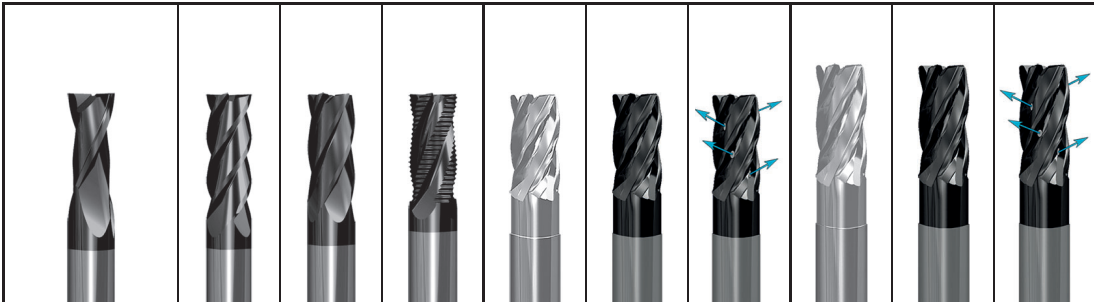
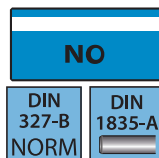


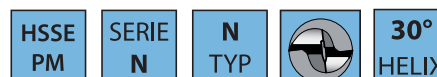
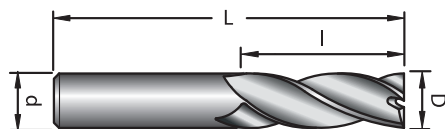
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INHALT INDICE INDEX											
ITEM		B00.IA	AD0B.IA	AA0B.IA	AEOF.IA						
		BDO.IA	ADDB.IA	AADB.IA	AEDF.IA	AFDB.GO	AFDB.GA	AFDB.GA ...RI	AFDC.GO	AFDC.GA	AFDC.GA ...RI
Z		2	4	5	4 - 6	4-5			4-5		
ROHMATERIAL MATERIALE RAW MATERIAL											
BESCHICHTUNG RIVESTIMENTO COATING											
NORM NORMA STANDARD											
SERIEN SERIE SERIE											
TYP TIPO TYPE											
FRONTANSICHT VISTA FRONTALE FRONT VIEW											
HELIX WINKEL ELICA ANGOLO HELIX ANGLE											
ART DER FRÄSBEARBEITUNG TIPO DI FRESATURA TYPE OF MILLING											
OBERFLÄCHENVEREDELUNG FINITURA SUPERFICIALE SURFACE FINISHING											
Ø	2 ÷ 20		4 ÷ 30	6 ÷ 32	6 ÷ 32	16 ÷ 32	16 ÷ 32	16 ÷ 32	16 ÷ 32	16 ÷ 32	16 ÷ 32
	2-2		2-2	2-3	2-3	2-4			2-5		
P1	Stahl / Acciaio / Steel	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1
M3	Rostfreier Stahl / acciaio inossidabile / Stainless steel	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3
K5	Gusseisen / Ghisa / Cast iron	K5	K5	K5	K5	K5	K5	K5	K5	K5	K5
N7	Legierungen / Alloys / Leghe: Al + Mg										
N6	Legierungen / Alloys / Leghe: Cu										
N8	Sintetische Materialien / Materiali sintetici / Sintetic materials										
N9	Graphit / Grafite / Graphite										
S2	Legierungen / Alloys / Leghe: Ti	S2	S2	S2	S2	S2	S2	S2	S2	S2	S2
S4	Legierungen / Alloys / Leghe: Ni	S4	S4	S4	S4	S4	S4	S4	S4	S4	S4
H1	Stahl / Acciaio / Steel: 45 ÷ 50 HRC										
H2	Stahl / Acciaio / Steel: 50 ÷ 70 HRC										

