretto

d1 h10 mm	r	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	DIN 6535-HA AERODUR Code 8127 Art.-Nr.	DIN 6535-HB AERODUR Code 8137 Art.-Nr.
12,00	**0,5**	12,00	11,50	83	26	38	5	0812701205100	0813701205100
12,00	**1**	12,00	11,50	83	26	38	5	0812701210100	0813701210100
12,00	**1,5**	12,00	11,50	83	26	38	5	0812701215100	0813701215100
12,00	**2,5**	12,00	11,50	83	26	38	5	0812701225100	0813701225100
12,00	**3**	12,00	11,50	83	26	38	5	0812701230100	0813701230100
12,00	**4**	12,00	11,50	83	26	38	5	0812701240100	0813701240100
16,00	**0,5**	16,00	15,50	100	35	50	5	0812701605100	0813701605100
16,00	**1**	16,00	15,50	100	35	50	5	0812701610100	0813701610100
16,00	**1,5**	16,00	15,50	100	35	50	5	0812701615100	0813701615100
16,00	**2,5**	16,00	15,50	100	35	50	5	0812701625100	0813701625100
16,00	**3**	16,00	15,50	100	35	50	5	0812701630100	0813701630100
16,00	**4**	16,00	15,50	100	35	50	5	0812701640100	0813701640100
20,00	**1**	20,00	19,50	112	40	62	5	0812702010100	0813702010100
20,00	**2**	20,00	19,50	112	40	62	5	0812702020100	0813702020100
20,00	**3**	20,00	19,50	112	40	62	5	0812702030100	0813702030100
20,00	**4**	20,00	19,50	112	40	62	5	0812702040100	0813702040100



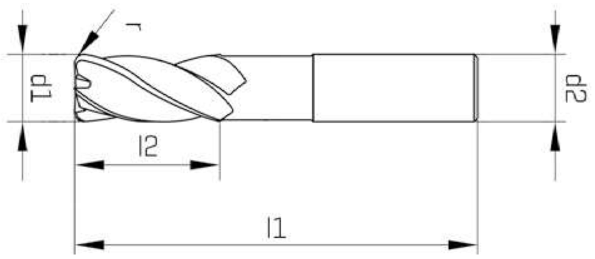
Spanbrecher 2 Stk. / Chip breaker 2 pcs. / Rompitrucioli 2 pz.
Ø 3,4,5, zentrale Innenkühlung / Ø 3,4,5, central internal coolant supply / Ø 3,4,5, centrale lubrifi cazione diretto

D HPC-Schaftfräser mit Eckenradius, Speedcut 4.0-Titanium, lang, Siebenschneider, ungleiche Drallsteigung, mit Innenkühlung



E HPC corner radius end mill Speedcut 4.0-Titanium, long series, seven flutes, different spiral angles, with internal coolant supply

I Frese frontali HPC con spigolo raggiato Speedcut 4.0-Titanium, serie lunga, 7 taglienti, angolo elica disuguale, con fori lubrificazione



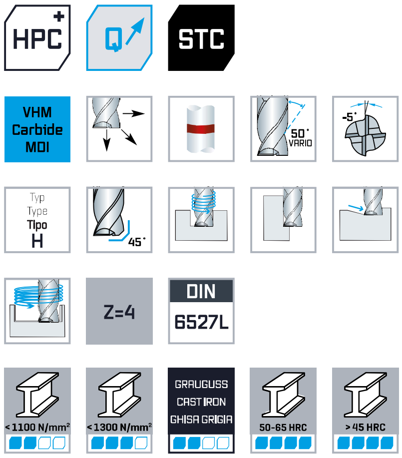
d1 h10 mm	r	d2 h6 mm	l1 mm	l2 mm	Z	DIN 6535-HA AERODUR Code 8147 Art.-Nr.	DIN 6535-HB AERODUR Code 8157 Art.-Nr.
3,00	0,25	6,00	57	8	7	0814700302100	0815700302100
3,00	0,5	6,00	57	8	7	0814700305100	0815700305100
4,00	0,25	6,00	57	11	7	0814700402100	0815700402100
4,00	0,5	6,00	57	11	7	0814700405100	0815700405100
5,00	0,25	6,00	57	13	7	0814700502100	0815700502100
5,00	0,5	6,00	57	13	7	0814700505100	0815700505100
6,00	0,25	6,00	57	13	7	0814700602100	0815700602100
6,00	0,5	6,00	57	13	7	0814700605100	0815700605100
6,00	1	6,00	57	13	7	0814700610100	0815700610100
8,00	0,25	8,00	63	19	7	0814700802100	0815700802100
8,00	0,5	8,00	63	19	7	0814700805100	0815700805100
8,00	1	8,00	63	19	7	0814700810100	0815700810100
8,00	1,25	8,00	63	19	7	0814700812100	0815700812100
8,00	2	8,00	63	19	7	0814700820100	0815700820100
10,00	0,5	10,00	72	22	7	0814701005100	0815701005100
10,00	1	10,00	72	22	7	0814701010100	0815701010100
10,00	2	10,00	72	22	7	0814701020100	0815701020100

Spanbrecher 2 Stk. / Chip breaker 2 pcs. / Rompitrucioli 2 pz.
Ø 3,4,5, zentrale Innenkühlung / Ø 3,4,5, central internal coolant supply / Ø 3,4,5, centrale lubrifi cazione diretto

d1 h10 mm	r	d2 h6 mm	l1 mm	l2 mm	Z	DIN 6535-HA AERODUR Code 8147 Art.-Nr.	DIN 6535-HB AERODUR Code 8157 Art.-Nr.
12,00	**0,5**	12,00	83	26	7	0814701205100	0815701205100
12,00	**1**	12,00	83	26	7	0814701210100	0815701210100
12,00	**1,5**	12,00	83	26	7	0814701215100	0815701215100
12,00	**2,5**	12,00	83	26	7	0814701225100	0815701225100
12,00	**3**	12,00	83	26	7	0814701230100	0815701230100
12,00	**4**	12,00	83	26	7	0814701240100	0815701240100
16,00	**0,5**	16,00	100	35	7	0814701605100	0815701605100
16,00	**1**	16,00	100	35	7	0814701610100	0815701610100
16,00	**1,5**	16,00	100	35	7	0814701615100	0815701615100
16,00	**2,5**	16,00	100	35	7	0814701625100	0815701625100
16,00	**3**	16,00	100	35	7	0814701630100	0815701630100
16,00	**4**	16,00	100	35	7	0814701640100	0815701640100
20,00	**1**	20,00	112	40	7	0814702010100	0815702010100
20,00	**2**	20,00	112	40	7	0814702020100	0815702020100
20,00	**3**	20,00	112	40	7	0814702030100	0815702030100
20,00	**4**	20,00	112	40	7	0814702040100	0815702040100

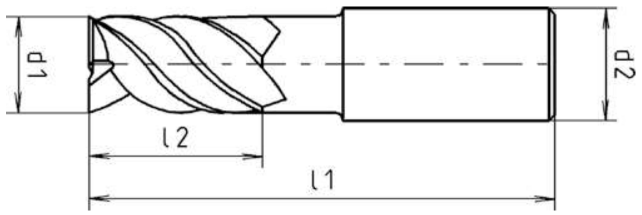
Spanbrecher 2 Stk. / Chip breaker 2 pcs. / Rompitrucioli 2 pz.
Ø 3,4,5, zentrale Innenkühlung / Ø 3,4,5, central internal coolant supply / Ø 3,4,5, centrale lubrifi cazione diretto

D HPC-Schaftfräser Speedcut 4.0-Ultra Hard Steel 50-65 HRC, lang, Vierschneider, ungleiche Drallsteigung



E HPC end mill Speedcut 4.0-Ultra Hard Steel 50-65 HRC, long series, four flutes, different spiral angles

I Frese frontali HPC Speedcut 4.0-Ultra Hard Steel 50-65 HRC, serie lunga, 4 taglienti, angolo elica disuguale



DIN 6535-HA
DUALDUR

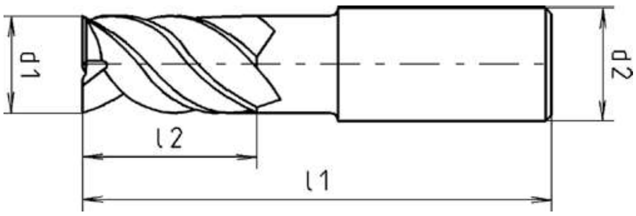
$d1_{e8}$ mm	$d2_{h6}$ mm	l1 mm	l2 mm	45°	Z	Code 8787 Art.-Nr.
4,00	6,00	57	11	0,05	4	0878700400100
5,00	6,00	57	13	0,05	4	0878700500100
6,00	6,00	57	13	0,05	4	0878700600100
8,00	8,00	63	19	0,05	4	0878700800100
10,00	10,00	72	22	0,05	4	0878701000100
12,00	12,00	83	26	0,05	4	0878701200100
14,00	14,00	83	26	0,10	4	0878701400100
16,00	16,00	92	32	0,10	4	0878701600100
20,00	20,00	104	38	0,10	4	0878702000100

D **HPC-Schaftfräser Speedcut 4.0-Ultra Hard Steel 50-65 HRC, extra lang XL, freigestellt, Vierschneider, ungleiche Drallsteigung**

E **HPC end mill Speedcut 4.0-Ultra Hard Steel 50-65 HRC, extra long series XL, neck four flutes, different spiral angles**

I **Frese frontali HPC Speedcut 4.0–Ultra Hard Steel 50-65 HRC, serie extra lunga XL, libero 4 taglienti, angolo elica disuguale**

HPC STC
VHM Carbide MDI
Typ Type Tipo H
45°
50° VARIO
-5°
Z=4
WN
< 1100 N/mm²
< 1300 N/mm²
GRAUGUSS CAST IRON GHISA GRIGIA
50-65 HRC
> 45 HRC



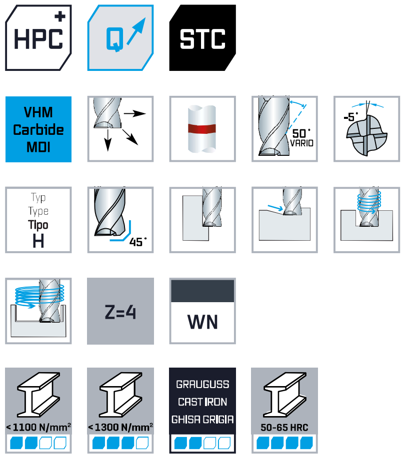
DIN 6535-HA
DUALDUR

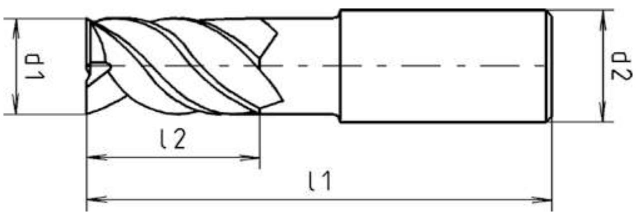
d1 e8 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 8797 Art.-Nr.
4,00	6,00	3,80	57	11	20	0,05	4	0879700400100
5,00	6,00	4,70	62	13	25	0,05	4	0879700500100
6,00	6,00	5,60	62	13	25	0,05	4	0879700600100
8,00	8,00	7,50	70	19	32	0,05	4	0879700800100
10,00	10,00	9,50	80	22	40	0,05	4	0879701000100
12,00	12,00	11,50	95	26	48	0,05	4	0879701200100
14,00	14,00	13,50	95	26	48	0,10	4	0879701400100
16,00	16,00	15,50	105	32	56	0,10	4	0879701600100
20,00	20,00	19,50	124	38	70	0,10	4	0879702000100

D **HPC-Schaftfräser Speedcut 4.0-Ultra Hard Steel 50-65 HRC, extra lang XL, freigestellt, Vierschneider, ungleiche Drallsteigung**

E **HPC end mill Speedcut 4.0-Ultra Hard Steel 50-65 HRC, extra long series XL, neck four flutes, different spiral angles**

I **Frese frontali HPC Speedcut 4.0-Ultra Hard Steel 50-65 HRC, serie extra lunga XL, libero 4 taglienti, angolo elica disuguale**





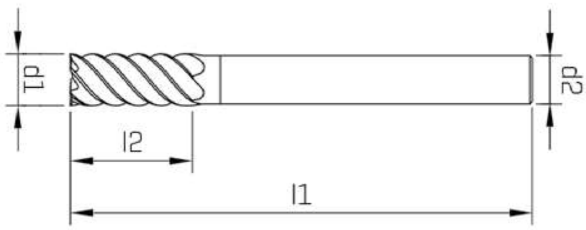
DUALDUR

d1 e8 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 8797 Art.-Nr.
12,00	12,00	95	38	0,05	4	0879701210100
16,00	16,00	105	50	0,10	4	0879701610100

VHM-Schaftfräser
Speedcut-Ultra Hard Steel
68 HRC, lang

Solid carbide end mill
Speedcut-Ultra Hard Steel
68 HRC, long series

Frese frontali MDI
Speedcut-Ultra Hard Steel
68 HRC, serie lunga



DIN 6535-HA

ALUNIT-S®

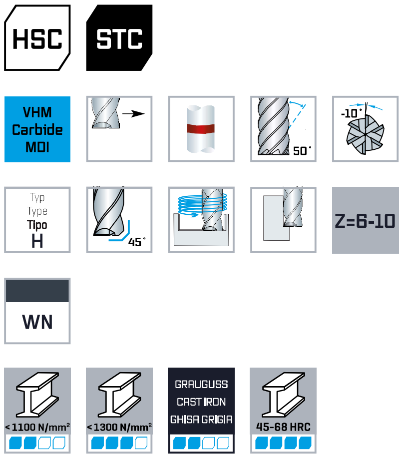
d1 e8 mm	d2 h5 mm	l1 mm	l2 mm	45°	Z	Code 7277 Art.-Nr.
4,00	6,00	57	11	0,05	6	0727700400100
5,00	6,00	57	13	0,05	6	0727700500100
6,00	6,00	57	13	0,05	6	0727700600100
8,00	8,00	63	19	0,05	6	0727700800100
10,00	10,00	72	22	0,05	6	0727701000100
12,00	12,00	83	26	0,05	6	0727701200100
14,00	14,00	83	26	0,10	6	0727701400100
16,00	16,00	92	32	0,10	8	0727701600100
20,00	20,00	104	38	0,10	10	0727702000100

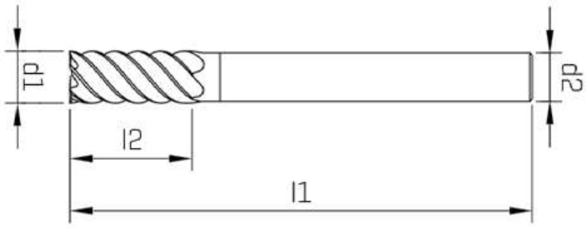
Optional ohne Aufpreis auch mit Weldon-Schaft (DIN 6535-HB) lieferbar. / Also available with Weldon-shank (DIN 6535-HB) without extra charge. / Anche disponibili con attacco Weldon (DIN 6535-HB) senza prezzo aggiuntivo.

D VHM-Schaftfräser Speedcut-Ultra Hard Steel 68 HRC, extra lang XL, freigestellt

E Solid carbide end mill Speedcut-Ultra Hard Steel 68 HRC, extra long series XL, neck

I Frese frontali MDI Speedcut–Ultra Hard Steel 68 HRC, serie extra lunga XL, libero





DIN 6535-HA

ALUNIT-S®

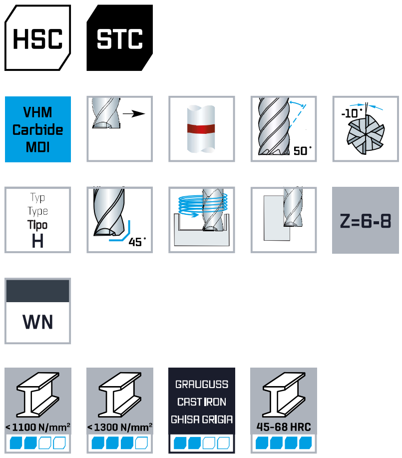
d1 e8 mm	d2 h5 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 7287 Art.-Nr.
4,00	6,00	3,80	57	11	20	0,05	6	0728700400100
5,00	6,00	4,70	62	13	25	0,05	6	0728700500100
6,00	6,00	5,60	62	13	25	0,05	6	0728700600100
8,00	8,00	7,50	70	19	32	0,05	6	0728700800100
10,00	10,00	9,50	80	22	40	0,05	6	0728701000100
12,00	12,00	11,50	95	26	48	0,05	6	0728701200100
14,00	14,00	13,50	95	26	48	0,10	6	0728701400100
16,00	16,00	15,50	105	32	56	0,10	8	0728701600100
20,00	20,00	19,50	124	38	70	0,10	10	0728702000100

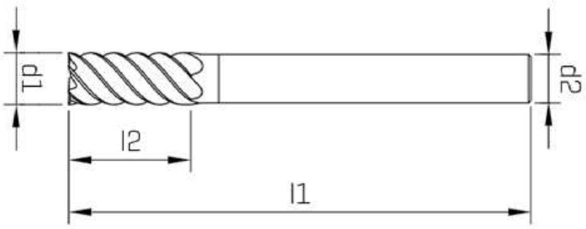
Optional ohne Aufpreis auch mit Weldon-Schaft (DIN 6535-HB) lieferbar. / Also available with Weldon-shank (DIN 6535-HB) without extra charge. / Anche disponibili con attacco Weldon (DIN 6535-HB) senza prezzo aggiuntivo.

D **VHM-Schaftfräser Speedcut-Ultra Hard Steel 68 HRC, extra lang XL, freigestellt**

E **Solid carbide end mill Speedcut-Ultra Hard Steel 68 HRC, extra long series XL, neck**

I **Frese frontali MDI Speedcut-Ultra Hard Steel 68 HRC, serie extra lunga XL, libero**



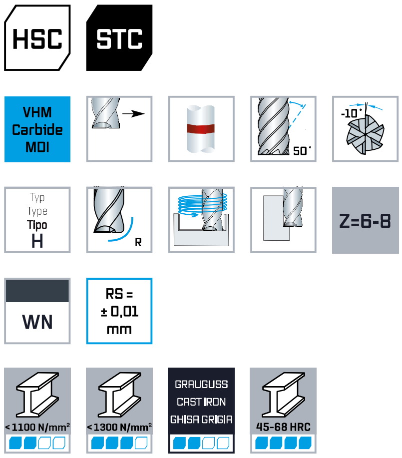


ALUNIT-S®

d1 e8 mm	d2 h5 mm	l1 mm	l2 mm	45°	Z	Code 7287 Art.-Nr.
12,00	12,00	95	38	0,05	6	0728701210100
16,00	16,00	105	50	0,10	8	0728701610100

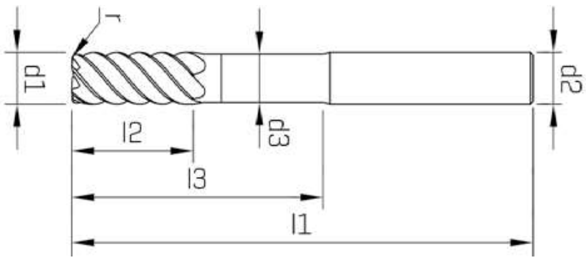
Optional ohne Aufpreis auch mit Weldon-Schaft (DIN 6535-HB) lieferbar. / Also available with Weldon-shank (DIN 6535-HB) without extra charge. / Anche disponibili con attacco Weldon (DIN 6535-HB) senza prezzo aggiuntivo.