		MATERIALIEN	MATERIALI	MATERIALS	
P1		Stähle	Acciai	Steels	
	101	Baustähle, Kaltfließpressstähle	Acciai da costruzione, Acciai estrusi a freddo	Construction steels, Cold-extrusion steels	≤ 500 N/mm ²
	102	Baustähle, Einsatzstähle, Stahlguss	Acciai da costruzione, Acciai da cementazione, Acciai fusi	Construction steels, Cementation steels, Cast steels	500 ÷ 800 N/mm ²
	103	Einsatzstähle, Vergütungsstähle, Kaltarbeitsstähle	Acciai da cementazione, Acciai da bonifica, Acciai per lavorazione a freddo	Cementation steels, Heat-treatable steels, Cold works steels	800 ÷ 1.000 N/mm ²
	104	Vergütungsstähle, Kaltarbeitsstähle, Nitrierstähle	Acciai da bonifica, Acciai per lavorazione a freddo, Acciai da nitrurazione	Heat-treatable steels, Cold works steels, Nitriding steels	1.000 ÷ 1.200 N/mm ²
	105	Warmarbeitsstähle, Kaltarbeitsstähle, Hochlegierte Stähle	Acciai per lavorazione a caldo, Acciai per lavorazione a freddo, Acciai ad alta lega	Hot works steels, Cold works steels, High-alloyed steels	1.200 ÷ 1.400 N/mm ²
M3		Rost- und säurebeständige Stähle	Acciai inossidabili	Stainless steels	
	301	Edelstähle, Ferritisch-martensitisch, Austenitisch	Acciai inossidabili, Ferritico-Martensitico, Austenitico	Ferritic-Martensitic, Austenitic stainless steels	≤ 600 N/mm ²
	302	Edelstähle, Ferritisch-martensitisch, Austenitisch	Acciai inossidabili, Ferritico-Martensitico, Austenitico	Ferritic-Martensitic, Austenitic stainless steels	600 ÷ 800 N/mm ²
	303	Edelstähle, Ferritisch-martensitisch, Austenitisch (Cr-Ni)	Acciai inossidabili, Ferritico-Martensitico, Austenitico (Cr-Ni)	Ferritic-Martensitic, Austenitic stainless steels, Nickel alloys (Cr-Ni)	800 ÷ 1.000 N/mm ²
	304	Edelstähle, Ferritisch-martensitisch, Austenitisch (Cr-Ni)	Acciai inossidabili, Ferritico-Martensitico, Austenitico (Cr-Ni)	Ferritic-Martensitic, Austenitic stainless steels, Nickel alloys (Cr-Ni)	1.000 ÷ 1.200 N/mm ²
	305	Nickel-Legierungen (Cr-Ni)	Leghe di nichel (Cr-Ni)	Nickel alloys (Cr-Ni)	1.200 ÷ 1.400 N/mm ²
K5		Gusseisen	Ghisa	Cast iron	
	501	Gusseisen mit Lamellengrafit	Ghisa grigia	Cast iron with lamellar graphite	< 150 HB
	502	Gusseisen mit Lamellengrafit	Ghisa grigia	Cast iron with lamellar graphite	150 ÷ 220 HB
	503	Gusseisen mit Lamellengrafit	Ghisa grigia	Cast iron with lamellar graphite	220 ÷ 320 HB
	504	Gusseisen mit Kugelgrafit	Ghisa a grafite nodulare	Cast iron with nodular graphite	< 150 HB
	505	Gusseisen mit Kugelgrafit	Ghisa a grafite nodulare	Cast iron with nodular graphite	150 ÷ 220 HB
N7		Nickel-Legierungen (Cr-Ni)	Leghe di nichel (Cr-Ni)	Nickel alloys (Cr-Ni)	1.200 ÷ 1.400 N/mm ²
	506	Gusseisen mit Kugelgrafit	Ghisa a grafite nodulare	Cast iron with nodular graphite	220 ÷ 320 HB
	507	Hartguss	Ghisa in conchiglia	Hard cast iron	330 ÷ 400 HB
		Nichteisenwerkstoffe	Materiali non ferrosi	Non ferrous materials	
		Alu- und Mg-Legierungen	Leghe di Alu e Mg	Alu and Mg alloys	
	701	Aluminium und Magnesium	Alluminio e Magnesio	Aluminium and Magnesium	100 ÷ 350 N/mm ²
N6		Kupfer-Legierungen	Leghe di rame	Copper alloys	
	601	Kupfer	Rame	Copper	< 300 N/mm ²
	602	Bronze, Messing	Bronzo, Ottone	Bronze, Brass	< 600 N/mm ²
	603	Kupfer-Legierungen - (Ni-Al)	Leghe di rame - (Ni-Al)	Copper alloys - (Ni-Al)	< 500 N/mm ²
	604	Kupfer-Legierungen - (Ni-Al)	Leghe di rame - (Ni-Al)	Copper alloys - (Ni-Al)	> 500 N/mm ²
	605	Sonder-Legierungen	Leghe speciali	Special alloys	< 120 HB
N8		Kunststoffe	Materiali sintetici	Synthetic materials	
	801	Thermoplaste	Resine termoplastiche	Thermoplastics	50 N/mm ²
	802	Duroplaste	Materie plastiche termoindurente	Duroplastics	80 ÷ 100 N/mm ²
	803	Faserverstärkte Kunststoffe	Resine epossidiche	Fibre-reinforced synthetics - GFK,CFK,AFK	800 ÷ 1000 N/mm ²
	804	Faserverstärkte Kunststoffe	Resine epossidiche	Fibre-reinforced synthetics - GFK,CFK,AFK	1000 ÷ 1500 N/mm ²
		Graphit	Grafite	Graphite	
N9	901	Graphit	Grafite	Graphite	< 400 HB
	902	Graphit	Grafite	Graphite	> 400 HB
		Besondere Werkstoffe	Materiali speciali	Special materials	
S2		Titan-Legierungen	Leghe di titanio	Titanium alloys	
	201	Titan-Legierungen	Leghe di titanio	Titanium alloys	< 900 N/mm ²
	202	Titan-Legierungen	Leghe di titanio	Titanium alloys	900 ÷ 1300 N/mm ²
	203	Reintitan	Titanio puro	Pure titanium	
S4		Ni-Co-Legierungen	Leghe di Ni, Co	Ni, Co alloys	
	401	Nickel/Kobalt-Basis-Legierungen	Leghe di nichel/cobalto	Nickel and cobalt base alloys	< 900 N/mm ²
	402	Nickel/Kobalt-Basis-Legierungen	Leghe di nichel/cobalto	Nickel and cobalt base alloys	900 ÷ 1250 N/mm ²
	403	Nickel/Kobalt-Basis-Legierungen	Leghe di nichel/cobalto	Nickel and cobalt base alloys	> 1250 N/mm ²
		Harte Werkstoffe	Materiali duri	Hard materials	
H1	206	Gehärtete Stähle	Acciai temprati	Hardened steels - Hard casting	45 ÷ 50 HRC
	207	Gehärtete Stähle	Acciai temprati	Hardened steels - Hard casting	50 ÷ 55 HRC
H2	208	Gehärtete Stähle	Acciai temprati	Hardened steels - Hard casting	55 ÷ 60 HRC
	209	Gehärtete Stähle	Acciai temprati	Hardened steels - Hard casting	60 ÷ 65 HRC
	210	Gehärtete Stähle	Acciai temprati	Hardened steels - Hard casting	65 ÷ 70 HRC

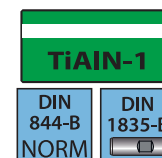
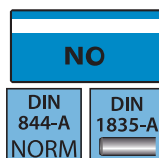


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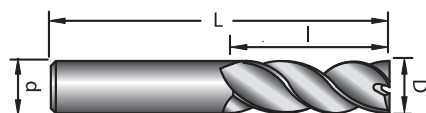


BOO.IA.	BDO.IA.	D e8	d h6	l	L	Z
00200	00200	2	6	4	48	2
00250	00250	2,5	6	5	49	2
00300	00300	3	6	5	49	2
00350	00350	3,5	6	6	50	2
00400	00400	4	6	7	51	2
00450	00450	4,5	6	7	51	2
00500	00500	5	6	8	52	2
00550	00550	5,5	6	8	52	2
00600	00600	6	6	8	52	2
00650	00650	6,5	10	10	60	2
00700	00700	7	10	10	60	2

BOO.IA.	BDO.IA.	D e8	d h6	l	L	Z
00750	00750	7,5	10	10	60	2
00800	00800	8	10	11	61	2
00850	00850	8,5	10	11	61	2
00900	00900	9	10	11	61	2
01000	01000	10	10	13	63	2
01200	01200	12	12	16	73	2
01400	01400	14	12	16	73	2
01500	01500	15	12	16	73	2
01600	01600	16	16	19	79	2
01800	01800	18	16	19	79	2
02000.20	02000.20	20	20	22	88	2

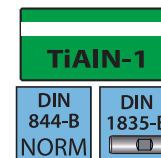
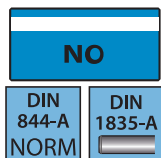


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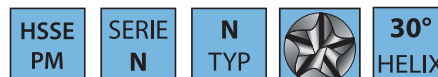
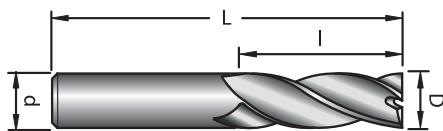


ADOB.IA.	ADDB.IA.	D k10	d h6	l	L	Z
00400	00400	4	6	11	55	4
00500	00500	5	6	13	57	4
00600	00600	6	6	13	57	4
00700	00700	7	10	16	66	4
00800	00800	8	10	19	69	4
00900	00900	9	10	19	69	4
01000	01000	10	10	22	72	4
01100	01100	11	12	22	79	4
01200	01200	12	12	26	83	4
01300	01300	13	12	26	83	4