D VHM-Schaftfräser mit Eckenradius Speedcut-Ultra Hard Steel 68 HRC, lang, freigestellt



E Solid carbide corner radius end mill Speedcut-Ultra Hard Steel 68 HRC, long series, neck

I Frese frontali MDI con spigolo raggiato Speedcut-Ultra Hard Steel 68 HRC, serie lunga, libero



ALUNIT-S®

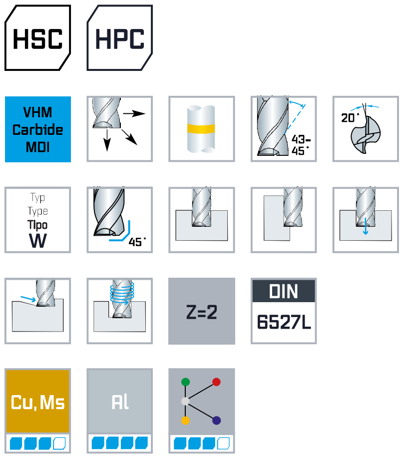
d1 $_{e8}$ mm	r	d2 $_{h5}$ mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 6647 Art.-Nr.
4,00	**0,2**	6,00	3,90	57	6	10	6	0664700402100
4,00	**0,5**	6,00	3,90	57	6	10	6	0664700405100
5,00	**0,2**	6,00	4,90	57	8	12	6	0664700502100
5,00	**0,5**	6,00	4,90	57	8	12	6	0664700505100
6,00	**0,2**	6,00	5,90	57	10	15	6	0664700602100
6,00	**0,3**	6,00	5,90	57	10	15	6	0664700603100
6,00	**0,5**	6,00	5,90	57	10	15	6	0664700605100
8,00	**0,3**	8,00	7,80	63	13	21	6	0664700803100
8,00	**0,5**	8,00	7,80	63	13	21	6	0664700805100
10,00	**0,3**	10,00	9,80	72	16	25	6	0664701003100
10,00	**0,5**	10,00	9,80	72	16	25	6	0664701005100
10,00	**1**	10,00	9,80	72	16	25	6	0664701010100
12,00	**0,5**	12,00	11,80	83	19	30	6	0664701205100
12,00	**1**	12,00	11,80	83	19	30	6	0664701210100
16,00	**0,5**	16,00	15,80	92	25	38	8	0664701605100
16,00	**1**	16,00	15,80	92	25	38	8	0664701610100

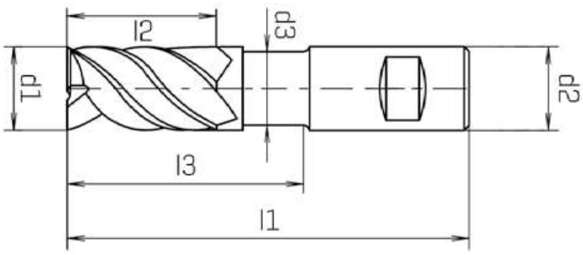
Optional ohne Aufpreis auch mit Weldon-Schaft (DIN 6535-HB) lieferbar. / Also available with Weldon-shank (DIN 6535-HB) without extra charge. / Anche disponibili con attacco Weldon (DIN 6535-HB) senza prezzo aggiuntivo.

D VHM-Schaftfräser Speedcut-Aluminium, lang, freigestellt, Zweischneider, ungleiche Drallsteigung

E Solid carbide end mill Speedcut-Aluminum, long series, neck, two flutes, different spiral angles

I Frese frontali MDI Speedcut-Alluminio, serie lunga, libero, 2 taglienti, angolo elica disuguale





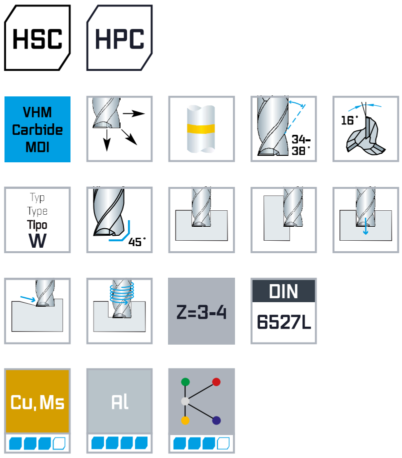
DIN 6535-HA | DIN 6535-HB

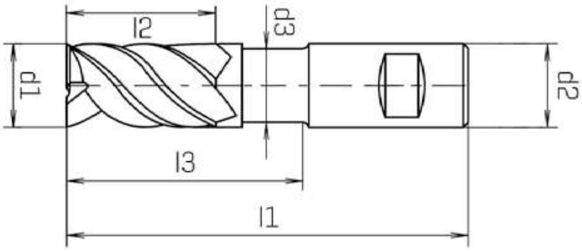
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 7035 Art.-Nr.	Code 7135 Art.-Nr.
3,00	6,00	2,90	57	8	14	0,05	2	0703500300100	0713500300100
4,00	6,00	3,60	57	11	16	0,06	2	0703500400100	0713500400100
5,00	6,00	4,60	57	13	18	0,06	2	0703500500100	0713500500100
6,00	6,00	5,50	57	13	21	0,08	2	0703500600100	0713500600100
8,00	8,00	7,50	63	19	27	0,10	2	0703500800100	0713500800100
10,00	10,00	9,50	72	22	32	0,15	2	0703501000100	0713501000100
12,00	12,00	11,50	83	26	38	0,15	2	0703501200100	0713501200100
16,00	16,00	15,00	92	32	44	0,20	2	0703501600100	0713501600100
20,00	20,00	19,00	104	38	54	0,25	2	0703502000100	0713502000100

D VHM-Schaftfräser Speedcut-Aluminium, lang, freigestellt, Dreischneider, ungleiche Drallsteigung

E Solid carbide end mill Speedcut-Aluminum, long series, neck, three flutes, different spiral angles

I Frese frontali MDI Speedcut-Alluminio, serie lunga, libero, 3 taglienti, angolo elica disuguale



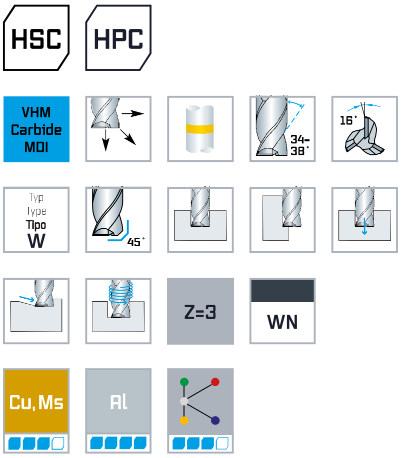


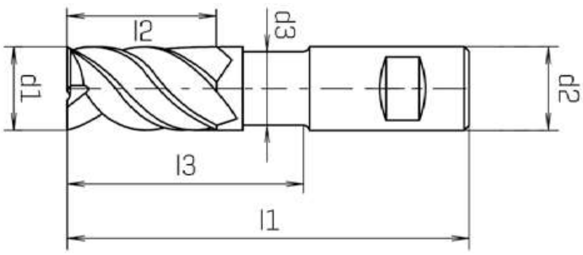
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 7250 Art.-Nr.	Code 7950 Art.-Nr.
3,00	6,00	2,90	57	8	14	0,05	3	0725000300100	0795000300100
4,00	6,00	3,60	57	11	16	0,06	3	0725000400100	0795000400100
5,00	6,00	4,60	57	13	18	0,06	3	0725000500100	0795000500100
6,00	6,00	5,50	57	13	21	0,08	3	0725000600100	0795000600100
8,00	8,00	7,50	63	19	27	0,10	3	0725000800100	0795000800100
10,00	10,00	9,50	72	22	32	0,15	3	0725001000100	0795001000100
12,00	12,00	11,50	83	26	38	0,15	3	0725001200100	0795001200100
16,00	16,00	15,00	92	32	44	0,20	3	0725001600100	0795001600100
20,00	20,00	19,00	104	38	54	0,25	3	0725002000100	0795002000100
25,00	25,00	24,00	120	45	62	0,30	4	0725002500100	0795002500100

D VHM-Schaftfräser Speedcut-Aluminium, extra lang XL, freigestellt, Dreischneider, ungleiche Drallsteigung

E Solid carbide end mill Speedcut-Aluminum, extra long series XL, neck, three flutes, different spiral angles

I Frese frontali MDI Speedcut-Alluminio, serie extra lunga XL, libero, 3 taglienti, angolo elica disuguale



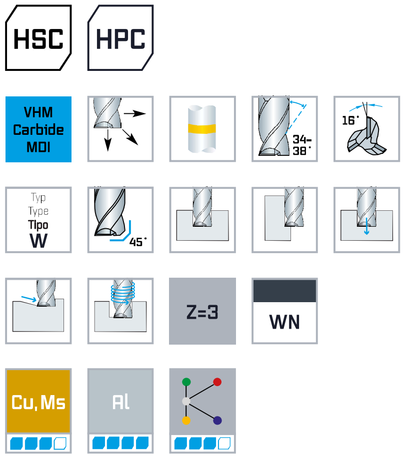


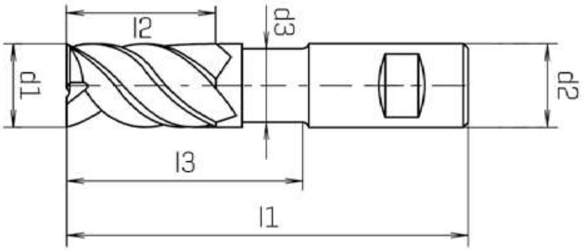
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 7220 Art.-Nr.	Code 7920 Art.-Nr.
3,00	6,00	2,80	60	8	18	0,05	3	0722000300100	0792000300100
4,00	6,00	3,80	60	11	21	0,06	3	0722000400100	0792000400100
5,00	6,00	4,70	62	13	26	0,06	3	0722000500100	0792000500100
6,00	6,00	5,60	62	13	26	0,08	3	0722000600100	0792000600100
8,00	8,00	7,50	70	19	34	0,10	3	0722000800100	0792000800100
10,00	10,00	9,50	80	22	40	0,15	3	0722001000100	0792001000100
12,00	12,00	11,50	95	26	50	0,15	3	0722001200100	0792001200100
16,00	16,00	15,50	105	32	57	0,20	3	0722001600100	0792001600100
20,00	20,00	19,50	124	38	71	0,25	3	0722002000100	0792002000100

D **VHM-Schaftfräser Speedcut-Aluminium, extra lang XXL, freigestellt, Dreischneider, ungleiche Drallsteigung**

E **Solid carbide end mill Speedcut-Aluminum, extra long series XXL, neck, three flutes, different spiral angles**

I **Frese frontali MDI Speedcut-Alluminio, serie extra lunga XXL, libero, 3 taglienti, angolo elica disuguale**





d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 7290 Art.-Nr.	Code 7990 Art.-Nr.
3,00	6,00	2,80	60	8	20	0,05	3	0729000300100	0799000300100
4,00	6,00	3,80	65	11	26	0,06	3	0729000400100	0799000400100
5,00	6,00	4,70	76	13	39	0,06	3	0729000500100	0799000500100
6,00	6,00	5,60	76	13	39	0,08	3	0729000600100	0799000600100
8,00	8,00	7,50	100	19	62	0,10	3	0729000800100	0799000800100
10,00	10,00	9,50	100	22	58	0,15	3	0729001000100	0799001000100
12,00	12,00	11,50	120	26	73	0,15	3	0729001200100	0799001200100
16,00	16,00	15,50	150	32	100	0,20	3	0729001600100	0799001600100
20,00	20,00	19,50	150	38	100	0,25	3	0729002000100	0799002000100

D **VHM-Schaftfräser mit Eckenradius Speedcut-Aluminium, lang, freigestellt, Dreischneider, ungleiche Drallsteigung**

E **Solid carbide corner radius end mill Speedcut-Aluminum, long series, neck, three flutes, different spiral angles**

I **Frese frontali MDI con spigolo raggiato Speedcut-Alluminio, serie lunga, libero, 3 taglienti, angolo elica disuguale**

HSC HPC

VHM Carbide MDI

34-38°

16°

Typ Type Tipo W

R

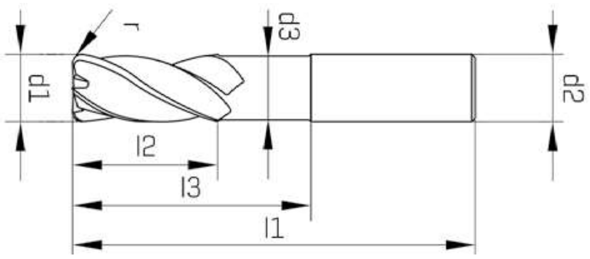
Z=3

DIN 6527L

RS = ± 0,01 mm

Cu, Ms

Al



DIN 6535-HA

d1 h10 mm	r	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 7230 Art.-Nr.
3,00	**0,5**	6,00	2,90	57	8	14	3	0723000305100
4,00	**0,5**	6,00	3,60	57	11	16	3	0723000405100
5,00	**0,5**	6,00	4,60	57	13	18	3	0723000505100
5,00	**1**	6,00	4,60	57	13	18	3	0723000510100
6,00	**0,5**	6,00	5,50	57	13	21	3	0723000605100
6,00	**1**	6,00	5,50	57	13	21	3	0723000610100
8,00	**0,5**	8,00	7,50	63	19	27	3	0723000805100
8,00	**1**	8,00	7,50	63	19	27	3	0723000810100
8,00	**2**	8,00	7,50	63	19	27	3	0723000820100
10,00	**0,5**	10,00	9,50	72	22	32	3	0723001005100
10,00	**1**	10,00	9,50	72	22	32	3	0723001010100
10,00	**2**	10,00	9,50	72	22	32	3	0723001020100
12,00	**1**	12,00	11,50	83	26	38	3	0723001210100
12,00	**2**	12,00	11,50	83	26	38	3	0723001220100
12,00	**3**	12,00	11,50	83	26	38	3	0723001230100
16,00	**1**	16,00	15,00	92	32	44	3	0723001610100
16,00	**2**	16,00	15,00	92	32	44	3	0723001620100

Optional ohne Aufpreis auch mit Weldon-Schaft (DIN 6535-HB) lieferbar. / Also available with Weldon-shank (DIN 6535-HB) without extra charge. / Anche disponibili con attacco Weldon (DIN 6535-HB) senza prezzo aggiuntivo.

VHM-Schaftfräser mit Eckenradius Speedcut-Aluminium, extra lang XL, freigestellt, Dreischneider, ungleiche Drallsteigung

Solid carbide corner radius end mill Speedcut-Aluminum, extra long series XL, neck, three flutes, different spiral angles

Frese frontali MDI con spigolo raggiato Speedcut-Alluminio, serie extra lunga XL, libero, 3 taglienti, angolo elica disuguale

HSC HPC

VHM Carbide MDI

Typ Type Tipo W

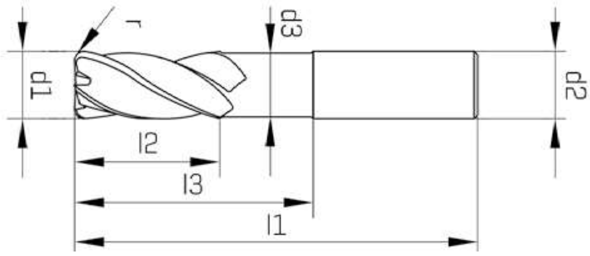
WN

Z=3

RS = ±0,01 mm

Cu, Ms

Al



DIN 6535-HA

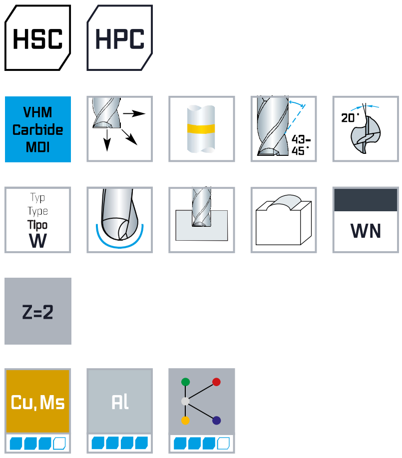
d1 h10 mm	r	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 7090 Art.-Nr.
3,00	**0,5**	6,00	2,80	60	8	18	3	0709000305100
4,00	**0,5**	6,00	3,80	60	11	21	3	0709000405100
5,00	**0,5**	6,00	4,70	62	13	26	3	0709000505100
5,00	**1**	6,00	4,70	62	13	26	3	0709000510100
6,00	**0,5**	6,00	5,60	62	13	26	3	0709000605100
6,00	**1**	6,00	5,60	62	13	26	3	0709000610100
8,00	**0,5**	8,00	7,50	70	19	34	3	0709000805100
8,00	**1**	8,00	7,50	70	19	34	3	0709000810100
8,00	**2**	8,00	7,50	70	19	34	3	0709000820100
10,00	**0,5**	10,00	9,50	80	22	40	3	0709001005100
10,00	**1**	10,00	9,50	80	22	40	3	0709001010100
10,00	**2**	10,00	9,50	80	22	40	3	0709001020100
12,00	**1**	12,00	11,50	95	26	50	3	0709001210100
12,00	**2**	12,00	11,50	95	26	50	3	0709001220100
12,00	**3**	12,00	11,50	95	26	50	3	0709001230100
16,00	**1**	16,00	15,50	105	32	57	3	0709001610100
16,00	**2**	16,00	15,50	105	32	57	3	0709001620100
20,00	**2**	20,00	19,50	124	38	71	3	0709002020100
20,00	**4**	20,00	19,50	124	38	71	3	0709002040100

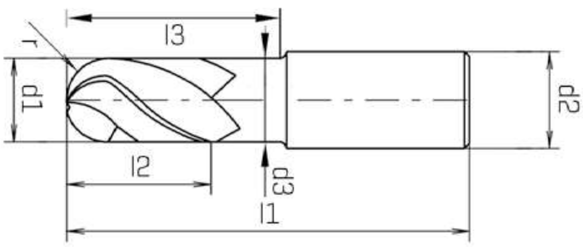
Optional ohne Aufpreis auch mit Weldon-Schaft (DIN 6535-HB) lieferbar. / Also available with Weldon-shank (DIN 6535-HB) without extra charge. / Anche disponibili con attacco Weldon (DIN 6535-HB) senza prezzo aggiuntivo.

D **VHM-Vollradiusfräser Speedcut-Aluminium, lang, freigestellt, Zweischneider, ungleiche Drallsteigung**

E **Solid carbide ballnose end mill Speedcut-Aluminum, long series, neck, two flutes, different spiral angles**

I **Frese cilindrica raggiata in metallo duro Speedcut-Alluminio, serie lunga, libero, 2 taglienti, angolo elica disuguale**





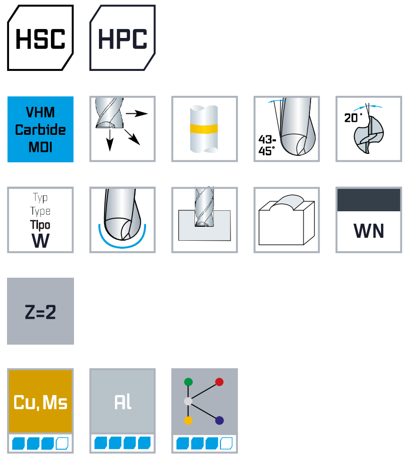
d1 h10 mm	r mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 7240 Art.-Nr.
3,00	**1,5**	6,00	2,90	57	5	16	2	0724000300100
4,00	**2**	6,00	3,90	57	6	18	2	0724000400100
5,00	**2,5**	6,00	4,90	57	8	20	2	0724000500100
6,00	**3**	6,00	5,90	57	10	20	2	0724000600100
8,00	**4**	8,00	7,80	63	12	25	2	0724000800100
10,00	**5**	10,00	9,80	72	15	30	2	0724001000100
12,00	**6**	12,00	11,80	83	18	36	2	0724001200100
16,00	**8**	16,00	15,80	92	24	42	2	0724001600100
20,00	**10**	20,00	19,50	104	30	52	2	0724002000100

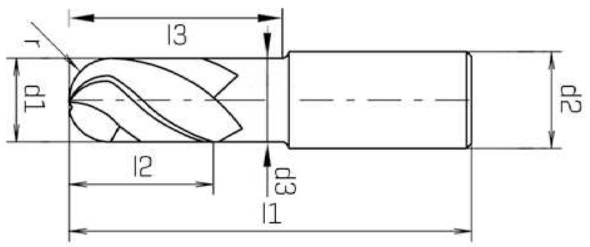
Optional ohne Aufpreis auch mit Weldon-Schaft (DIN 6535-HB) lieferbar. / Also available with Weldon-shank (DIN 6535-HB) without extra charge. / Anche disponibili con attacco Weldon (DIN 6535-HB) senza prezzo aggiuntivo.