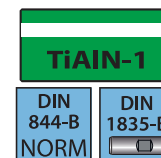
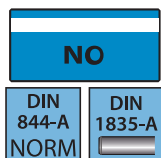
ADOB.IA.	ADDB.IA.	D k10	d h6	l	L	Z
01400	01400	14	12	26	83	4
01500	01500	15	12	26	83	4
01600	01600	16	16	32	92	4
01800	01800	18	16	32	92	4
02000.20	02000.20	20	20	38	104	4
02200.20	02200.20	22	20	38	104	4
02500	02500	25	25	45	121	4
02800	02800	28	25	45	121	4
03000	03000	30	25	45	121	4



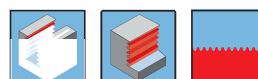
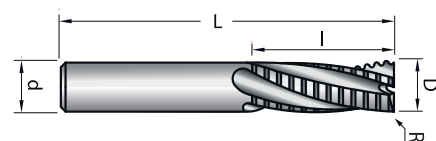
HPC



AAOB.IA.	AADB.IA.	D k10	d h6	l	L	Z
00600	00600	6	6	13	57	5
00800	00800	8	10	19	69	5
01000	01000	10	10	22	72	5
01200	01200	12	12	26	83	5
01600	01600	16	16	32	92	5
02000.20	02000.20	20	20	38	104	5
02500	02500	25	25	45	121	5
03200	03200	32	32	53	133	5

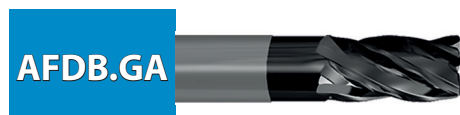
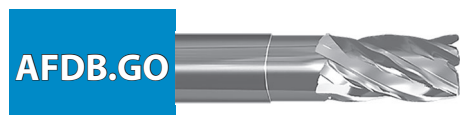


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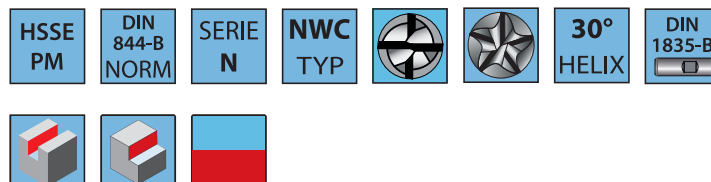
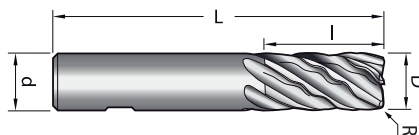


AEOF.IA.	AEDF.IA.	D k12	d h6	l	L	Z	R ±0,02
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00700	00700	7	10	16	66	4	
00800	00800	8	10	19	69	4	
00900	00900	9	10	19	69	4	
01000	01000	10	10	22	72	4	
01100	01100	11	12	22	79	4	
01200	01200	12	12	26	83	4	
	012000025	12	12	26	83	4	2,5
	012000040	12	12	26	83	4	4
01300	01300	13	12	26	83	4	
01400	01400	14	12	26	83	4	
01500	01500	15	12	26	83	4	
01600	01600	16	16	32	92	4	
	016000025	16	16	32	92	4	2,5

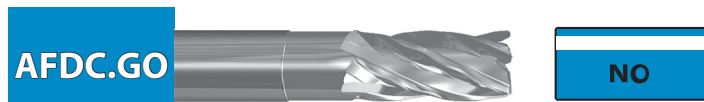
AEOF.IA.	AEDF.IA.	D k12	d h6	l	L	Z	R ±0,02
	016000040	16	16	32	92	4	4
01800	01800	18	16	32	92	4	
0200020	0200020	20	20	38	104	4	
	020002025	20	20	38	104	4	2,5
	020002040	20	20	38	104	4	4
	020002060	20	20	38	104	4	6
0220020	0220020	22	20	38	104	4	
02500	02500	25	25	45	121	4	
	025000025	25	25	45	121	4	2,5
	025000040	25	25	45	121	4	4
	025000060	25	25	45	121	4	6
02800	02800	28	25	45	121	4	
03000	03000	32	32	53	133	6	



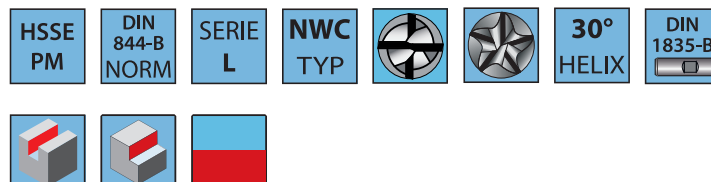
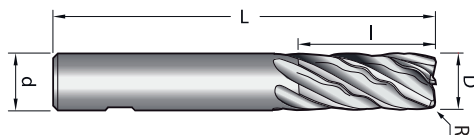
HPC



AFDB.GO.	AFDB.GA.	AFDB.GA. ...RI	D	d	l	L	Z	R
			k10	h6				± 0,05
01600.0010	01600.0010	01600.RI10	16	16	32	92	4	1
01600.0025	01600.0025	01600.RI25	16	16	32	92	4	2,5
01600.0040	01600.0040	01600.RI40	16	16	32	92	4	4
02000.0010	02000.0010	02000.RI10	20	20	38	104	4	1
02000.0025	02000.0025	02000.RI25	20	20	38	104	4	2,5
02000.0040	02000.0040	02000.RI40	20	20	38	104	4	4
02500.0010	02500.0010	02500.RI10	25	25	45	121	5	1
02500.0025	02500.0025	02500.RI25	25	25	45	121	5	2,5
02500.0040	02500.0040	02500.RI40	25	25	45	121	5	4
03200.0010	03200.0010	03200.RI10	32	32	53	133	5	1
03200.0025	03200.0025	03200.RI25	32	32	53	133	5	2,5
03200.0040	03200.0040	03200.RI40	32	32	53	133	5	4



HPC



AFDC.GO.	AFDC.GA.	AFDC.GA. ...RI	D	d	l	L	Z	R
			k10	h6				± 0,05
01600.0010	01600.0010	01600.RI10	16	16	63	123	4	1
01600.0025	01600.0025	01600.RI25	16	16	63	123	4	2,5
01600.0040	01600.0040	01600.RI40	16	16	63	123	4	4
02000.0010	02000.0010	02000.RI10	20	20	75	141	4	1
02000.0025	02000.0025	02000.RI25	20	20	75	141	4	2,5
02000.0040	02000.0040	02000.RI40	20	20	75	141	4	4
02500.0010	02500.0010	02500.RI10	25	25	90	166	5	1
02500.0025	02500.0025	02500.RI25	25	25	90	166	5	2,5
02500.0040	02500.0040	02500.RI40	25	25	90	166	5	4
03200.0010	03200.0010	03200.RI10	32	32	106	186	5	1
03200.0025	03200.0025	03200.RI25	32	32	106	186	5	2,5
03200.0040	03200.0040	03200.RI40	32	32	106	186	5	4

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ITEM		NO	B00.H0	BOA.H0	BOD.H0	COA.H0	IOA.H0	IOB.H0	IOC.H0	COB.H0	COC.H0	DOB.H0	DOC.H0
		TiAIN-1	B00.HA	BOA.HA	BDD.HA					COB.HA	COC.HA	DOB.HA	DOC.HA
		NO	BDO.H0	BDA.H0	BOD.H0	CDA.H0				CDB.H0	CDC.H0	DDB.H0	DDC.H0
		TiAIN-1	BDO.HA	BDA.HA	BDD.HA		IDA.HA	IDB.HA	IDC.HA	CDB.HA	CDC.HA	DDB.HA	DDC.HA
Z			2	2	2	2	2	2	2	3	3	3	3
ROHATERIAL MATERIALE RAW MATERIAL				HSSE Co 8		HSSE Co 8		HSSE Co 8			HSSE Co 8		HSSE Co 8
NORM NORMA STANDARD													
SERIEN SERIE SERIE			SERIE S	SERIE N	SERIE L	SERIE L	SERIE S	SERIE N	SERIE L	SERIE S	SERIE N	SERIE N	SERIE L
TYP TIPO TYPE			N TYP			W TYP		N TYP		N TYP			W TYP
FRONTANSICHT VISTA FRONTALE FRONT VIEW													
HELIX WINKEL ELICA ANGOLO HELIX ANGLE			30° HELIX			40° HELIX		30° HELIX		30° HELIX			45° HELIX
ART DER FRÄSBEARBEITUNG TIPO DI FRESATURA TYPE OF MILLING													
OBERFLÄCHENVEREDELUNG FINITURA SUPERFICIALE SURFACE FINISHING													
Ø			2 ÷ 40	2 ÷ 30	2 ÷ 30	6 ÷ 25	3 ÷ 30	3 ÷ 30	3 ÷ 25	2 ÷ 30	2 ÷ 30	4 ÷ 30	4 ÷ 20
			2-8	2-9	2-10	2-11	2-11	2-12	2-12	2-13	2-14	2-15	2-16