D **VHM-Vollradiusfräser Speedcut-Aluminium, extra lang XXL, freigestellt, Zweischneider, ungleiche Drallsteigung**

E **Solid carbide ballnose end mill Speedcut-Aluminum, extra long series XXL, neck, two flutes, different spiral angles**

I **Frese cilindrica raggiata in metallo duro Speedcut-Alluminio, serie extra lunga XXL, libero, 2 taglienti, angolo elica disuguale**





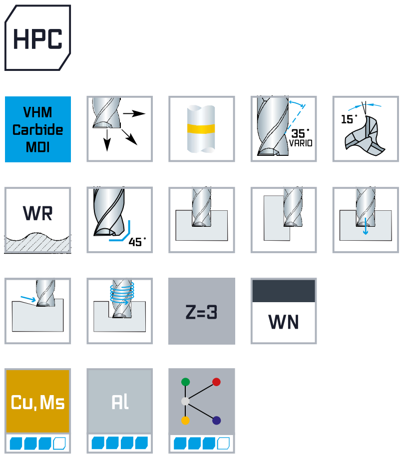
d1 h10 mm	r mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 7260 Art.-Nr.
3,00	**1,5**	6,00	2,90	60	5	20	2	0726000300100
4,00	**2**	6,00	3,90	65	6	26	2	0726000400100
5,00	**2,5**	6,00	4,90	76	8	39	2	0726000500100
6,00	**3**	6,00	5,90	76	10	39	2	0726000600100
8,00	**4**	8,00	7,80	100	12	62	2	0726000800100
10,00	**5**	10,00	9,80	100	15	58	2	0726001000100
12,00	**6**	12,00	11,80	120	18	73	2	0726001200100

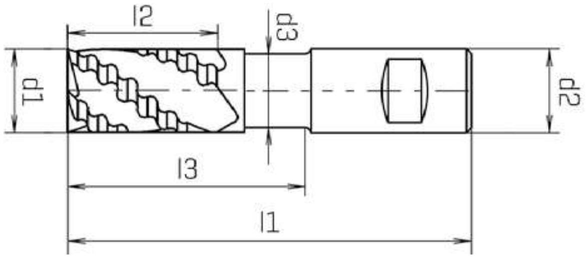
Optional ohne Aufpreis auch mit Weldon-Schaft (DIN 6535-HB) lieferbar. / Also available with Weldon-shank (DIN 6535-HB) without extra charge. / Anche disponibili con attacco Weldon (DIN 6535-HB) senza prezzo aggiuntivo.

D VHM-Schruppfräser 35° Vario Speedcut-Aluminium, lang, freigestellt, Dreischneider, ungleiche Drallsteigung, polierte Spanflächen

E Solid carbide roughing end mill 35° Vario Speedcut-Aluminum, long series, neck, three flutes, different spiral angles, polished rake face

I Frese frontali MDI a sgrossare 35° Vario Speedcut–Alluminio, serie lunga, libero, 3 taglienti, angolo elica disuguale, superfici lucidate





DIN 6535-HA

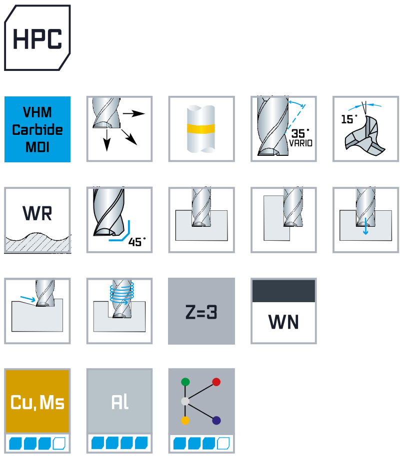
DIN 6535-HB

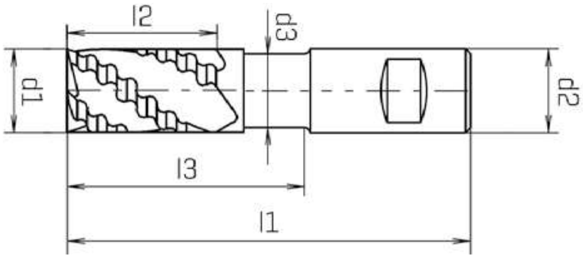
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 7015 Art.-Nr.	Code 7115 Art.-Nr.
6,00	6,00	5,60	57	10	20	0,35	3	0701500600100	0711500600100
8,00	8,00	7,50	63	13	25	0,35	3	0701500800100	0711500800100
10,00	10,00	9,50	72	16	30	0,45	3	0701501000100	0711501000100
12,00	12,00	11,50	83	19	36	0,45	3	0701501200100	0711501200100
16,00	16,00	15,50	92	25	42	0,65	3	0701501600100	0711501600100
20,00	20,00	19,50	104	31	52	0,65	3	0701502000100	0711502000100

D **VHM-Schruppfräser 35° Vario, Speedcut-Aluminium, extra lang XL, freigestellt, Dreischneider, ungleiche Drallsteigung, polierte Spanflächen**

E Solid carbide roughing end mill 35° Vario, Speedcut-Aluminum, extra long series XL, neck, three flutes, different spiral angles, polished rake face

I Frese frontali MDI a sgrossare 35° Vario, Speedcut-Alluminio, serie extra lunga XL, libero, 3 taglienti, angolo elica disuguale, superfici lucidate



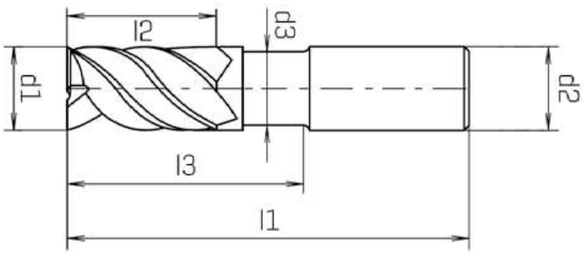


d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 7055 Art.-Nr.	Code 7155 Art.-Nr.
6,00	6,00	5,60	62	13	26	0,35	3	0705500600100	0715500600100
8,00	8,00	7,50	70	19	34	0,35	3	0705500800100	0715500800100
10,00	10,00	9,50	80	22	40	0,45	3	0705501000100	0715501000100
12,00	12,00	11,50	95	26	50	0,45	3	0705501200100	0715501200100
16,00	16,00	15,50	105	32	57	0,65	3	0705501600100	0715501600100
20,00	20,00	19,50	124	38	71	0,65	3	0705502000100	0715502000100

D **VHM-Schaftfräser ecoSpeedcut-Universal, extra kurz, Vierschneider, ungleiche Drallsteigung**

E **Solid carbide end mill ecoSpeedcut-Universal, extra short series, four flutes, different spiral angles**

I **Fresa in metallo duro ecoSpeedcut-Universali, serie extra corta, 4 taglienti, angolo dell'elica variabile**



d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	DIN 6535-HA ALUNIT-S® Code 7627 Art.-Nr.		DIN 6535-HB ALUNIT-S® Code 7127 Art.-Nr.	
4,00	6,00	3,80	40	6	10	0,20	4	0762700400100	10	0712700400100	10
6,00	6,00	5,60	40	8	12	0,20	4	0762700600100	10	0712700600100	10
8,00	8,00	7,50	50	12	16	0,25	4	0762700800100	10	0712700800100	10
10,00	10,00	9,50	50	13	20	0,25	4	0762701000100	6	0712701000100	6
12,00	12,00	11,50	55	15	24	0,25	4	0762701200100	6	0712701200100	6

D **VHM Schaftfräser Set ecoSpeedcut-Universal, 5-teilig, HA-Schaft**

E **Solid carbide end mill set ecoSpeedcut-Universal, 5 pcs., HA-shank**

I Set di frese in metallo duro ecoSpeedcut-Universali, 5 pezzi, gambo HA

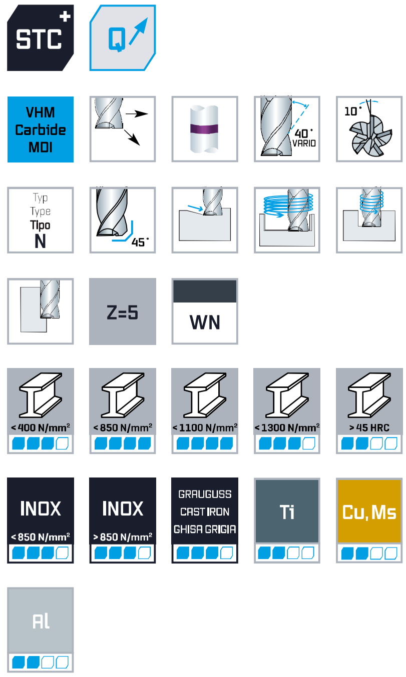
SET
Inhalt / Contents / Contenuto:
Ø 4,00 | 6,00 | 8,00 | 10,00 | 12,00 mm
Art.-Nr. 0762700005100

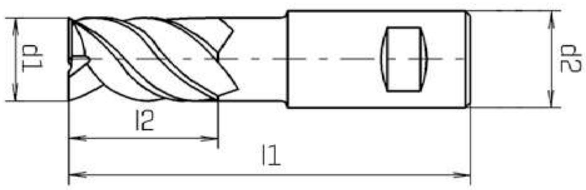
d3 = Nur für Code 7627 / Only for Code 7627 / Solo per il Codice 7627

D **Trochoidal Fräser Turbo-Twister, Allround für unterschiedliche Materialgruppen, kurz, Fünfschneider, ungleiche Drallsteigung, 2xD, Spanbrecher 2 Stk.**

E Trochoidal end mill Turbo-Twister, Allround for a variety of materials, short series, five flutes, 2xD, Chip breaker 2 pcs.

I Frese trocoidali Turbo-Twister, Adatte a diversi tipi di materiali, serie corta, 5 taglienti, angolo elica disuguale, 2xD, Rompitrucioli 2 pz.





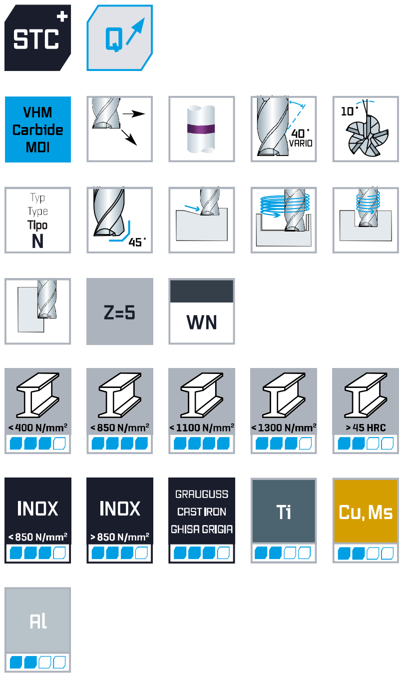
DIN 6535-HB
SUPRADUR

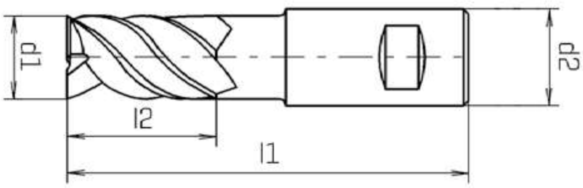
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 8002 Art.-Nr.
3,00	6,00	50	7	0,05	5	0800200300100
4,00	6,00	50	9	0,05	5	0800200400100
5,00	6,00	54	11	0,05	5	0800200500100
6,00	6,00	54	14	0,05	5	0800200600100
8,00	8,00	61	18	0,05	5	0800200800100
10,00	10,00	69	22	0,05	5	0800201000100
12,00	12,00	80	26	0,05	5	0800201200100
14,00	14,00	83	30	0,05	5	0800201400100
16,00	16,00	92	34	0,05	5	0800201600100
20,00	20,00	104	42	0,05	5	0800202000100

D **Trochoidal Fräser Turbo-Twister, Allround für unterschiedliche Materialgruppen, lang, Fünfschneider, ungleiche Drallsteigung, 3xD, Spanbrecher 2 Stk.**

E **Trochoidal end mill Turbo-Twister, Allround for a variety of materials, long series, five flutes, 3xD, Chip breaker 2 pcs.**

I **Frese trocoidali Turbo-Twister, Adatte a diversi tipi di materiali, serie lunga, 5 taglienti, angolo elica disuguale, 3xD, Rompitrucioli 2 pz.**





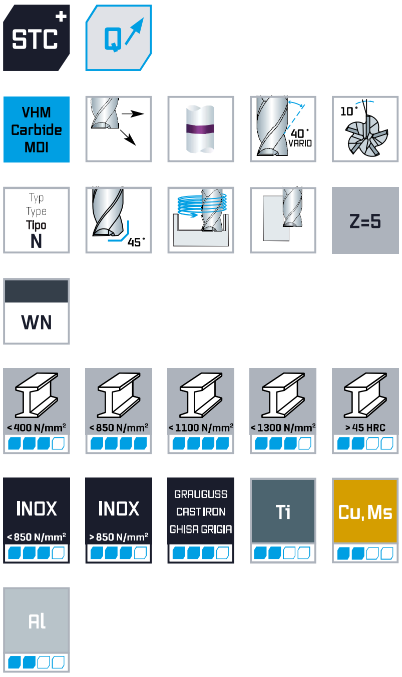
SUPRADUR

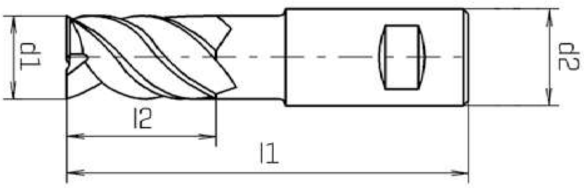
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 8003 Art.-Nr.
3,00	6,00	54	10	0,05	5	0800300300100
4,00	6,00	54	13	0,05	5	0800300400100
5,00	6,00	57	16	0,05	5	0800300500100
6,00	6,00	62	20	0,05	5	0800300600100
8,00	8,00	69	26	0,05	5	0800300800100
10,00	10,00	79	32	0,05	5	0800301000100
12,00	12,00	92	38	0,05	5	0800301200100
14,00	14,00	97	44	0,05	5	0800301400100
16,00	16,00	106	50	0,05	5	0800301600100
20,00	20,00	124	62	0,05	5	0800302000100

D **Trochoidal Fräser Turbo-Twister, Allround für unterschiedliche Materialgruppen, XL, Fünfschneider, ungleiche Drallsteigung, 4xD, Spanbrecher 3 Stk.**

E Trochoidal end mill Turbo-Twister, Allround for a variety of materials, extra long series XL, five flutes, 4xD, Chip breaker 3 pcs.

I Frese trocoidali Turbo-Twister, Adatte a diversi tipi di materiali, serie extra lunga XL, 5 taglienti, angolo elica disuguale, 4xD, Rompitrucioli 3 pz.





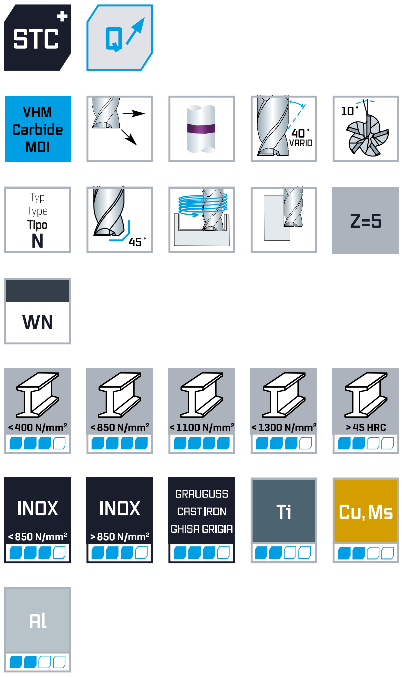
SUPRADUR

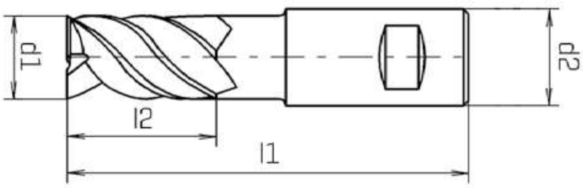
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 8004 Art.-Nr.
6,00	6,00	69	26	0,05	5	0800400600100
8,00	8,00	77	34	0,05	5	0800400800100
10,00	10,00	89	42	0,05	5	0800401000100
12,00	12,00	103	50	0,05	5	0800401200100
14,00	14,00	111	58	0,05	5	0800401400100
16,00	16,00	124	66	0,05	5	0800401600100
20,00	20,00	145	82	0,05	5	0800402000100

D **Trochoidal Fräser Turbo-Twister, Allround für unterschiedliche Materialgruppen, XXL, Fünfschneider, ungleiche Drallsteigung, 5xD, Spanbrecher 3 Stk.**

E **Trochoidal end mill Turbo-Twister, Allround for a variety of materials, extra long series XXL, five flutes, 5xD, Chip breaker 3 pcs.**

I **Frese trocoidali Turbo-Twister, Adatte a diversi tipi di materiali, serie extra lunga XXL, 5 taglienti, angolo elica disuguale, 5xD, Rompitrucioli 3 pz.**





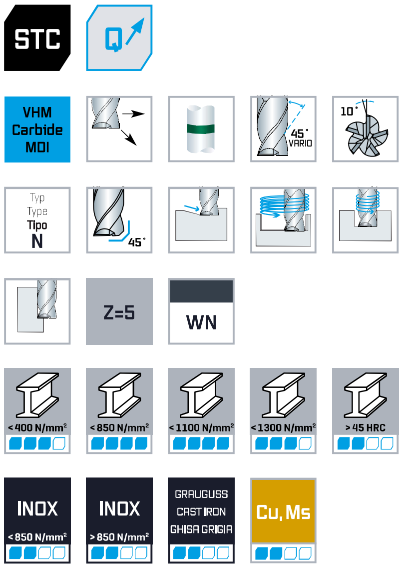
DIN 6535-HB
SUPRADUR

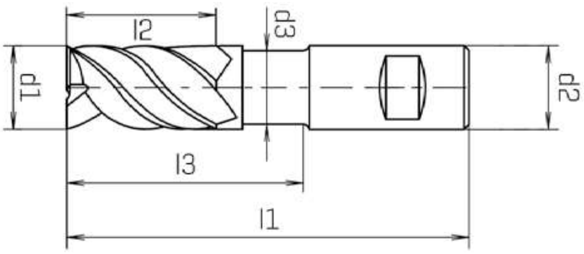
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 8005 Art.-Nr.
6,00	6,00	72	32	0,05	5	0800500600100
8,00	8,00	83	42	0,05	5	0800500800100
10,00	10,00	99	52	0,05	5	0800501000100
12,00	12,00	115	62	0,05	5	0800501200100
14,00	14,00	125	72	0,05	5	0800501400100
16,00	16,00	140	82	0,05	5	0800501600100
20,00	20,00	163	102	0,05	5	0800502000100

D **STC-Schaftfräser Speedtwister-Universal, lang, freigestellt, Fünfschneider, ungleiche Drallsteigung, 3xD, Spanbrecher 2 Stk.**

E **STC end mill Speedtwister-Universal, long series, neck, five flutes, different spiral angles, 3xD, Chip breaker 2 pcs.**

I **Fresa frontale STC Speedtwister-Universali, serie lunga, libero, 5 taglienti, angolo elica disuguale, 3xD, Rompitrucioli 2 pz.**





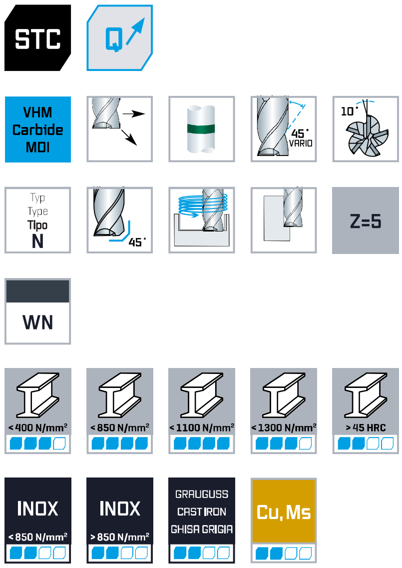
TWINDUR

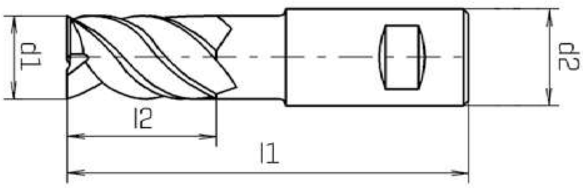
d1 f8 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 6117 Art.-Nr.
3,00	6,00	2,80	54	10	14	0,05	5	0611700300100
4,00	6,00	3,80	57	13	18	0,05	5	0611700400100
5,00	6,00	4,80	59	16	22	0,05	5	0611700500100
6,00	6,00	5,80	64	20	28	0,05	5	0611700600100
8,00	8,00	7,80	72	26	34	0,05	5	0611700800100
10,00	10,00	9,80	79	32	40	0,05	5	0611701000100
12,00	12,00	11,80	92	38	46	0,05	5	0611701200100
16,00	16,00	15,80	106	50	58	0,05	5	0611701600100
20,00	20,00	19,80	125	62	70	0,05	5	0611702000100

D **STC-Schaftfräser Speedtwister-Universal, extra lang XL, Fünfschneider, ungleiche Drallsteigung, 5xD, Spanbrecher 3 Stk.**

E **STC end mill Speedtwister-Universal, extra long series XL, five flutes, different spiral angles, 5xD, Chip breaker 3 pcs.**

I **Fresa frontale STC Speedtwister-Universali, serie extra lunga XL, 5 taglienti, angolo elica disuguale, 5xD, Rompitrucioli 3 pz.**