ABOB.HO	ABOC.HO				BOF.HO	ABOF.HO	ABOG.HO	
ABOB.HA					BDF.HO	ABOF.HA	ABOG.HA	AEOF.HA
ABDB.HO					BOF.HA	ABDF.HO	ABDG.HO	
ABDB.HA	ABDC.HA	ADDB.HA	ADDC.HA	ABDH.HA	BDF.HA	ABDF.HA	ABDG.HA	AEDF.HA
4 - 6		4		4	4 - 6			
HSSE Co 8		HSSE Co 8		HSSE Co 8	HSSE Co 8			
DIN 844-A NORM DIN 844-B NORM		DIN 844-B NORM		DIN 844-B NORM	DIN 844-A NORM DIN 844-B NORM			
SERIE N	SERIE L	SERIE N	SERIE L	SERIE N	SERIE N		SERIE L	SERIE N
N TYP		NK TYP		NF TYP	NR TYP	NRF TYP	NRF TYP	NRFF TYP
30° HELIX		45° HELIX		30° HELIX	30° HELIX			
2 ÷ 40	3 ÷ 32	4 ÷ 30	4 ÷ 20	6 ÷ 25	6 ÷ 40	6 ÷ 40	6 ÷ 32	5 ÷ 32
2-17	2-16	2-18	2-18	2-19	2-19	2-20	2-21	2-21

BOO.HO



NO

DIN 327-B NORM	DIN 1835-A
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BOO.HA



TiAIN-1

DIN 327-B NORM	DIN 1835-A
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BDO.HO



NO

DIN 327-D NORM	DIN 1835-B
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BDO.HA



TiAIN-1

DIN 327-D NORM	DIN 1835-B
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P1

M3

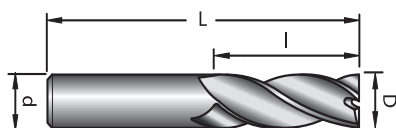
K5

N6

S2

S4

MC



HSSE
Co 8

SERIE
S

N
TYP



30°
HELIX



BOO.HO.	BDO.HO.	D e8	d h6	l	L	Z
00200	00200	2	6	4	48	2
00250	00250	2,5	6	5	49	2
00300	00300	3	6	5	49	2
00350	00350	3,5	6	6	50	2
00400	00400	4	6	7	51	2
00450	00450	4,5	6	7	51	2
00500	00500	5	6	8	52	2
00550	00550	5,5	6	8	52	2
00600	00600	6	6	8	52	2
00650	00650	6,5	10	10	60	2
00700	00700	7	10	10	60	2
00750	00750	7,5	10	10	60	2
00800	00800	8	10	11	61	2
00850	00850	8,5	10	11	61	2
00900	00900	9	10	11	61	2
00950	00950	9,5	10	11	61	2
01000	01000	10	10	13	63	2
01050	01050	10,5	12	13	70	2
01100	01100	11	12	13	70	2
01200	01200	12	12	16	73	2
01300	01300	13	12	16	73	2
01400	01400	14	12	16	73	2
01500	01500	15	12	16	73	2
01600	01600	16	16	19	79	2
01700	01700	17	16	19	79	2
01800	01800	18	16	19	79	2
01900	01900	19	16	19	79	2
02000.20	02000.20	20	20	22	88	2
02200.20	02200.20	22	20	22	88	2
02400	02400	24	25	26	102	2
02500	02500	25	25	26	102	2
02600	02600	26	25	26	102	2
02800	02800	28	25	26	102	2
03000	03000	30	25	26	102	2
03200	03200	32	32	32	112	2
03600	03600	36	32	32	112	2
04000	04000	40	32	38	118	2

BOO.HA.	BDO.HA.	D e8	d h6	l	L	Z
00200	00200	2	6	4	48	2
00250	00250	2,5	6	5	49	2
00300	00300	3	6	5	49	2
00350	00350	3,5	6	6	50	2
00400	00400	4	6	7	51	2
00450	00450	4,5	6	7	51	2
00500	00500	5	6	8	52	2
00550	00550	5,5	6	8	52	2
00600	00600	6	6	8	52	2
00650	00650	6,5	10	10	60	2
00700	00700	7	10	10	60	2
00750	00750	7,5	10	10	60	2
00800	00800	8	10	11	61	2
00850	00850	8,5	10	11	61	2
00900	00900	9	10	11	61	2
00950	00950	9,5	10	11	61	2
01000	01000	10	10	13	63	2
01050	01050	10,5	12	13	70	2
01100	01100	11	12	13	70	2
01200	01200	12	12	16	73	2
01300	01300	13	12	16	73	2
01400	01400	14	12	16	73	2
01500	01500	15	12	16	73	2
01600	01600	16	16	19	79	2
01700	01700	17	16	19	79	2
01800	01800	18	16	19	79	2
01900	01900	19	16	19	79	2
02000.20	02000.20	20	20	22	88	2
02200.20	02200.20	22	20	22	88	2
02400	02400	24	25	26	102	2
02500	02500	25	25	26	102	2
02600	02600	26	25	26	102	2
02800	02800	28	25	26	102	2
03000	03000	30	25	26	102	2
03200	03200	32	32	32	112	2
03600	03600	36	32	32	112	2
04000	04000	40	32	38	118	2

BOA.HO



NO



BOA.HA



TiAIN-1



BDA.HO



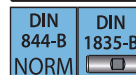
NO



BDA.HA



TiAIN-1



P1

M3

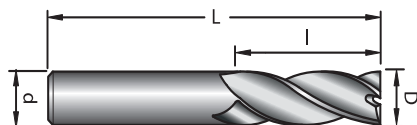
K5

N6

S2

S4

MC



HSSE
Co 8

SERIE
N

N
TYP



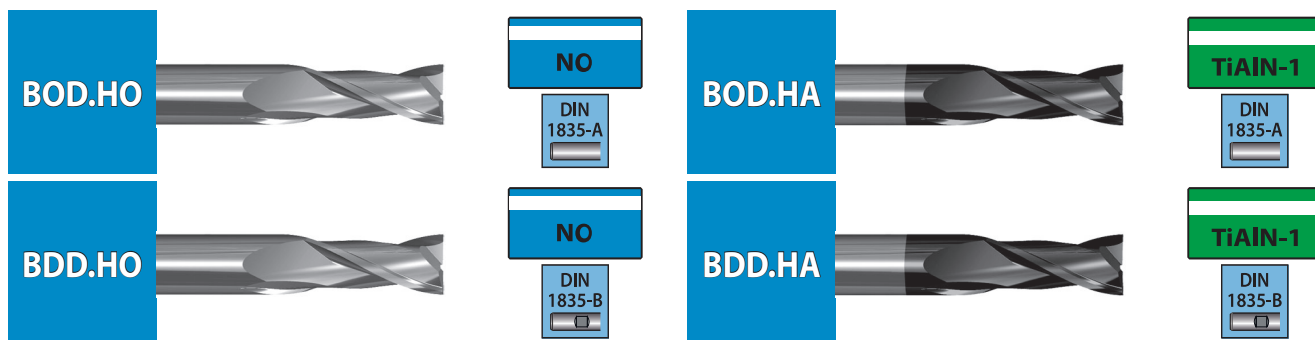
30°
HELIX



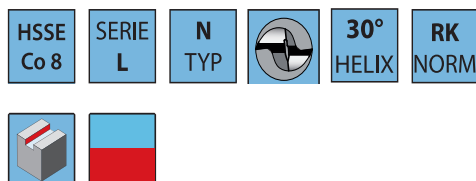
BOA.HO.	BDA.HO.	D e8	d h6	l	L	Z
00200	00200	2	6	7	51	2
00250	00250	2,5	6	8	52	2
00300	00300	3	6	8	52	2
00350	00350	3,5	6	10	54	2
00400	00400	4	6	11	55	2
00450	00450	4,5	6	11	55	2
00500	00500	5	6	13	57	2
00550	00550	5,5	6	13	57	2
00600	00600	6	6	13	57	2
00650	00650	6,5	10	16	66	2
00700	00700	7	10	16	66	2
00750	00750	7,5	10	16	66	2
00800	00800	8	10	19	69	2
00850	00850	8,5	10	19	69	2
00900	00900	9	10	19	69	2
00950	00950	9,5	10	19	69	2
01000	01000	10	10	22	72	2
01050	01050	10,5	12	22	79	2
01100	01100	11	12	22	79	2
01200	01200	12	12	26	83	2
01300	01300	13	12	26	83	2
01400	01400	14	12	26	83	2
01500	01500	15	12	26	83	2
01600	01600	16	16	32	92	2
01700	01700	17	16	32	92	2
01800	01800	18	16	32	92	2
01900	01900	19	16	32	92	2
02000.20	02000.20	20	20	38	104	2
02200.20	02200.20	22	20	38	104	2
02400	02400	24	25	45	121	2
02500	02500	25	25	45	121	2
02600	02600	26	25	45	121	2
02800	02800	28	25	45	121	2
03000	03000	30	25	45	121	2

BOA.HA.	BDA.HA.	D e8	d h6	l	L	Z
00200	00200	2	6	7	51	2
00250	00250	2,5	6	8	52	2
00300	00300	3	6	8	52	2
00350	00350	3,5	6	10	54	2
00400	00400	4	6	11	55	2
00450	00450	4,5	6	11	55	2
00500	00500	5	6	13	57	2
00550	00550	5,5	6	13	57	2
00600	00600	6	6	13	57	2
00650	00650	6,5	10	16	66	2
00700	00700	7	10	16	66	2
00750	00750	7,5	10	16	66	2
00800	00800	8	10	19	69	2
00850	00850	8,5	10	19	69	2
00900	00900	9	10	19	69	2
00950	00950	9,5	10	19	69	2
01000	01000	10	10	22	72	2
01050	01050	10,5	12	22	79	2
01100	01100	11	12	22	79	2
01200	01200	12	12	26	83	2
01300	01300	13	12	26	83	2
01400	01400	14	12	26	83	2
01500	01500	15	12	26	83	2
01600	01600	16	16	32	92	2
01700	01700	17	16	32	92	2
01800	01800	18	16	32	92	2
01900	01900	19	16	32	92	2
02000.20	02000.20	20	20	38	104	2
02200.20	02200.20	22	20	38	104	2
02400	02400	24	25	45	121	2
02500	02500	25	25	45	121	2
02600	02600	26	25	45	121	2
02800	02800	28	25	45	121	2
03000	03000	30	25	45	121	2