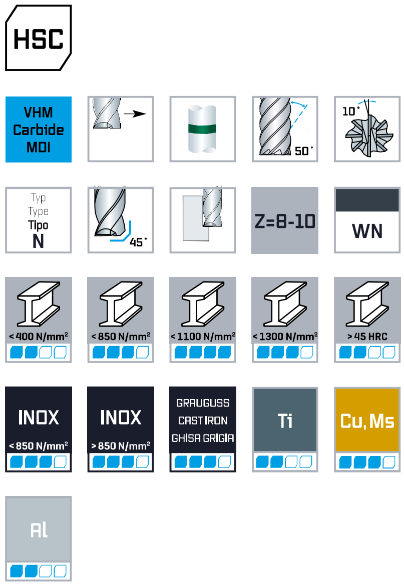
TWINDUR

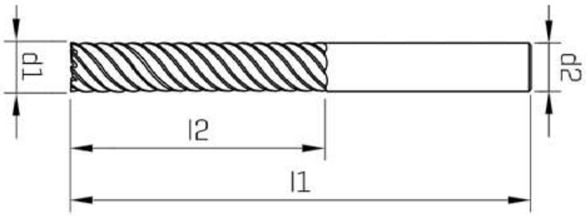
d1 f8 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 6137 Art.-Nr.
6,00	6,00	70	32	0,05	5	0613700600100
8,00	8,00	80	42	0,05	5	0613700800100
10,00	10,00	99	52	0,05	5	0613701000100
12,00	12,00	115	62	0,05	5	0613701200100
16,00	16,00	140	82	0,05	5	0613701600100

D **VHM-Mehrzahn Schlichtfräser Speedtwister-Universal, extra lang 5xD**

E **Solid carbide multi flute finishing end mill Speedtwister-Universal, extra long series 5xD**

I **Fresa in metallo duro multitagliente per finitura Speedtwister-Universale, extra serie lunga 5xD**





ALUNIT-S®

d1 e8 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 6199 Art.-Nr.
6,00	6,00	70	32	0,05	8	0619900600100
8,00	8,00	80	42	0,05	8	0619900800100
10,00	10,00	99	52	0,05	8	0619901000100
12,00	12,00	115	62	0,05	8	0619901200100
16,00	16,00	140	82	0,10	10	0619901600100

D **STC-Schaftfräser Speedtwister-Inox, lang, freigestellt, Fünfschneider, ungleiche Drallsteigung, 3xD, Spanbrecher 2 Stk**

E **STC end mill Speedtwister-Inox, long series, neck, five flutes, different spiral angles, 3xD, chip breaker 2 pcs.**

I **Fresa frontale STC Speedtwister-Inox, serie lunga, libero, 5 taglienti, angolo elica disuguale, 3xD, Rompitrucioli 2 pz.**

STC

VHM Carbide MDI

45° VARIO

10°

Typ Type Tipo N

45°

Z=5

WN

< 400 N/mm²

< 850 N/mm²

< 1100 N/mm²

< 1300 N/mm²

> 45 HRC

INOX < 850 N/mm²

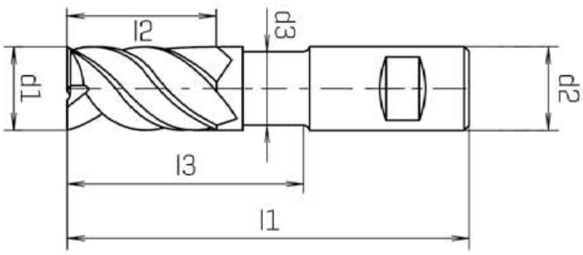
INOX > 850 N/mm²

GRAUGUSS CAST IRON GHISA GRIGIA

Ti

Cu, Ms

Al



DIN 6535-HB

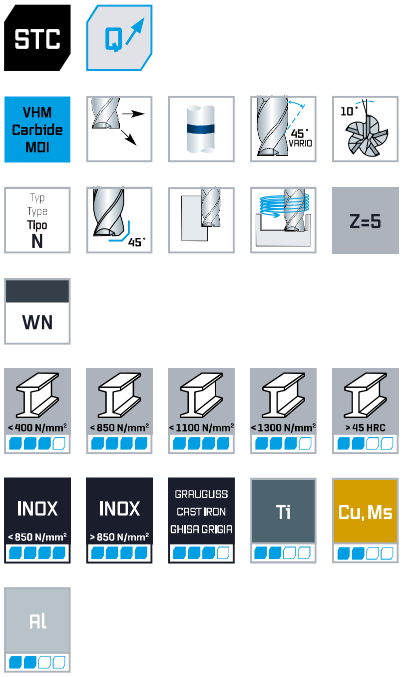
ULTRADUR

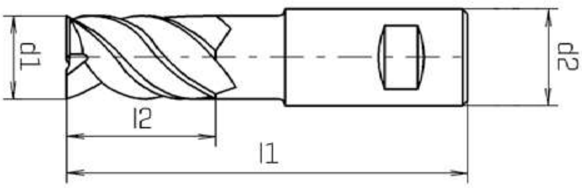
d1 f8 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 6107 Art.-Nr.
3,00	6,00	2,80	54	10	14	0,05	5	0610700300100
4,00	6,00	3,80	57	13	18	0,05	5	0610700400100
5,00	6,00	4,80	59	16	22	0,05	5	0610700500100
6,00	6,00	5,80	64	20	28	0,05	5	0610700600100
8,00	8,00	7,80	72	26	34	0,05	5	0610700800100
10,00	10,00	9,80	79	32	40	0,05	5	0610701000100
12,00	12,00	11,80	92	38	46	0,05	5	0610701200100
16,00	16,00	15,80	106	50	58	0,05	5	0610701600100
20,00	20,00	19,80	125	62	70	0,05	5	0610702000100

D **STC-Schaftfräser Speedtwister-Inox, extra lang XL, Fünfschneider, ungleiche Drallsteigung, 5xD Spanbrecher 3 Stk.**

E **STC end mill Speedtwister-Inox, extra long series XL, five flutes, different spiral angles, 5xD Chip breaker 3 pcs.**

I **Fresa a candela STC Speedtwister-Inox, extra lunga XL, cinque taglienti, elica disuguale, 5xD Rompitruciolo 3 pz.**





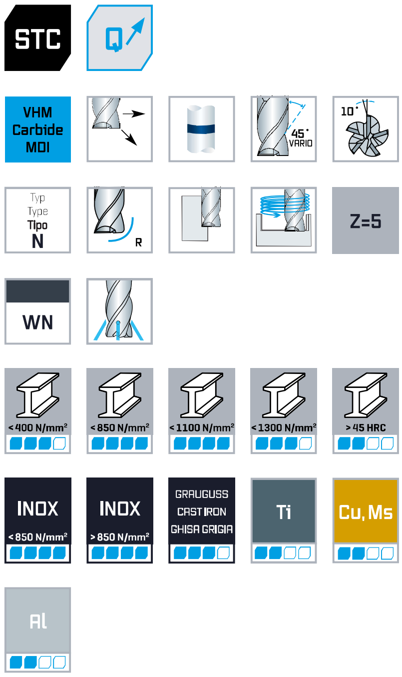
ULTRADUR

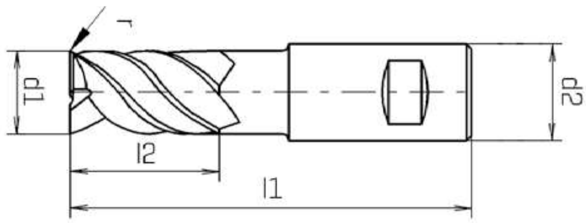
d1 f8 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 6197 Art.-Nr.
6,00	6,00	70	32	0,05	5	0600100
8,00	8,00	80	42	0,05	5	0619700800100
10,00	10,00	99	52	0,05	5	0619701000100
12,00	12,00	115	62	0,05	5	0619701200100
16,00	16,00	140	82	0,05	5	0619701600100

D **STC-Schaftfräser Speedtwister-Inox, extra lang XL, Fünfschneider, ungleiche Drallsteigung, 5xD, mit Innenkühlung, Spanbrecher 3 Stk.**

E **STC end mill Speedtwister-Inox, extra long series XL, five flutes, different spiral angles, 5xD, with internal coolant supply Chip breaker 3 pcs.**

I **Fresa frontale STC Speedtwister-Inox, serie extra lunga XL, 5 taglienti, angolo elica disuguale, 5xD, con fori lubrificazione Rompitrucioli 3 pz.**





DIN 6535-HB

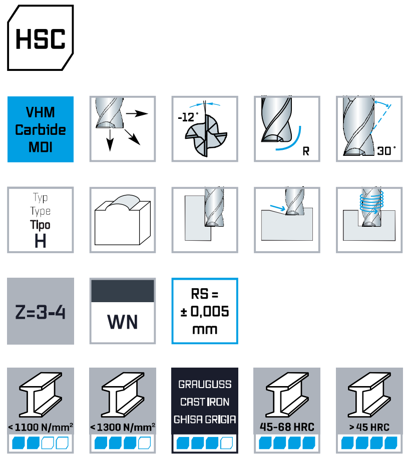
ULTRADUR

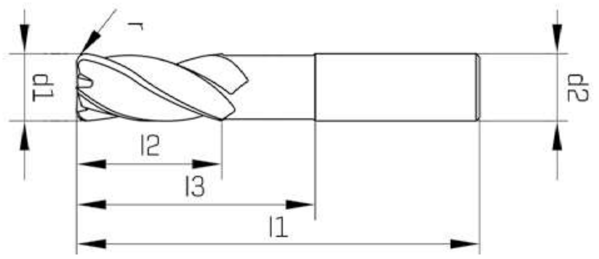
d1 f8 mm	r	d2 h6 mm	l1 mm	l2 mm	Z	Code 6198 Art.-Nr.
6,00	**0,5**	6,00	70	32	5	0619800600100
8,00	**0,5**	8,00	80	42	5	0619800800100
10,00	**0,5**	10,00	99	52	5	0619801000100
12,00	**0,5**	12,00	115	62	5	0619801200100
16,00	**0,5**	16,00	140	82	5	0619801600100

D HSC-Torusfräser kurz, Vierschneider, für den Werkzeug- und Formenbau

E HSC Torus end mill, short series, four flutes for tool and mold making

I Fresa frontale HSC Torus, serie corta, quattro taglienti





DIN 6535-HA

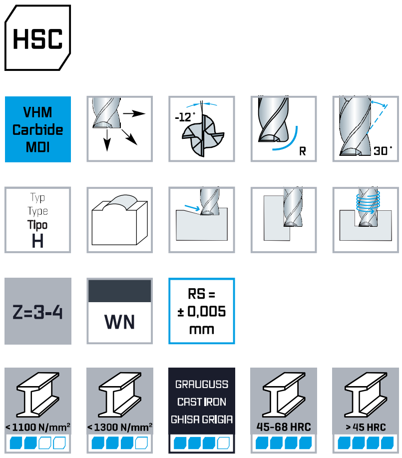
KUPRADUR

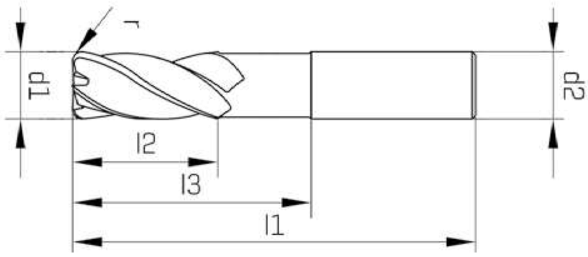
d1 e8 mm	r	d2 h5 mm	l1 mm	l2 mm	l3 mm	Z	Code 7110 Art.-Nr.
2,00	0,2	4,00	40	3	8	3	0711000202100
2,00	0,3	4,00	40	3	8	3	0711000203100
3,00	0,3	6,00	57	4	12	4	0711000303100
3,00	0,5	6,00	57	4	12	4	0711000305100
4,00	0,5	6,00	57	5	15	4	0711000405100
4,00	1	6,00	57	5	15	4	0711000410100
5,00	0,5	6,00	57	6	18	4	0711000505100
5,00	1	6,00	57	6	18	4	0711000510100
5,00	1,5	6,00	57	6	18	4	0711000515100
6,00	0,5	6,00	57	7	21	4	0711000605100
6,00	1	6,00	57	7	21	4	0711000610100
6,00	1,5	6,00	57	7	21	4	0711000615100
8,00	0,5	8,00	63	9	27	4	0711000805100
8,00	1	8,00	63	9	27	4	0711000810100
8,00	1,5	8,00	63	9	27	4	0711000815100
8,00	2	8,00	63	9	27	4	0711000820100
10,00	0,5	10,00	72	11	32	4	0711001005100
10,00	1	10,00	72	11	32	4	0711001010100
10,00	1,5	10,00	72	11	32	4	0711001015100
10,00	2	10,00	72	11	32	4	0711001020100
10,00	2,5	10,00	72	11	32	4	0711001025100
12,00	0,5	12,00	83	12	38	4	0711001205100
12,00	1	12,00	83	12	38	4	0711001210100
12,00	1,5	12,00	83	12	38	4	0711001215100
12,00	2	12,00	83	12	38	4	0711001220100
12,00	3	12,00	83	12	38	4	0711001230100
16,00	1	16,00	92	16	44	4	0711001610100
16,00	2	16,00	92	16	44	4	0711001620100
16,00	4	16,00	92	16	44	4	0711001640100

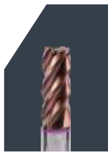
D **HSC-Torusfräser lang, Vierschneider für den Werkzeug- und Formenbau**

E **HSC Torus end mill, long series, four flutes for tool and mold making**

I **HSC Fresa toroidale, serie lunga, 4 taglienti ad alto rendimento per produzione utensili e stampi**







DIN 6535-HA
KUPRADUR

d1 e8 mm	r	d2 h5 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 7210 Art.-Nr.
2,00	**0,2**	4,00	1,70	40	3	8	3	0721000202100
3,00	**0,3**	6,00	2,70	69	4	18	4	0721000303100
3,00	**0,5**	6,00	2,70	69	4	18	4	0721000305100
4,00	**0,5**	6,00	3,70	69	5	24	4	0721000405100
4,00	**1**	6,00	3,70	69	5	24	4	0721000410100
5,00	**0,5**	6,00	4,70	69	6	30	4	0721000505100
5,00	**1**	6,00	4,70	69	6	30	4	0721000510100
6,00	**0,5**	6,00	5,70	80	7	44	4	0721000605100
6,00	**1**	6,00	5,70	80	7	44	4	0721000610100
6,00	**1,5**	6,00	5,70	57	7	21	4	0721000615100
8,00	**0,5**	8,00	7,70	80	9	44	4	0721000805100
8,00	**1**	8,00	7,70	100	9	54	4	0721000810100
8,00	**1,5**	8,00	7,70	100	9	54	4	0721000815100
8,00	**2**	8,00	7,70	100	9	54	4	0721000820100

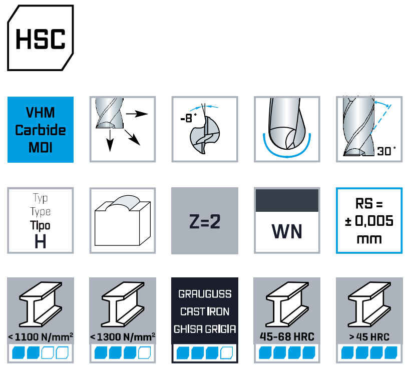
DIN 6535-HA
KUPRADUR

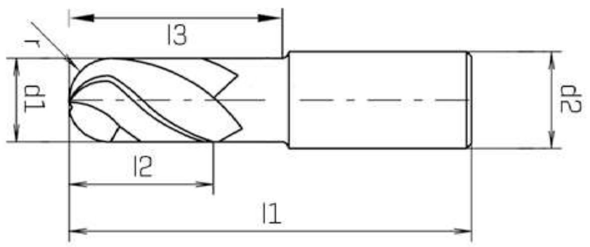
d1 e8 mm	r	d2 h5 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 7210 Art.-Nr.
10,00	**0,5**	10,00	9,70	100	11	60	4	0721001005100
10,00	**1**	10,00	9,70	100	11	60	4	0721001010100
10,00	**1,5**	10,00	9,70	100	11	60	4	0721001015100
10,00	**2**	10,00	9,70	100	11	60	4	0721001020100
10,00	**2,5**	10,00	9,70	100	11	60	4	0721001025100
12,00	**0,5**	12,00	11,70	120	12	75	4	0721001205100
12,00	**1**	12,00	11,70	120	12	75	4	0721001210100
12,00	**1,5**	12,00	11,70	120	12	75	4	0721001215100
12,00	**2**	12,00	11,70	120	12	75	4	0721001220100
12,00	**3**	12,00	11,70	120	12	75	4	0721001230100
16,00	**1**	16,00	15,70	140	16	92	4	0721001610100
16,00	**2**	16,00	15,70	140	16	92	4	0721001620100
16,00	**4**	16,00	15,70	140	16	92	4	0721001640100

D HSC-Vollradiusfräser kurz, Zweischneider, für den Werkzeug- und Formenbau

E HSC ballnose end mill, short series, two flutes, for tool and mold making

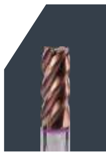
I Frese cilindrica raggiata in metallo duro, serie corta, 2 taglienti, ad alto rendimento per produzione utensili e stampi





KUPRADUR

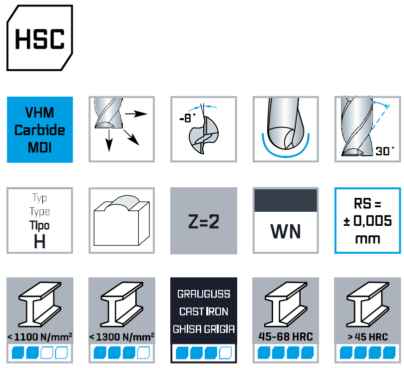
d1 e8 mm	r mm	d2 h5 mm	l1 mm	l2 mm	l3 mm	Z	Code 7060 Art.-Nr.
3,00	**1,5**	6,00	57	4	9	2	0706000300100
4,00	**2**	6,00	57	5	12	2	0706000400100
5,00	**2,5**	6,00	57	6	15	2	0706000500100
6,00	**3**	6,00	57	7	20	2	0706000600100
8,00	**4**	8,00	63	9	26	2	0706000800100
10,00	**5**	10,00	72	11	31	2	0706001000100
12,00	**6**	12,00	83	12	37	2	0706001200100
16,00	**8**	16,00	92	16	43	2	0706001600100

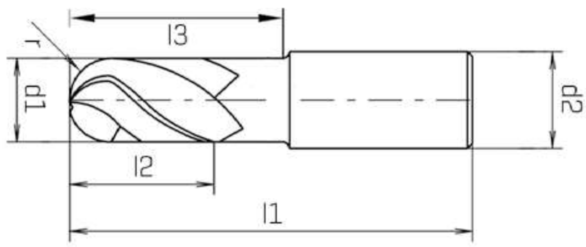


D **HSC-Vollradiusfräser lang, Zweischneider, für den Werkzeug- und Formenbau**

E **HSC ballnose end mill, long series, two flutes, for tool and mold making**

I **Frese cilindrica raggiata in metallo duro, serie lunga, 2 taglienti, ad alto rendimento per produzione utensili e stampi**





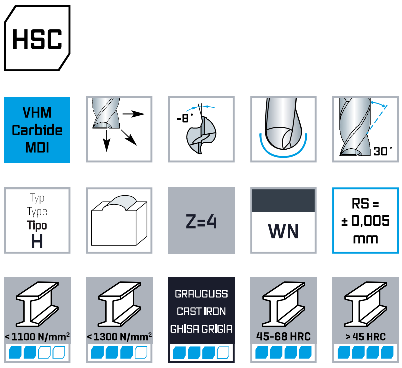
KUPRADUR

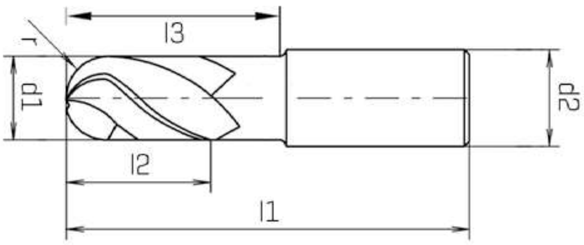
d1 e8 mm	r mm	d2 h5 mm	l1 mm	l2 mm	l3 mm	Z	Code 7160 Art.-Nr.
3,00	**1,5**	6,00	75	4	9	2	0716000300100
4,00	**2**	6,00	75	5	12	2	0716000400100
5,00	**2,5**	6,00	80	6	15	2	0716000500100
6,00	**3**	6,00	80	7	20	2	0716000600100
8,00	**4**	8,00	90	9	26	2	0716000800100
10,00	**5**	10,00	100	11	31	2	0716001000100
12,00	**6**	12,00	120	12	37	2	0716001200100

D **HSC-Vollradiusfräser kurz & lang, Vierschneider, für den Werkzeug- und Formenbau**

E **HSC ballnose end mill, short & long series, four flutes, for tool and mold making**

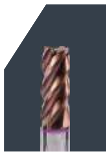
I **Frese cilindrica raggiata in metallo duro, serie corta & lunga, 4 taglienti, ad alto rendimento per produzione utensili e stampi**



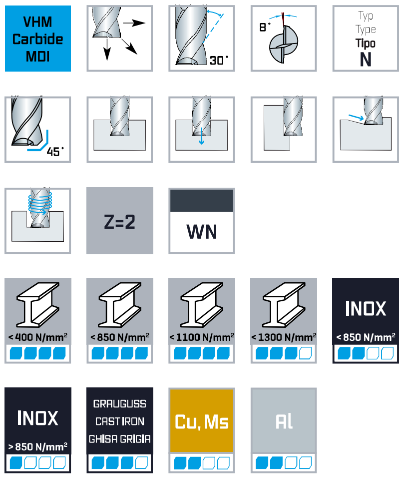


KUPRADUR

d1 e8 mm	r mm	d2 h5 mm	l1 mm	l2 mm	l3 mm	Z	Code 7030 Art.-Nr.
4,00	**2**	6,00	60	5	12	4	0703000400100
4,00	**2**	6,00	60	5	20	4	0703000405100
6,00	**3**	6,00	60	10	20	4	0703000600100
6,00	**3**	6,00	80	10	30	4	0703000605100
8,00	**4**	8,00	75	12	26	4	0703000800100
8,00	**4**	8,00	100	12	40	4	0703000810100
10,00	**5**	10,00	75	16	28	4	0703001000100
10,00	**5**	10,00	100	16	40	4	0703001010100
12,00	**6**	12,00	100	16	30	4	0703001200100
16,00	**8**	16,00	100	18	32	4	0703001600100

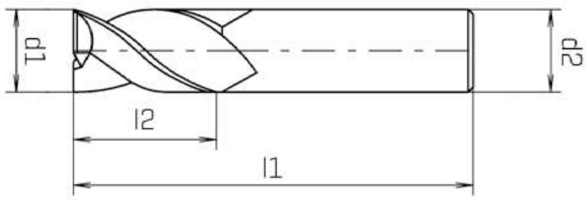


D VHM-Schaftfräser kurz, Zweischneider



E Solid carbide end mills short series, two flutes

I Frese frontali MDI serie corta, 2 taglienti



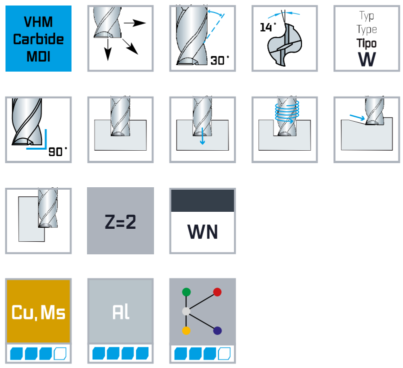
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 6015 Art.-Nr.	Code 6017 Art.-Nr.
1,00	1,00	38	5		2	0601500100100	0601700100100
1,50	1,50	38	5		2	0601500150100	0601700150100
2,00	2,00	38	8	0,04	2	0601500200100	0601700200100
2,50	2,50	38	8	0,05	2	0601500250100	0601700250100
3,00	3,00	38	12	0,05	2	0601500300100	0601700300100
3,50	3,50	40	12	0,05	2	0601500350100	0601700350100
4,00	4,00	40	12	0,06	2	0601500400100	0601700400100
4,50	4,50	50	14	0,06	2	0601500450100	0601700450100
5,00	5,00	50	14	0,06	2	0601500500100	0601700500100
6,00	6,00	50	16	0,08	2	0601500600100	0601700600100
7,00	7,00	60	20	0,10	2	0601500700100	0601700700100
8,00	8,00	63	20	0,10	2	0601500800100	0601700800100
9,00	9,00	67	20	0,12	2	0601500900100	0601700900100
10,00	10,00	72	22	0,15	2	0601501000100	0601701000100
12,00	12,00	73	22	0,15	2	0601501200100	0601701200100
14,00	14,00	75	25	0,20	2	0601501400100	0601701400100
16,00	16,00	82	28	0,20	2	0601501600100	0601701600100
18,00	18,00	84	28	0,20	2	0601501800100	0601701800100
20,00	20,00	104	35	0,25	2	0601502000100	0601702000100

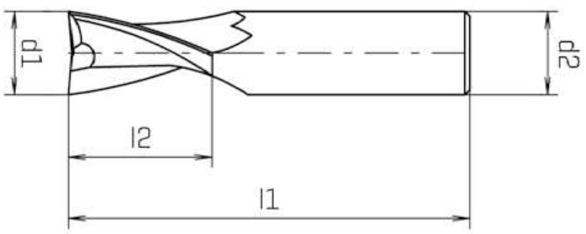
Eignung der Beschichtung: finden Sie in der Materialübersicht */ Suitability of the coating: can be found in the material overview / Idoneità del rivestimento: si trova nella panoramica dei materiali*

D VHM-Schaftfräser für Aluminium kurz, Zweischneider

E Solid carbide end mills for aluminum short series, two flutes

I Frese frontali MDI per alluminio serie corta, 2 taglienti



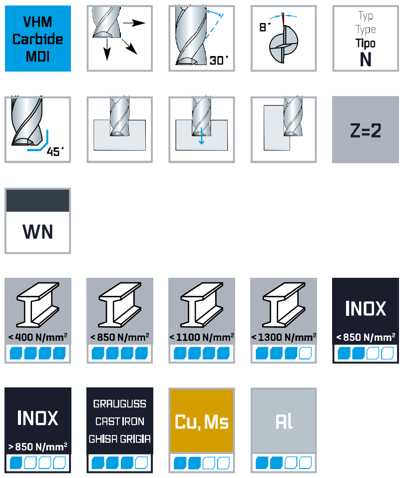


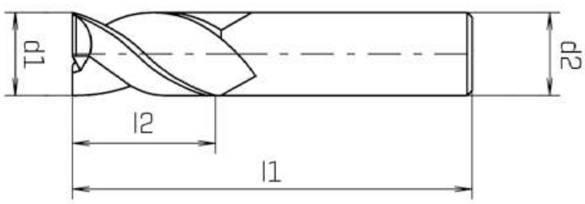
d1 h7 mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 6915 Art.-Nr.
1,00	1,00	38	5	2	0691500100100
1,50	1,50	38	5	2	0691500150100
2,00	2,00	38	8	2	0691500200100
2,50	2,50	38	8	2	0691500250100
3,00	3,00	38	12	2	0691500300100
4,00	4,00	40	12	2	0691500400100
5,00	5,00	50	14	2	0691500500100
6,00	6,00	50	16	2	0691500600100
8,00	8,00	63	20	2	0691500800100
10,00	10,00	72	22	2	0691501000100
12,00	12,00	73	22	2	0691501200100
14,00	14,00	75	25	2	0691501400100
16,00	16,00	82	28	2	0691501600100
18,00	18,00	84	28	2	0691501800100
20,00	20,00	104	35	2	0691502000100

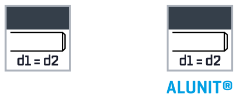
D VHM-Schaftfräser lang, Zweischneider

E Solid carbide end mills long series, two flutes

I Frese frontali MDI serie lunga, 2 taglienti







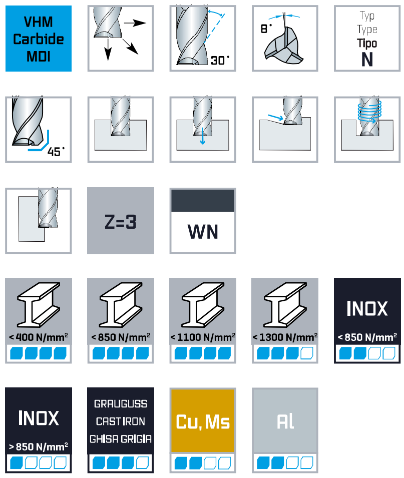
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 6025 Art.-Nr.	Code 6027 Art.-Nr.
3,00	3,00	60	25	0,05	2	0602500300100	0602700300100
4,00	4,00	60	25	0,06	2	0602500400100	0602700400100
5,00	5,00	70	30	0,06	2	0602500500100	0602700500100
6,00	6,00	70	30	0,08	2	0602500600100	0602700600100
8,00	8,00	80	35	0,10	2	0602500800100	0602700800100
10,00	10,00	100	45	0,15	2	0602501000100	0602701000100
12,00	12,00	100	45	0,15	2	0602501200100	0602701210100
12,00	12,00	150	75	0,15	2	0602501210100	0602701210100

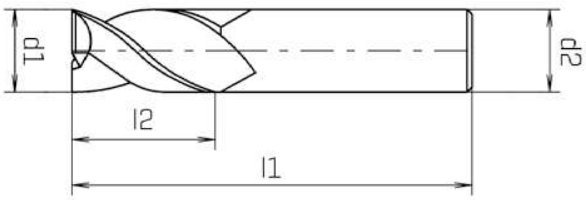
Eignung der Beschichtung: finden Sie in der Materialübersicht / *Suitability of the coating: can be found in the material overview / Idoneità del rivestimento: si trova nella panoramica dei materiali*

D VHM-Schaftfräser kurz, Dreischneider

E Solid carbide end mills short series, three flutes

I Frese frontali MDI serie corta, 3 taglienti





ALUNIT®

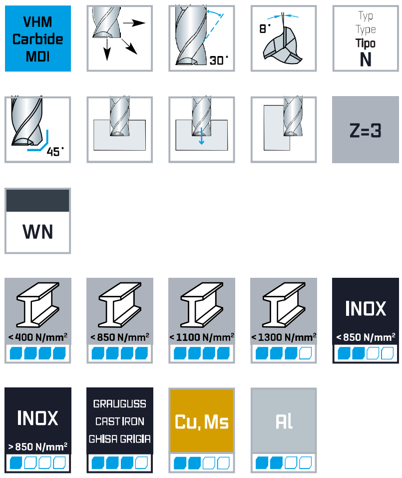
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 6055 Art.-Nr.	Code 6057 Art.-Nr.
1,00	1,00	38	5		3	0605500100100	0605700100100
1,50	1,50	38	5		3	0605500150100	0605700150100
2,00	2,00	38	8	0,04	3	0605500200100	0605700200100
2,50	2,50	38	8	0,05	3	0605500250100	0605700250100
3,00	3,00	38	12	0,05	3	0605500300100	0605700300100
3,50	3,50	40	12	0,05	3	0605500350100	0605700350100
4,00	4,00	40	12	0,06	3	0605500400100	0605700400100
4,50	4,50	50	14	0,06	3	0605500450100	0605700450100
5,00	5,00	50	14	0,06	3	0605500500100	0605700500100
6,00	6,00	50	16	0,08	3	0605500600100	0605700600100
7,00	7,00	60	20	0,10	3	0605500700100	0605700700100
8,00	8,00	63	20	0,10	3	0605500800100	0605700800100
9,00	9,00	67	20	0,12	3	0605500900100	0605700900100
10,00	10,00	72	22	0,15	3	0605501000100	0605701000100
12,00	12,00	73	22	0,15	3	0605501200100	0605701200100
14,00	14,00	75	25	0,20	3	0605501400100	0605701400100
16,00	16,00	82	28	0,20	3	0605501600100	0605701600100
18,00	18,00	84	28	0,20	3	0605501800100	0605701800100
20,00	20,00	104	35	0,25	3	0605502000100	0605702000100

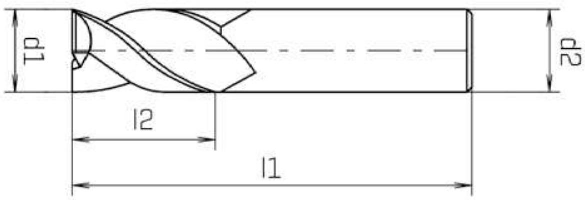
Eignung der Beschichtung: finden Sie in der Materialübersicht / *Suitability of the coating: can be found in the material overview / Idoneità del rivestimento: si trova nella panoramica dei materiali*

D VHM-Schaftfräser lang, Dreischneider

E Solid carbide end mills long series, three flutes

I Frese frontali MDI serie lunga, 3 taglienti





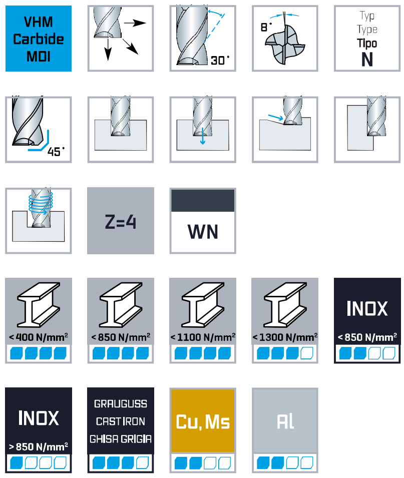
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 6065 Art.-Nr.	Code 6067 Art.-Nr.
3,00	3,00	60	25	0,05	3	0606500300100	0606700300100
4,00	4,00	60	25	0,06	3	0606500400100	0606700400100
5,00	5,00	70	30	0,06	3	0606500500100	0606700500100
6,00	6,00	70	30	0,08	3	0606500600100	0606700600100
8,00	8,00	80	35	0,10	3	0606500800100	0606700800100
10,00	10,00	100	45	0,15	3	0606501000100	0606701000100
12,00	12,00	100	45	0,15	3	0606501200100	0606701200100
12,00	12,00	150	75	0,15	3	0606501210100	
16,00	16,00	100	45	0,20	3	0606501600100	0606701600100
20,00	20,00	125	55	0,25	3	0606502000100	
20,00	20,00	150	75	0,25	3	0606502010100	

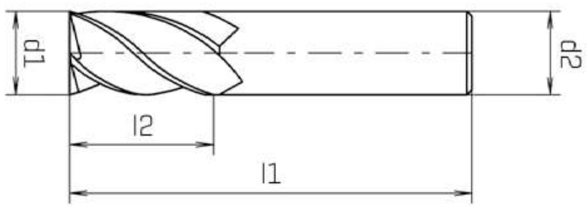
Eignung der Beschichtung: finden Sie in der Materialübersicht */ Suitability of the coating: can be found in the material overview / Idoneità del rivestimento: si trova nella panoramica dei materiali*

D VHM-Schaftfräser kurz, Vierschneider

E Solid carbide end mills short series, four flutes

I Frese frontali MDI serie corta, 4 taglienti

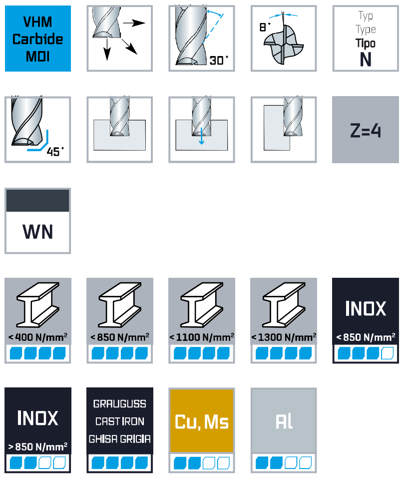


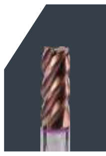


d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 6075 Art.-Nr.	Code 6077 Art.-Nr.
1,00	1,00	38	5		4	0607500100100	0607700100100
1,50	1,50	38	5		4	0607500150100	0607700150100
2,00	2,00	38	8	0,04	4	0607500200100	0607700200100
2,50	2,50	38	8	0,05	4	0607500250100	0607700250100
3,00	3,00	38	12	0,05	4	0607500300100	0607700300100
3,50	3,50	40	12	0,05	4	0607500350100	0607700350100
4,00	4,00	40	12	0,06	4	0607500400100	0607700400100
4,50	4,50	50	14	0,06	4	0607500450100	0607700450100
5,00	5,00	50	14	0,06	4	0607500500100	0607700500100
6,00	6,00	50	16	0,08	4	0607500600100	0607700600100
7,00	7,00	60	20	0,10	4	0607500700100	0607700700100
8,00	8,00	63	20	0,10	4	0607500800100	0607700800100
9,00	9,00	67	20	0,12	4	0607500900100	0607700900100
10,00	10,00	72	22	0,15	4	0607501000100	0607701000100
12,00	12,00	73	22	0,15	4	0607501200100	0607701200100
14,00	14,00	75	25	0,20	4	0607501400100	0607701400100
16,00	16,00	82	28	0,20	4	0607501600100	0607701600100
18,00	18,00	84	28	0,20	4	0607501800100	0607701800100
20,00	20,00	104	35	0,25	4	0607502000100	0607702000100

Eignung der Beschichtung: finden Sie in der Materialübersicht */ Suitability of the coating: can be found in the material overview / Idoneità del rivestimento: si trova nella panoramica dei materiali*

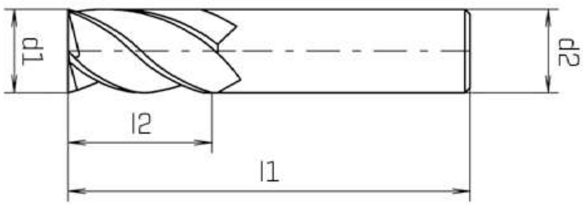
D VHM-Schaftfräser lang, Vierschneider





E Solid carbide end mills long series, four flutes

I Frese frontali MDI serie lunga, 4 taglienti



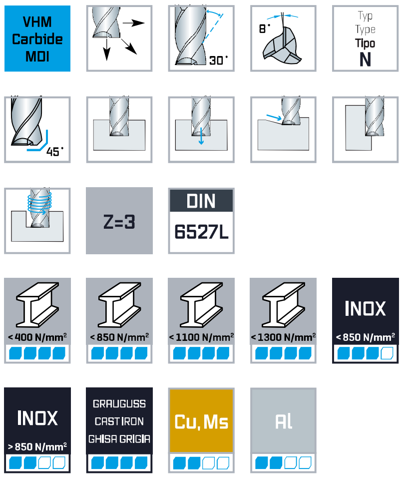
ALUNIT®

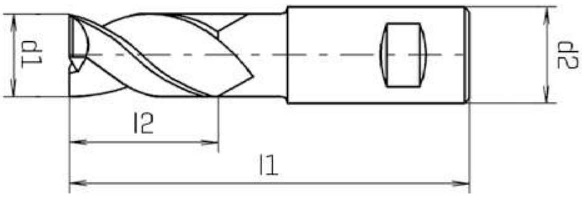
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 6087 Art.-Nr.
3,00	3,00	60	25	0,05	4	0608700300100
4,00	4,00	60	25	0,06	4	0608700400100
5,00	5,00	70	30	0,06	4	0608700500100
6,00	6,00	70	30	0,08	4	0608700600100
8,00	8,00	80	35	0,10	4	0608700800100
10,00	10,00	100	45	0,15	4	0608701000100
12,00	12,00	100	45	0,15	4	0608701200100
12,00	12,00	150	75	0,15	4	0608701210100
14,00	14,00	100	45	0,20	4	0608701400100
14.00	14,00	150	75	0,20	4	0608701410100
16,00	16,00	100	45	0,20	4	0608701600100
16,00	16,00	150	75	0,20	4	0608701610100
18,00	18,00	100	45	0,20	4	0608701800100
18,00	18,00	150	75	0,20	4	0608701810100
20,00	20,00	125	55	0,25	4	0608702000100
20,00	20,00	150	75	0,25	4	0608702010100
25,00	25,00	125	55	0,30	4	0608702500100
25,00	25,00	150	75	0,30	4	0608702510100

D VHM-Schaftfräser lang, Dreischneider, DIN 6527L, mit verstärktem Schaft

E Solid carbide end mills long series, three flutes, DIN 6527L, with reinforced shank

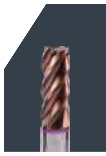
I Frese frontali MDI serie lunga, 3 taglienti, DIN 6527L, codolo rinforzato





ALUNIT®

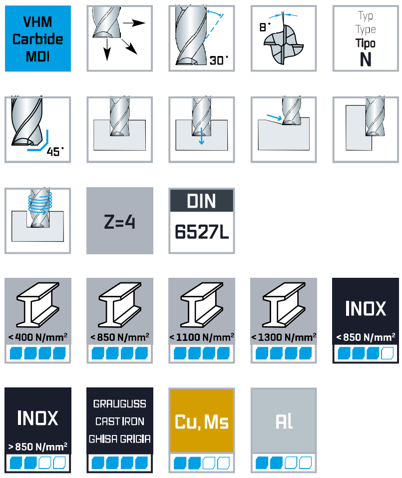
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 7657 Art.-Nr.
2,00	6,00	50	6	0,04	3	0765700200100
2,50	6,00	50	6	0,05	3	0765700250100
3,00	6,00	57	7	0,05	3	0765700300100
3,50	6,00	57	7	0,05	3	0765700350100
4,00	6,00	57	8	0,06	3	0765700400100
4,50	6,00	57	8	0,06	3	0765700450100
5,00	6,00	57	10	0,06	3	0765700500100
5,50	6,00	57	10	0,08	3	0765700550100
6,00	6,00	57	10	0,08	3	0765700600100
7,00	8,00	63	13	0,10	3	0765700700100
8,00	8,00	63	16	0,10	3	0765700800100
9,00	10,00	72	16	0,12	3	0765700900100
10,00	10,00	72	19	0,15	3	0765701000100
11,00	12,00	83	22	0,15	3	0765701100100
12,00	12,00	83	22	0,15	3	0765701200100

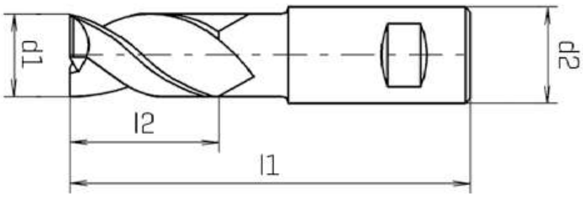


D VHM-Schaftfräser lang, Vierschneider, DIN 6527L, mit verstärktem Schaft

E Solid carbide end mills long series, four flutes, DIN 6527L, with reinforced shank

I Frese frontali MDI serie lunga, 4 taglienti, DIN 6527L, codolo rinforzato





DIN 6535-HB
ALUNIT®

d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 7677 Art.-Nr.
2,00	6,00	50	7	0,04	4	0767700200100
2,50	6,00	50	7	0,05	4	0767700250100
3,00	6,00	57	8	0,05	4	0767700300100
3,50	6,00	57	10	0,05	4	0767700350100
4,00	6,00	57	11	0,06	4	0767700400100
4,50	6,00	57	11	0,06	4	0767700450100
5,00	6,00	57	13	0,06	4	0767700500100
5,50	6,00	57	13	0,08	4	0767700550100
6,00	6,00	57	13	0,08	4	0767700600100
6,50	6,00	63	16	0,08	4	0767700650100
7,00	8,00	63	16	0,10	4	0767700700100

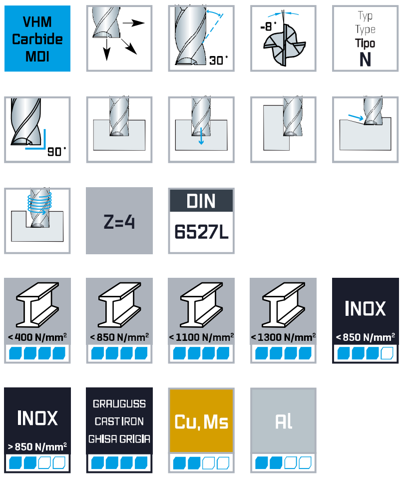
DIN 6535-HB
ALUNIT®

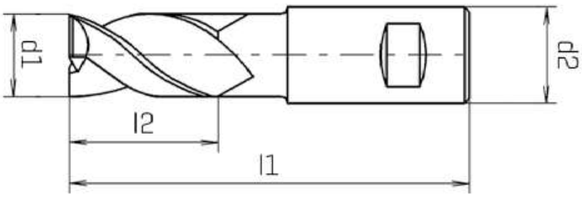
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 7677 Art.-Nr.
7,50	8,00	63	16	0,10	4	0767700750100
8,00	8,00	63	19	0,10	4	0767700800100
8,50	10,00	72	19	0,12	4	0767700850100
9,00	10,00	72	19	0,12	4	0767700900100
10,00	10,00	72	22	0,15	4	0767701000100
11,00	12,00	83	26	0,15	4	0767701100100
12,00	12,00	83	26	0,15	4	0767701200100
13,00	14,00	83	26	0,18	4	0767701300100
15,00	16,00	92	32	0,20	4	0767701500100
16,00	16,00	92	32	0,20	4	0767701600100
20,00	20,00	104	38	0,25	4	0767702000100

D **VHM-Schaftfräser lang, scharfkantig, Vierschneider, DIN 6527L, mit verstärktem Schaft**

E **Solid carbide end mills long series, sharp cutting edges, four flutes, DIN 6527L, with reinforced shank**

I **Frese frontali MDI serie lunga, spigoli tagliente affilati, 4 taglienti, DIN 6527L, codolo rinforzato**





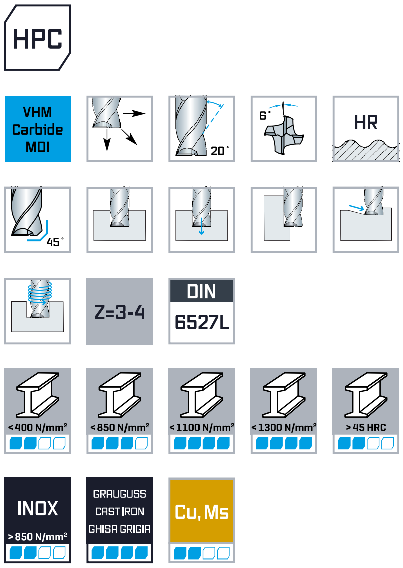
ALUNIT®

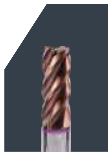
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 7617 Art.-Nr.
3,00	6,00	57	8	4	0761700300100
4,00	6,00	57	11	4	0761700400100
5,00	6,00	57	13	4	0761700500100
6,00	6,00	57	13	4	0761700600100
8,00	8,00	63	19	4	0761700800100
10,00	10,00	72	22	4	0761701000100
12,00	12,00	83	26	4	0761701200100
16,00	16,00	92	32	4	0761701600100
20,00	20,00	104	38	4	0761702000100

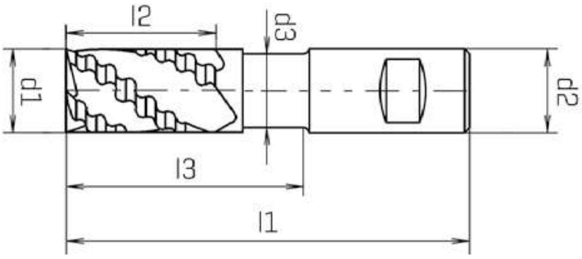
D VHM-Schruppfräser 20° lang, DIN 6527L

E Solid carbide roughing end mills 20° long series, DIN 6527L

I Frese frontali MDI a sgrossare 20° serie lunga, DIN 6527L





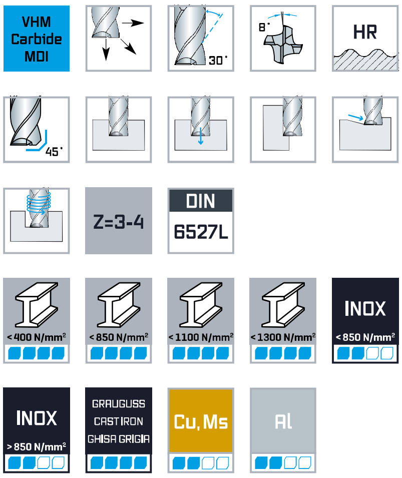


ALUNIT-S®

d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 7047 Art.-Nr.
4,00	6,00	3,80	57	11	18	0,10	3	0704700400100
5,00	6,00	4,70	57	13	20	0,20	3	0704700500100
6,00	6,00	5,60	57	13	20	0,20	3	0704700600100
8,00	8,00	7,50	63	19	25	0,20	3	0704700800100
10,00	10,00	9,50	72	22	30	0,20	4	0704701000100
12,00	12,00	11,50	83	26	36	0,35	4	0704701200100
14,00	14,00	13,50	83	26	36	0,35	4	0704701400100
16,00	16,00	15,50	92	32	42	0,35	4	0704701600100
20,00	20,00	19,50	104	38	52	0,35	4	0704702000100

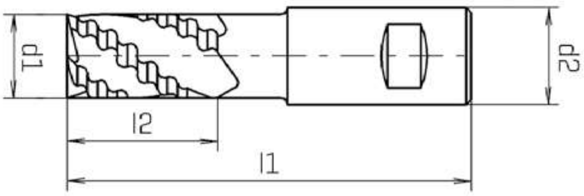
ab Ø 6 mm: HR Schruppprofil / as of Ø 6 mm: HR roughing profile / da Ø 6 mm: Profilo di sgrossatura HR
Ø 4 und 5 mm: Spanbrecher / Ø 4 and 5 mm: Chip breaker / Ø 4 e 5 mm: Rompitruciolo

D VHM-Schruppfräser 30° lang, DIN 6527L



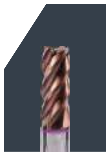
E Solid carbide roughing end mills 30° long series, DIN 6527L

I Frese frontali MDI a sgrossare 30° serie lunga, DIN 6527L



d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	45°	Z	Code 7027 Art.-Nr.
3,00	6,00	57	8	0,10	3	0702700300100
4,00	6,00	57	11	0,10	3	0702700400100
5,00	6,00	57	13	0,20	3	0702700500100
6,00	6,00	57	13	0,20	3	0702700600100
8,00	8,00	63	19	0,20	3	0702700800100
10,00	10,00	72	22	0,35	4	0702701000100
12,00	12,00	83	26	0,35	4	0702701200100
16,00	16,00	92	32	0,35	4	0702701600100
20,00	20,00	104	38	0,35	4	0702702000100

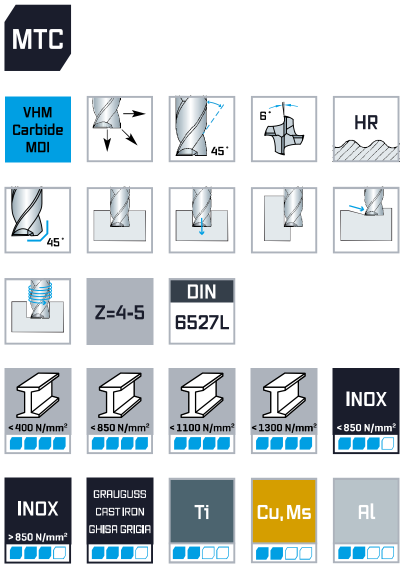
ab Ø 6 mm: HR Schruppprofil / as of Ø 6 mm: HR roughing profile / da Ø 6 mm: Profilo di sgrossatura HR
Ø 3,4 und 5 mm: Spanbrecher / Ø 3,4 and 5 mm: Chip breaker / Ø 3,4 e 5 mm: Rompitruciolo

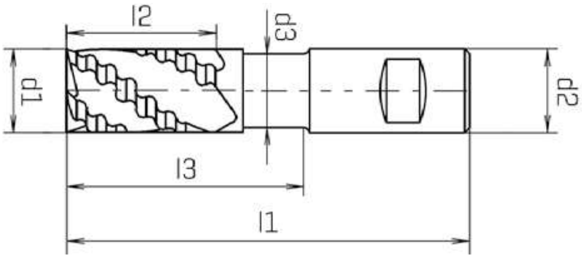


D VHM-Schruppfräser 45° lang, DIN 6527L

E Solid carbide roughing end mills 45° long series, DIN 6527L

I Frese frontali MDI a sgrossare 45° serie lunga, DIN 6527L





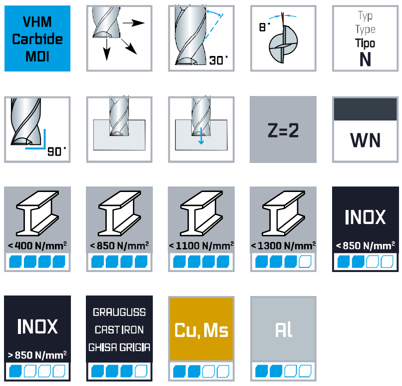
ALUNIT-S®

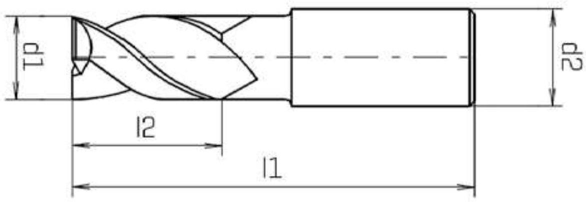
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	45°	Z	Code 7087 Art.-Nr.
6,00	6,00	5,60	57	13	20	0,20	4	0708700600100
8,00	8,00	7,50	63	19	25	0,20	4	0708700800100
10,00	10,00	9,50	72	22	30	0,20	4	0708701000100
12,00	12,00	11,50	83	26	36	0,35	4	0708701200100
16,00	16,00	15,50	92	32	42	0,35	5	0708701600100
20,00	20,00	19,50	104	38	52	0,35	5	0708702000100

D VHM-Schaftfräser mit verstärktem Schaft, Zweischneider

E Solid carbide end mills with reinforced straight shank, two flutes

I Frese frontali MDI codolo rinforzato, serie corta, 2 taglienti



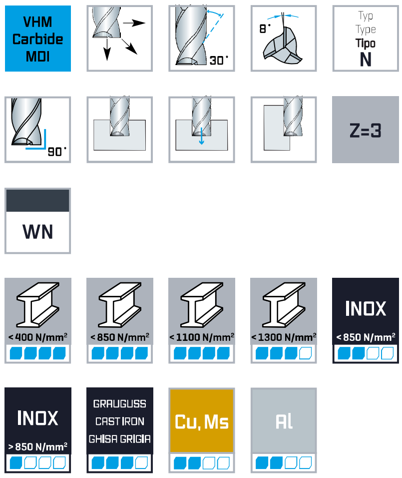


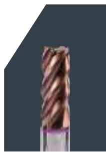
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 6615 Art.-Nr.
1,00	6,00	40	4	2	0661500100100
1,50	6,00	40	4	2	0661500150100
2,00	6,00	40	6	2	0661500200100
2,50	6,00	40	6	2	0661500250100
3,00	6,00	40	7	2	0661500300100
3,50	6,00	40	7	2	0661500350100
4,00	6,00	40	8	2	0661500400100
4,50	6,00	40	8	2	0661500450100
5,00	6,00	40	10	2	0661500500100
5,50	6,00	40	10	2	0661500550100
6,00	6,00	40	10	2	0661500600100

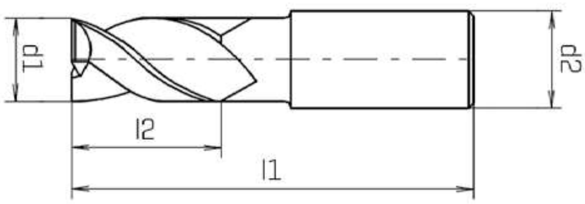
D VHM-Schaftfräser mit verstärktem Schaft, Dreischneider

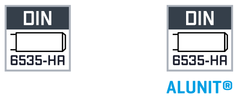
E Solid carbide end mills with reinforced straight shank, three flutes

I Frese frontali MDI codolo rinforzato, serie corta, 3 taglienti





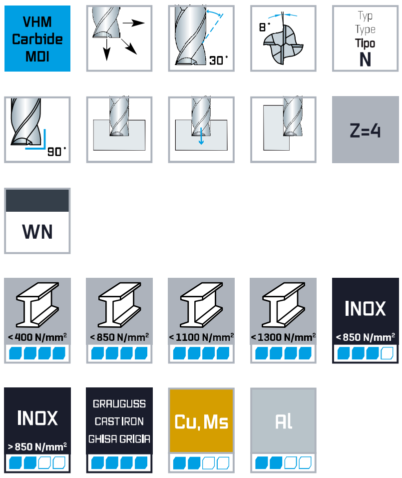




d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 6315 Art.-Nr.	Code 6317 Art.-Nr.
1,00	6,00	40	4	3	0631500100100	0631700100100
1,50	6,00	40	4	3	0631500150100	0631700150100
2,00	6,00	40	6	3	0631500200100	0631700200100
2,50	6,00	40	6	3	0631500250100	0631700250100
3,00	6,00	40	7	3	0631500300100	0631700300100
3,50	6,00	40	7	3	0631500350100	0631700350100
4,00	6,00	40	8	3	0631500400100	0631700400100
4,50	6,00	40	8	3	0631500450100	0631700450100
5,00	6,00	40	10	3	0631500500100	0631700500100
5,50	6,00	40	10	3	0631500550100	0631700550100
6,00	6,00	40	10	3	0631500600100	0631700600100

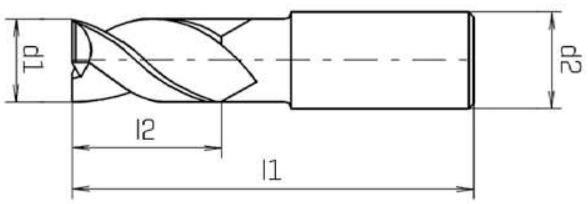
Eignung der Beschichtung: finden Sie in der Materialübersicht */ Suitability of the coating: can be found in the material overview / Idoneità del rivestimento: si trova nella panoramica dei materiali*

D VHM-Schaftfräser mit verstärktem Schaft, Vierschneider



E Solid carbide end mills with reinforced straight shank, four flutes

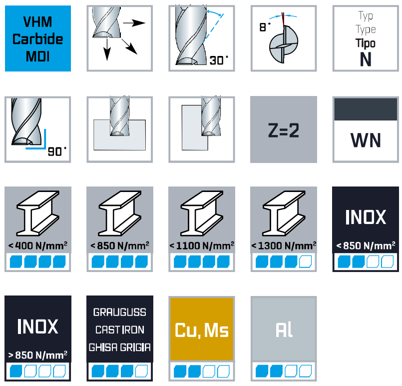
I Frese frontali MDI, codolo rinforzato, serie corta, 4 taglienti

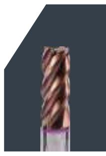


ALUNIT®

d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 6517 Art.-Nr.
1,00	6,00	40	4	4	0651700100100
1,50	6,00	40	4	4	0651700150100
2,00	6,00	40	6	4	0651700200100
2,50	6,00	40	6	4	0651700250100
3,00	6,00	40	7	4	0651700300100
3,50	6,00	40	7	4	0651700350100
4,00	6,00	40	8	4	0651700400100
4,50	6,00	40	8	4	0651700450100
5,00	6,00	40	10	4	0651700500100
5,50	6,00	40	10	4	0651700550100
6,00	6,00	40	10	4	0651700600100

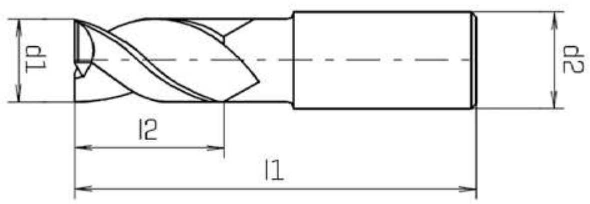
D VHM-Miniaturfräser mit verstärktem Schaft, kurz, Zweischneider





E Solid carbide mini end mills with reinforced straight shank, short series, two flutes

I Frese in miniatura MDI codolo rinforzato, serie corta, 2 taglienti

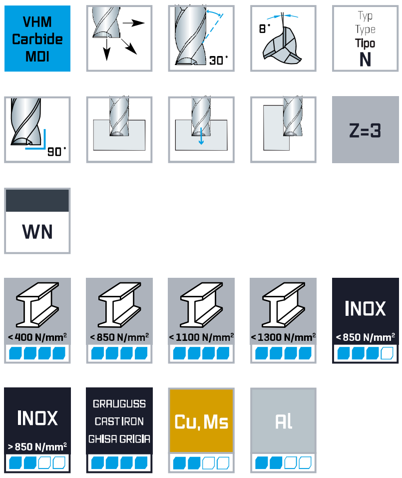


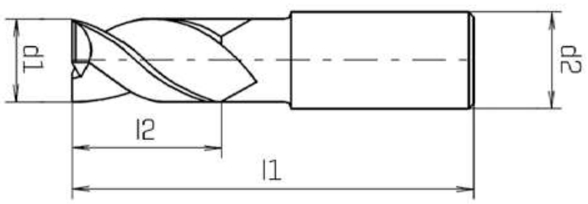
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 6245 Art.-Nr.
0,40	3,00	38	1,5	2	0624500040100
0,50	3,00	38	1,5	2	0624500050100
0,60	3,00	38	2	2	0624500060100
0,70	3,00	38	3	2	0624500070100
0,80	3,00	38	3	2	0624500080100
0,90	3,00	38	3	2	0624500090100
1,00	3,00	38	3	2	0624500100100
1,50	3,00	38	5	2	0624500150100
2,00	3,00	38	6	2	0624500200100
2,50	3,00	38	7	2	0624500250100
3,00	3,00	38	8	2	0624500300100

D **VHM-Miniaturfräser mit verstärktem Schaft, lang, Dreischneider**

E **Solid carbide mini end mills with reinforced straight shank, long series, three flutes**

I **Frese in miniatura MDI codolo rinforzato, serie lunga, 3 taglienti**





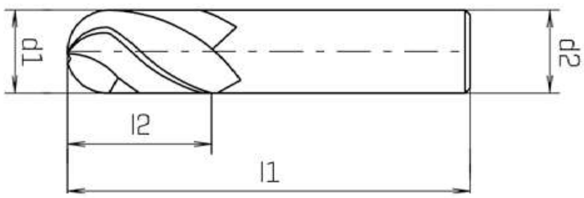
ALUNIT®

d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 6477 Art.-Nr.
1,00	3,00	38	4	3	0647700100100
1,50	3,00	38	6	3	0647700150100
2,00	3,00	38	9	3	0647700200100
2,50	3,00	38	12	3	0647700250100
3,00	3,00	38	12	3	0647700300100

D VHM-Radiusfräser kurz, Zweischneider

E Solid carbide ball nose end mills short series, two flutes

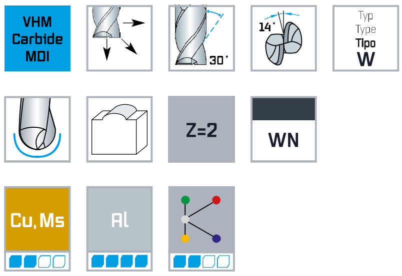
I Frese cilindriche raggiate MDI serie corta, 2 taglienti



d1 h10 mm	r mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 7525 Art.-Nr.	Code 7527 Art.-Nr.
1,00	**0,5**	1,00	38	5	2	0752500100100	0752700100100
1,50	**0,75**	1,50	38	5	2	0752500150100	0752700150100
2,00	**1**	2,00	38	8	2	0752500200100	0752700200100
2,50	**1,25**	2,50	38	8	2	0752500250100	0752700250100
3,00	**1,5**	3,00	38	12	2	0752500300100	0752700300100
3,50	**1,75**	3,50	40	12	2	0752500350100	0752700350100
4,00	**2**	4,00	40	12	2	0752500400100	0752700400100
4,50	**2,25**	4,50	50	14	2	0752500450100	0752700450100
5,00	**2,5**	5,00	50	14	2	0752500500100	0752700500100
6,00	**3**	6,00	50	16	2	0752500600100	0752700600100
8,00	**4**	8,00	63	20	2	0752500800100	0752700800100
10,00	**5**	10,00	72	22	2	0752501000100	0752701000100
12,00	**6**	12,00	73	22	2	0752501200100	0752701200100
16,00	**8**	16,00	82	28	2	0752501600100	0752701600100
20,00	**10**	20,00	104	35	2	0752502000100	0752702000100

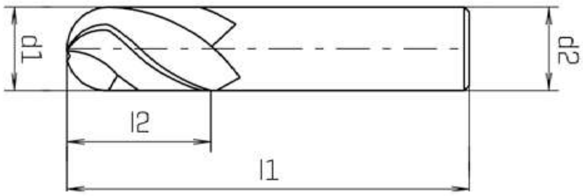
Eignung der Beschichtung: finden Sie in der Materialübersicht */ Suitability of the coating: can be found in the material overview / Idoneità del rivestimento: si trova nella panoramica dei materiali*

D VHM-Radiusfräser für Aluminium kurz, Zweischneider



E Solid carbide ball nose end mills for aluminum short series, two flutes

I Frese raggiate MDI per alluminio serie corta, 2 taglienti

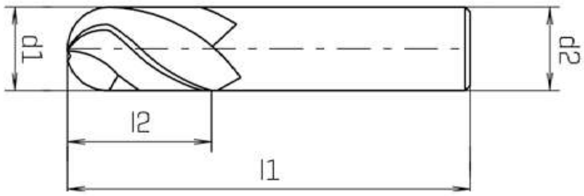


d1 h10 mm	r mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 6925 Art.-Nr.
1,00	**0,5**	1,00	38	5	2	0692500100100
2,00	**1**	2,00	38	8	2	0692500200100
3,00	**1,5**	3,00	38	12	2	0692500300100
4,00	**2**	4,00	40	12	2	0692500400100
5,00	**2,5**	5,00	50	14	2	0692500500100
6,00	**3**	6,00	50	16	2	0692500600100
8,00	**4**	8,00	63	20	2	0692500800100
10,00	**5**	10,00	72	22	2	0692501000100
12,00	**6**	12,00	73	22	2	0692501200100

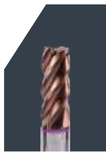
D **VHM-Radiusfräser lang, Zweischneider**

E **Solid carbide ball nose end mills long series, two flutes**

I **Frese cilindriche raggiate MDI serie lunga, 2 taglienti**



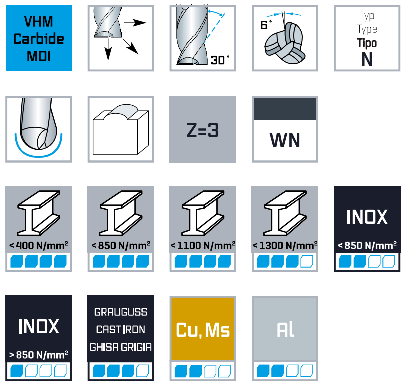
d1 h10 mm	r mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 7535 Art.-Nr.
3,00	**1,5**	3,00	60	25	2	0753500300100
4,00	**2**	4,00	60	25	2	0753500400100
5,00	**2,5**	5,00	70	30	2	0753500500100
6,00	**3**	6,00	70	30	2	0753500600100
8,00	**4**	8,00	80	35	2	0753500800100
10,00	**5**	10,00	100	45	2	0753501000100
12,00	**6**	12,00	100	45	2	0753501200100

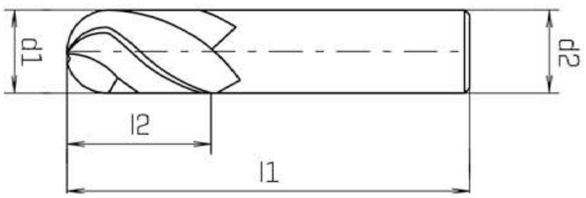


D VHM-Radiusfräser kurz, Dreischneider

E Solid carbide ball nose end mills short series, three flutes

I Frese cilindriche raggiate MDI serie corta, 3 taglienti

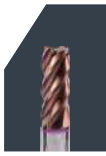




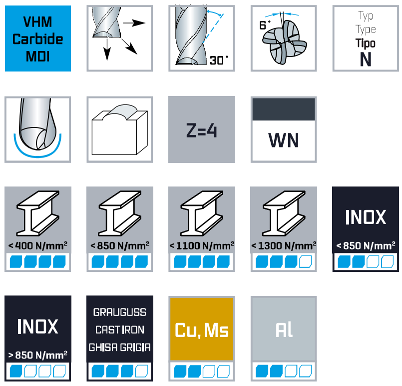
ALUNIT®

d1 h10 mm	r mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 7555 Art.-Nr.	Code 7557 Art.-Nr.
1,00	**0,5**	1,00	38	5	3	0755500100100	0755700100100
1,50	**0,75**	1,50	38	5	3	0755500150100	0755700150100
2,00	**1**	2,00	38	8	3	0755500200100	0755700200100
2,50	**1,25**	2,50	38	8	3	0755500250100	0755700250100
3,00	**1,5**	3,00	38	12	3	0755500300100	0755700300100
3,50	**1,75**	3,50	40	12	3	0755500350100	0755700350100
4,00	**2**	4,00	40	12	3	0755500400100	0755700400100
5,00	**2,5**	5,00	50	14	3	0755500500100	0755700500100
6,00	**3**	6,00	50	16	3	0755500600100	0755700600100
8,00	**4**	8,00	63	20	3	0755500800100	0755700800100
10,00	**5**	10,00	72	22	3	0755501000100	0755701000100
12,00	**6**	12,00	73	22	3	0755501200100	0755701200100

Eignung der Beschichtung: finden Sie in der Materialübersicht */ Suitability of the coating: can be found in the material overview / Idoneità del rivestimento: si trova nella panoramica dei materiali*

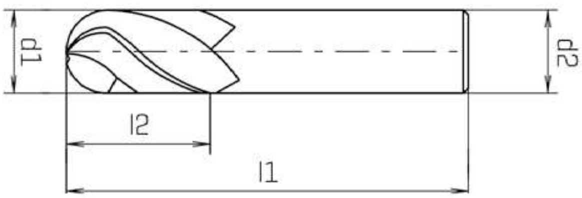


D VHM-Radiusfräser kurz, Vierschneider



E Solid carbide ball nose end mills short series, four flutes

I Frese cilindriche raggiate MDI serie corta, 4 taglienti



ALUNIT®

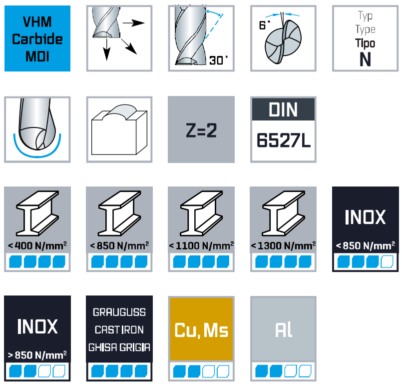
d1 h10 mm	r mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 7075 Art.-Nr.	Code 7077 Art.-Nr.
1,00	**0,5**	1,00	38	5	4	0707500100100	0707700100100
1,50	**0,75**	1,50	38	5	4	0707500150100	0707700150100
2,00	**1**	2,00	38	8	4	0707500200100	0707700200100
2,50	**1,25**	2,50	38	8	4	0707500250100	0707700250100
3,00	**1,5**	3,00	38	12	4	0707500300100	0707700300100
3,50	**1,75**	3,50	40	12	4	0707500350100	0707700350100
4,00	**2**	4,00	40	12	4	0707500400100	0707700400100
4,50	**2,25**	4,50	50	14	4	0707500450100	0707700450100
5,00	**2,5**	5,00	50	14	4	0707500500100	0707700500100
6,00	**3**	6,00	50	16	4	0707500600100	0707700600100
8,00	**4**	8,00	63	20	4	0707500800100	0707700800100
10,00	**5**	10,00	72	22	4	0707501000100	0707701000100
12,00	**6**	12,00	73	22	4	0707501200100	0707701200100
16,00	**8**	16,00	82	28	4	0707501600100	0707701600100

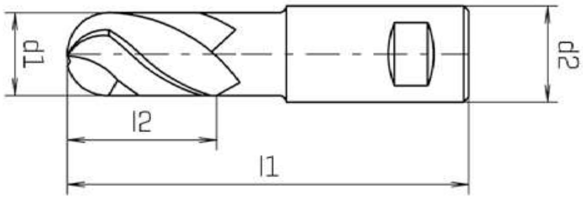
Eignung der Beschichtung: finden Sie in der Materialübersicht / *Suitability of the coating: can be found in the material overview / Idoneità del rivestimento: si trova nella panoramica dei materiali*

D VHM-Radiusfräser mit verstärktem Schaft, lang Zweischneider, DIN 6527L

E Solid carbide ball nose end mills with reinforced shank, long series, two flutes, DIN 6527L

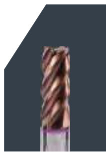
I Frese cilindriche raggiate MDI codolo rinforzato, serie lunga, 2 taglienti, DIN 6527L





ALUNIT®

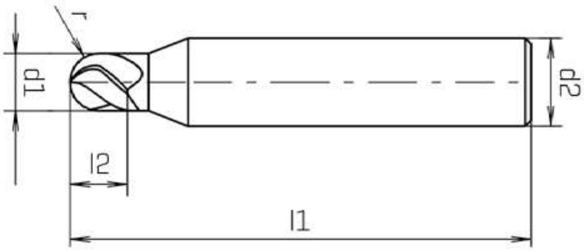
d1 h10 mm	r mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 7517 Art.-Nr.
2,00	**1**	6,00	50	6	2	0751700200100
3,00	**1,5**	6,00	57	7	2	0751700300100
4,00	**2**	6,00	57	8	2	0751700400100
5,00	**2,5**	6,00	57	10	2	0751700500100
6,00	**3**	6,00	57	10	2	0751700600100
7,00	**3,5**	8,00	63	13	2	0751700700100
8,00	**4**	8,00	63	16	2	0751700800100
9,00	**4,5**	10,00	72	16	2	0751700900100
10,00	**5**	10,00	72	19	2	0751701000100
12,00	**6**	12,00	83	22	2	0751701200100



D VHM-Miniatur-Radiusfräser mit verstärktem Schaft, kurz, Zweischneider

E Solid carbide mini ball nose end mills with reinforced shank, short series, two flutes

I Frese in miniatura raggiate MDI codolo rinforzato, serie corta, 2 taglienti

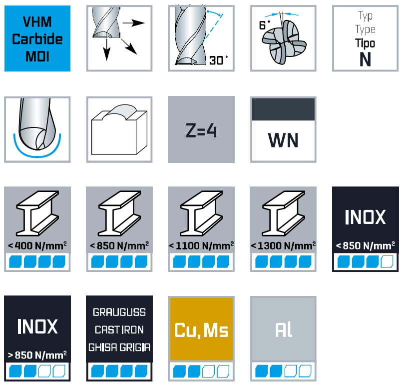


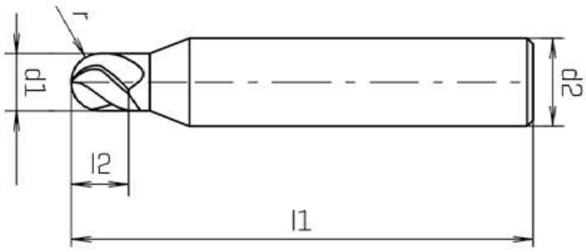
d1 h10 mm	r mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 6345 Art.-Nr.
0,40	**0,2**	3,00	38	1,5	2	0634500040100
0,50	**0,25**	3,00	38	1,5	2	0634500050100
0,60	**0,3**	3,00	38	2	2	0634500060100
0,70	**0,35**	3,00	38	3	2	0634500070100
0,80	**0,4**	3,00	38	3	2	0634500080100
0,90	**0,45**	3,00	38	3	2	0634500090100
1,00	**0,5**	3,00	38	3	2	0634500100100
1,50	**0,75**	3,00	38	5	2	0634500150100
2,00	**1**	3,00	38	6	2	0634500200100
2,50	**1,25**	3,00	38	7	2	0634500250100
3,00	**1,5**	3,00	38	8	2	0634500300100

D VHM-Miniatur Radiusfräser mit verstärktem Schaft, lang, Vierschneider

E Solid carbide mini ball nose end mills with reinforced shank, long series, four flutes

I Frese in miniatura raggiate MDI codolo rinforzato, serie lunga, 4 taglienti





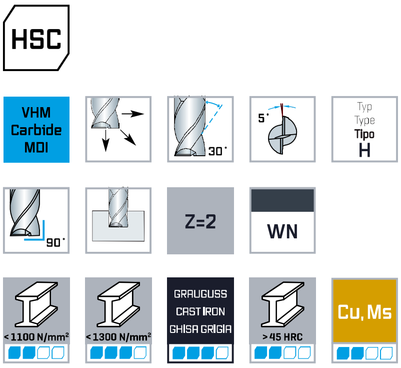
ALUNIT®

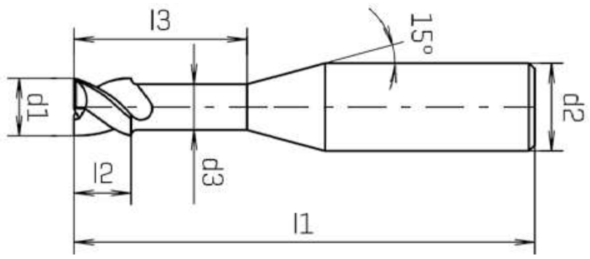
d1 h10 mm	r mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 6387 Art.-Nr.
1,00	**0,5**	3,00	38	4	4	0638700100100
1,50	**0,75**	3,00	38	6	4	0638700150100
2,00	**1**	3,00	38	9	4	0638700200100
2,50	**1,25**	3,00	38	12	4	0638700250100
3,00	**1,5**	3,00	38	12	4	0638700300100

D VHM-Miniaturfräser Zweischneider

E Solid carbide mini end mills two flutes

I Frese in miniatura MDI 2 taglienti





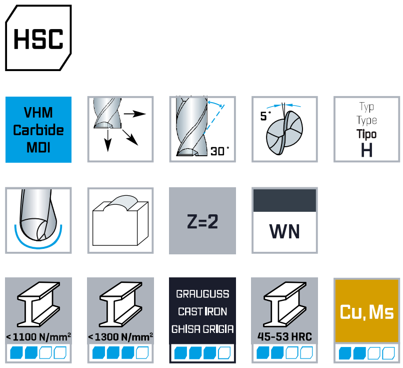
ALUNIT®

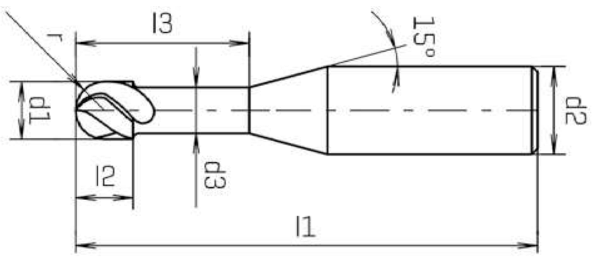
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 6257 Art.-Nr.
0,40	3,00	0,35	50	0,6	5	2	0625700040100
0,50	3,00	0,45	50	0,7	6	2	0625700050100
0,60	3,00	0,55	50	0,8	6	2	0625700060100
0,70	3,00	0,65	50	0,9	7	2	0625700070100
0,80	3,00	0,75	50	1,2	8	2	0625700080100
0,90	3,00	0,85	50	1,3	9	2	0625700090100
1,00	3,00	0,95	50	1,5	12	2	0625700100100
1,20	3,00	1,15	50	1,8	12	2	0625700120100
1,40	3,00	1,35	50	2,1	16	2	0625700140100
1,50	3,00	1,45	50	2,3	20	2	0625700150100
1,60	3,00	1,55	50	2,4	20	2	0625700160100
1,80	3,00	1,75	50	2,7	20	2	0625700180100
2,00	3,00	1,95	50	3	20	2	0625700200100
2,50	3,00	2,45	50	3,7	20	2	0625700250100
3,00	3,00	2,95	50	4	20	2	0625700300100

D VHM-Miniatur-Radius-Fräser Zweischneider

E Solid carbide mini ball nose end mills two flutes

I Frese in miniatura con punta semisferica MDI 2 taglienti





ALUNIT®

d1 h10 mm	r mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 6297 Art.-Nr.
0,40	**0,2**	3,00	0,35	50	0,6	5	2	0629700040100
0,50	**0,25**	3,00	0,45	50	0,7	6	2	0629700050100
0,60	**0,3**	3,00	0,55	50	0,8	6	2	0629700060100
0,70	**0,35**	3,00	0,65	50	0,9	7	2	0629700070100
0,80	**0,4**	3,00	0,75	50	1,2	8	2	0629700080100
0,90	**0,45**	3,00	0,85	50	1,3	9	2	0629700090100
1,00	**0,5**	3,00	0,95	50	1,5	12	2	0629700100100
1,20	**0,6**	3,00	1,15	50	1,8	12	2	0629700120100
1,40	**0,6**	3,00	1,35	50	2,1	16	2	0629700140100
1,50	**0,75**	3,00	1,45	50	2,3	20	2	0629700150100
1,60	**0,8**	3,00	1,55	50	2,4	20	2	0629700160100
1,80	**0,8**	3,00	1,75	50	2,7	20	2	0629700180100
2,00	**1**	3,00	1,95	50	3	20	2	0629700200100
2,50	**1,25**	3,00	2,45	50	3,7	20	2	0629700250100
3,00	**1,5**	3,00	2,95	50	4	20	2	0629700300100

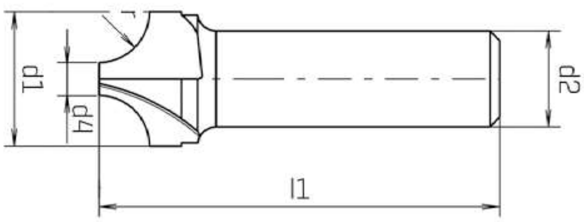
D VHM-Viertelrund-Profil-Fräser

VHM Carbide MDI | Z=4 | Typ Type Tipo N | WN

<400 N/mm² | <850 N/mm² | <1100 N/mm² | <1300 N/mm² | INOX <850 N/mm² | INOX >850 N/mm² | GRAUGUSS CAST IRON GHISA GRIGIA | Cu, Ms | Al

E Solid carbide quarter circle cutters

I Frese a profilo raggiato MDI



DIN 6535-HA | DIN 6535-HA ALUNIT®

r mm	d1 h10 mm	d2 h6 mm	d4 mm	l1 mm	Z	Code 6415 Art.-Nr.	Code 6417 Art.-Nr.
1	**8,00**	8,00	6	64	4	0641500100100	0641700100100
1,5	**8,00**	8,00	5	64	4	0641500150100	0641700150100
2	**8,00**	8,00	4	64	4	0641500200100	0641700200100
2,5	**10,00**	10,00	5	67	4	0641500250100	0641700250100
3	**10,00**	10,00	4	67	4	0641500300100	0641700300100
3,5	**12,00**	12,00	5	74	4	0641500350100	0641700350100
4	**12,00**	12,00	4	74	4	0641500400100	0641700400100
5	**16,00**	16,00	6	83	4	0641500500100	0641700500100
6	**16,00**	16,00	4	83	4	0641500600100	0641700600100
8	**26,50**	20,00	10,5	85	4	0641500800100	0641700800100
10	**32,00**	20,00	12	85	4	0641501000100	0641701000100
12	**38,00**	20,00	14	90	4	0641501200100	0641701200100

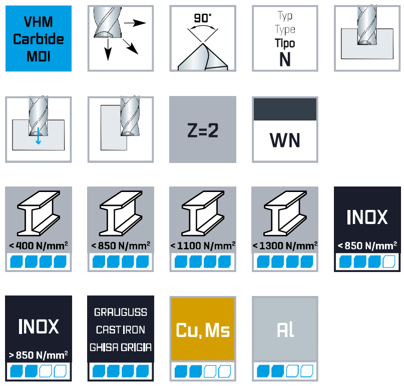
≤ R 6 = VHM / Solid carbide / MDI
> R 8 = nur VHM-Kopf / only solid carbide cutting part / parte taglienti metallo duro intregrale

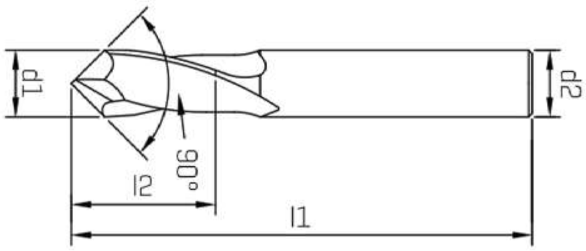
Eignung der Beschichtung: finden Sie in der Materialübersicht / *Suitability of the coating: can be found in the material overview / Idoneità del rivestimento: si trova nella panoramica dei materiali*

D VHM-Multifräser, 90°

E Solid carbide multi end mills 90°

I Multi frese MDI, 90°

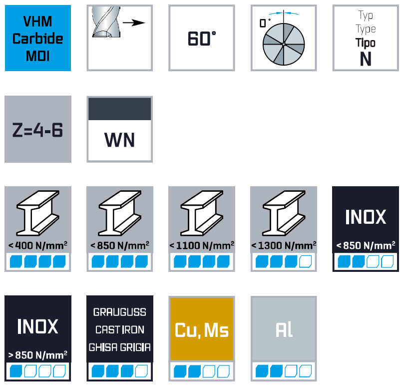




ALUNIT®

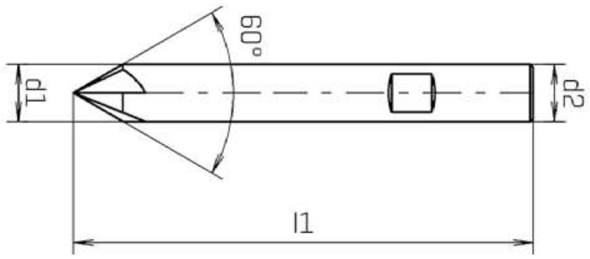
d1 h9 mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 6397 Art.-Nr.
3,00	6,00	50	6	2	0639700300100
4,00	6,00	54	8	2	0639700400100
5,00	6,00	57	10	2	0639700500100
6,00	6,00	57	12	2	0639700600100
8,00	8,00	63	16	2	0639700800100
10,00	10,00	72	18	2	0639701000100
12,00	12,00	83	20	2	0639701200100

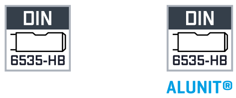
D VHM-Entgrater, 60°



E Solid carbide deburring mills, 60°

I Frese a smussare MDI, 60°





d1 h10 mm	d2 h6 mm	l1 mm	Z	Code 7725 Art.-Nr.	Code 7727 Art.-Nr.
4,00	4,00	54	4	0772500400100	0772700400100
6,00	6,00	57	4	0772500600100	0772700600100
8,00	8,00	63	4	0772500800100	0772700800100
10,00	10,00	72	4	0772501000100	0772701000100
12,00	12,00	83	4	0772501200100	0772701200100
16,00	16,00	92	6	0772501600100	0772701600100

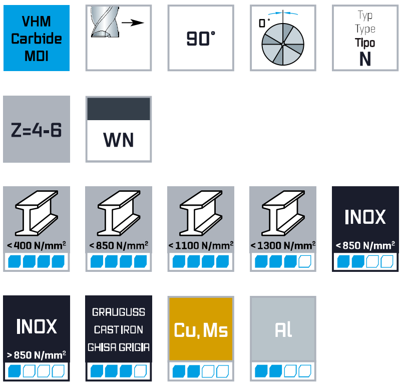
Ø 4 kein Weldon-Schaft / Ø 4 no weldon shaft / Ø 4 no gambo Weldon

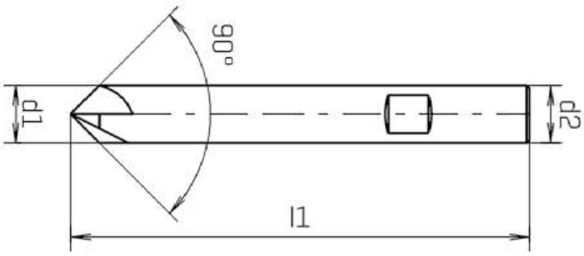
Eignung der Beschichtung: finden Sie in der Materialübersicht / *Suitability of the coating: can be found in the material overview / Idoneità del rivestimento: si trova nella panoramica dei materiali*

D VHM-Entgrater, 90°

E Solid carbide deburring mills, 90°

I Frese a smussare MDI, 90°





DIN 6535-HB | DIN 6535-HB ALUNIT®

d1 h10 mm	d2 h6 mm	l1 mm	Z	Code 7755 Art.-Nr.	Code 7757 Art.-Nr.
4,00	4,00	54	4	0775500400100	0775700400100
6,00	6,00	57	4	0775500600100	0775700600100
8,00	8,00	63	4	0775500800100	0775700800100
10,00	10,00	72	4	0775501000100	0775701000100
12,00	12,00	83	4	0775501200100	0775701200100
16,00	16,00	92	6	0775501600100	0775701600100

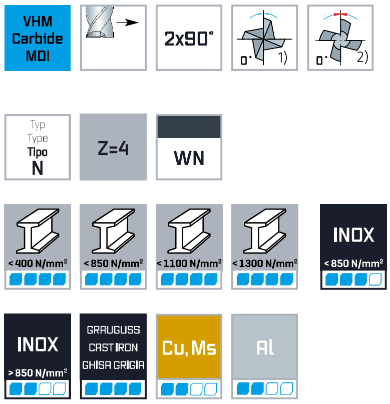
Ø 4 kein Weldon-Schaft / Ø 4 no weldon shaft / Ø 4 no gambo Weldon

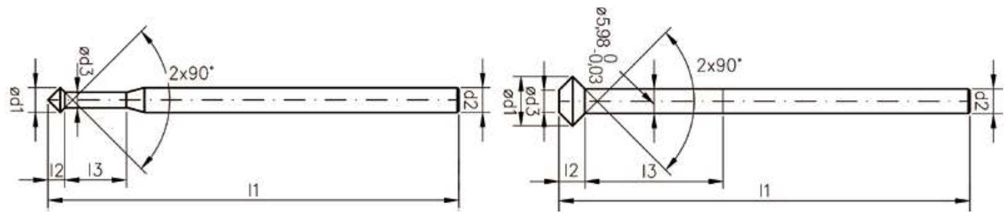
Eignung der Beschichtung: finden Sie in der Materialübersicht */ Suitability of the coating: can be found in the material overview / Idoneità del rivestimento: si trova nella panoramica dei materiali*

D VHM Vor- und Rückwärtsentgrater, 2 x 90°

E Solid carbide forward and reverse deburring mills, 2 x 90°

I Frese in metallo duro per sbavatura reversibili, 2 x 90°





DIN 6535-HA

ALUNIT-S®

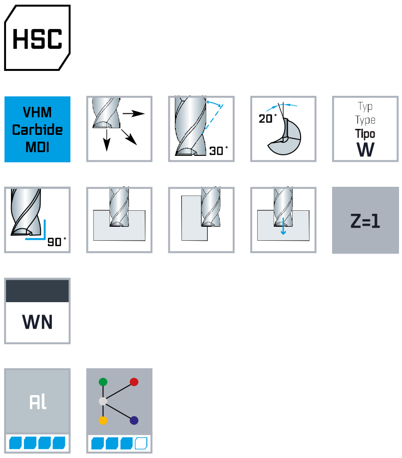
d1 h10 mm	d2 h6 mm	d3 mm	d4 mm	l1 mm	l2 mm	l3 mm	Z	Code 6507 Art.-Nr.
3,00	4,00	2,20	2,2	75	1,9	10	4	0650700300100
4,00	4,00	2,90	2,9	75	2,5	15	4	0650700400100
5,00	5,00	3,90	3,9	75	3	15	4	0650700500100
6,00	6,00	3,90	3,9	100	4	15	4	0650700600100
8,00	6,00	4,80	4,8	100	2,7	35	4	0650700800100
10,00	6,00	4,70	4,7	100	4,7	33	4	0650701000100
12,00	6,00	5,40	5,4	100	6,4	31	4	0650701200100

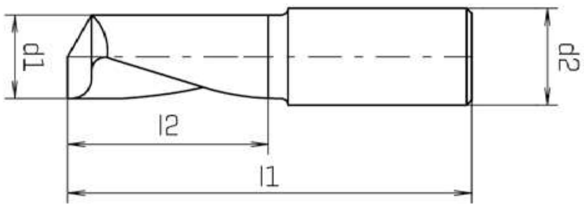
1) d1: Ø 3 - 6 mm
2) d1: Ø 8 - 12 mm

D VHM-Einzahnfräser für Aluminium und Kunststoffe

E Solid carbide 1-flute end mills for aluminum and plastics

I Frese monoelica MDI per alluminio e materie plastiche



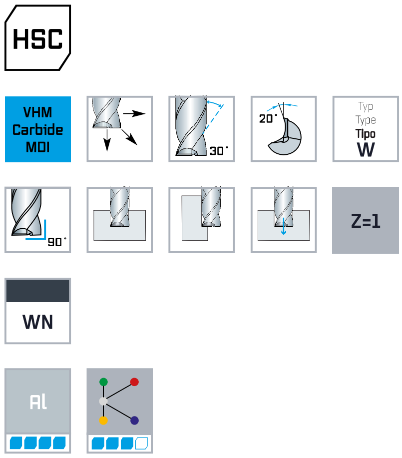


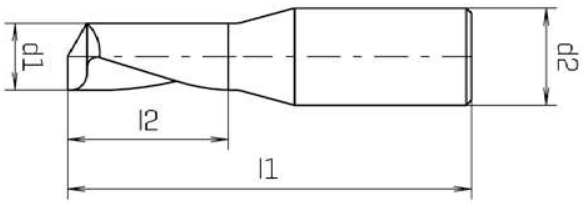
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 6205 Art.-Nr.
2,00	2,00	38	10	1	0620500200100
2,50	2,50	38	12	1	0620500250100
3,00	3,00	38	12	1	0620500300100
4,00	4,00	40	15	1	0620500400100
5,00	5,00	50	16	1	0620500500100
6,00	6,00	50	18	1	0620500610100
6,00	6,00	75	25	1	0620500620100
8,00	8,00	63	22	1	0620500820100
8,00	8,00	80	40	1	0620500840100
10,00	10,00	72	30	1	0620501000100
12,00	12,00	73	30	1	0620501200100

D VHM-Einzahn-Miniatur-Fräser für Aluminium und Kunststoffe

E Solid carbide 1-flute mini end mills for aluminum and plastics

I Frese in miniatura monoelica MDI per alluminio e materie plastiche



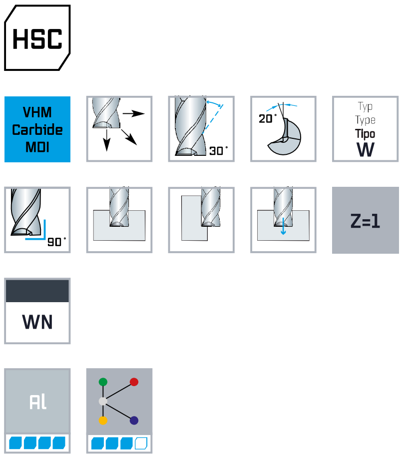


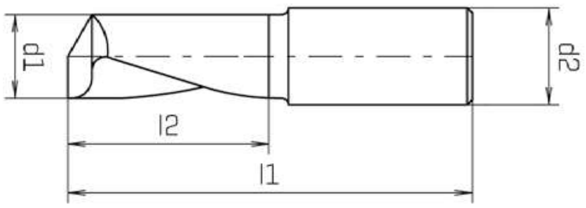
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 6935 Art.-Nr.
1,00	6,00	40	5	1	0693500100100
1,50	6,00	40	7	1	0693500150100
2,00	6,00	40	7	1	0693500200100
2,50	6,00	40	8	1	0693500250100
3,00	6,00	40	8	1	0693500300100
3,50	6,00	40	10	1	0693500350100
4,00	6,00	40	10	1	0693500400100
4,50	6,00	50	12	1	0693500450100
5,00	6,00	50	12	1	0693500500100
5,50	6,00	50	14	1	0693500550100
6,00	6,00	50	14	1	0693500600100

D VHM-Einzahnfräser für Aluminium und Kunststoffe, Rechtsschneidend mit Rechtsdrall

E Solid carbide 1-flute end mills for aluminum and plastics, righthand cutting with righthand spiral

I Frese monoelica MDI per alluminio e materie plastiche, taglio destro elica destra



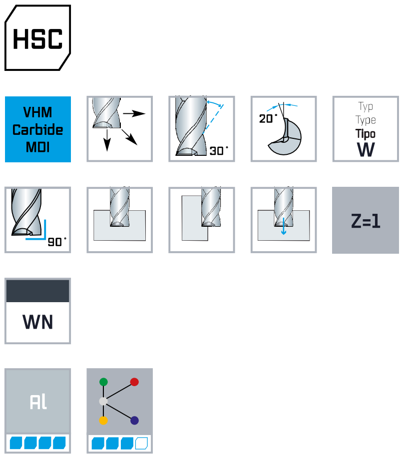


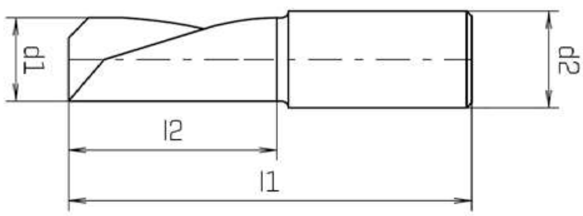
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 6495 Art.-Nr.
2,00	2,00	38	10	1	0649500200100
2,50	2,50	38	12	1	0649500250100
3,00	3,00	38	12	1	0649500300100
4,00	4,00	40	15	1	0649500400100
5,00	5,00	50	16	1	0649500500100
6,00	6,00	50	18	1	0649500600100
6,00	6,00	75	25	1	0649500610100
8,00	8,00	63	22	1	0649500800100
8,00	8,00	80	40	1	0649500810100
10,00	10,00	72	30	1	0649501000100
12,00	12,00	73	30	1	0649501200100

D VHM-Einzahnfräser für Aluminium und Kunststoffe, Rechtsschneidend mit Linksdrall

E Solid carbide 1-flute end mills for aluminum and plastics, righthand cutting withlefthand spiral

I Frese monoelica MDI per alluminio e materie plastiche, taglio destro elica destra



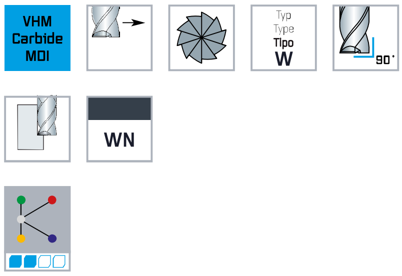


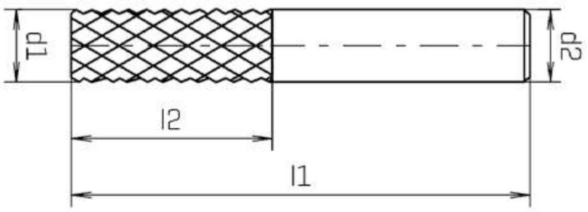
d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 6215 Art.-Nr.
2,00	2,00	38	10	1	0621500200100
2,50	2,50	38	12	1	0621500250100
3,00	3,00	38	12	1	0621500300100
4,00	4,00	40	15	1	0621500400100
5,00	5,00	50	16	1	0621500500100
6,00	6,00	50	18	1	0621500600100
6,00	6,00	75	25	1	0621500610100
8,00	8,00	63	22	1	0621500800100
8,00	8,00	80	40	1	0621500810100
10,00	10,00	72	30	1	0621501000100
12,00	12,00	73	30	1	0621501200100

D VHM-Konturenfräser für Kunststoffe, mit Sitrnverzahnung

E Solid carbide contour end mills for plastics, with front cut

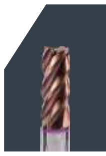
I Frese a contornare MDI per materie plastiche, taglienti frontali





d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	Code 7976 Art.-Nr.
6,00	6,00	50	18	0797600600100
6,00	6,00	57	25	0797600610100
8,00	8,00	63	25	0797600800100
8,00	8,00	80	40	0797600810100
10,00	10,00	72	30	0797601000100
12,00	12,00	73	30	0797601200100
14,00	14,00	75	30	0797601400100

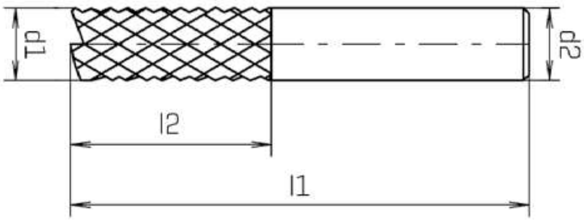
Geeignet zum Besäumen und Umrissfräsen von faserverstärkten Kunststoffen „GFK“ und „CFK“. / Especially suitable for cutting glass-fibre and carbon-fibre-reinforced plastics „GFP“ and „CFP“. / Adatte per fresatura di contornatura fibre di vetro, plastica, gomma dura.



D VHM-Konturenfräser für Kunststoffe, Zweischneider

E Solid carbide contour end mills for plastics, two flutes

I Frese a contornare MDI per materie plastiche, 2 taglienti



d1 h10 mm	d2 h6 mm	l1 mm	l2 mm	Z	Code 7986 Art.-Nr.
2,00	2,00	38	10	2	0798600200100
3,00	3,00	38	12	2	0798600300100
4,00	4,00	40	15	2	0798600400100
5,00	5,00	50	16	2	0798600500100
6,00	6,00	50	18	2	0798600600100
6,00	6,00	57	25	2	0798600610100
8,00	8,00	63	25	2	0798600800100
8,00	8,00	80	40	2	0798600810100
10,00	10,00	72	30	2	0798601000100

Geeignet zum Besäumen und Umrissfräsen von faserverstärkten Kunststoffen „GFK“ und „CFK“. / Especially suitable for cutting glass-fibre and carbon-fibre-reinforced plastics „GFP“ and „CFP“. / Adatte per fresatura di contornatura fibre di vetro, plastica, gomma dura.