HSSE

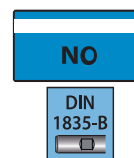
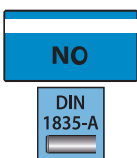


MC



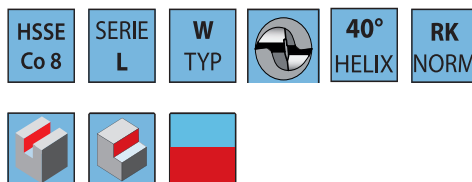
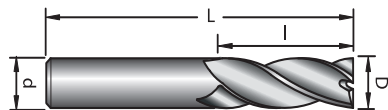
BOD.HO.	BDD.HO.	D e8	d h6	l	L	Z
00200	00200	2	6	7	54	2
00250	00250	2,5	6	8	56	2
00300	00300	3	6	8	56	2
00350	00350	3,5	6	10	59	2
00400	00400	4	6	11	63	2
00450	00450	4,5	6	11	63	2
00500	00500	5	6	13	68	2
00550	00550	5,5	6	13	68	2
00600	00600	6	6	13	68	2
00650	00650	6,5	10	16	80	2
00700	00700	7	10	16	80	2
00750	00750	7,5	10	16	80	2
00800	00800	8	10	19	88	2
00850	00850	8,5	10	19	88	2
00900	00900	9	10	19	88	2
00950	00950	9,5	10	19	88	2
01000	01000	10	10	22	95	2
01050	01050	10,5	12	22	102	2
01100	01100	11	12	22	102	2
01200	01200	12	12	26	110	2
01300	01300	13	12	26	110	2
01400	01400	14	12	26	110	2
01500	01500	15	12	26	110	2
01600	01600	16	16	32	123	2
01700	01700	17	16	32	123	2
01800	01800	18	16	32	123	2
02000.20	02000.20	20	20	38	141	2
02500	02500	25	25	45	166	2
03000	03000	30	25	45	166	2

BOD.HA.	BDD.HA.	D e8	d h6	l	L	Z
00200	00200	2	6	7	54	2
00250	00250	2,5	6	8	56	2
00300	00300	3	6	8	56	2
00350	00350	3,5	6	10	59	2
00400	00400	4	6	11	63	2
00450	00450	4,5	6	11	63	2
00500	00500	5	6	13	68	2
00550	00550	5,5	6	13	68	2
00600	00600	6	6	13	68	2
00650	00650	6,5	10	16	80	2
00700	00700	7	10	16	80	2
00750	00750	7,5	10	16	80	2
00800	00800	8	10	19	88	2
00850	00850	8,5	10	19	88	2
00900	00900	9	10	19	88	2
00950	00950	9,5	10	19	88	2
01000	01000	10	10	22	95	2
01050	01050	10,5	12	22	102	2
01100	01100	11	12	22	102	2
01200	01200	12	12	26	110	2
01300	01300	13	12	26	110	2
01400	01400	14	12	26	110	2
01500	01500	15	12	26	110	2
01600	01600	16	16	32	123	2
01700	01700	17	16	32	123	2
01800	01800	18	16	32	123	2
02000.20	02000.20	20	20	38	141	2
02500	02500	25	25	45	166	2
03000	03000	30	25	45	166	2



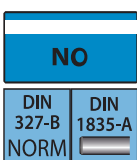
N7 N8

MC



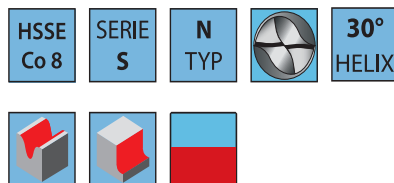
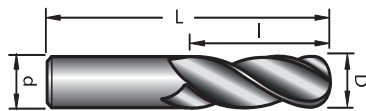
COA.HO.	CDA.HO.	D k10	d h6	l	L	Z
00600	00600	6	6	24	68	2
00800	00800	8	10	38	88	2
01000	01000	10	10	45	95	2
01200	01200	12	12	53	110	2
01400	01400	14	12	53	110	2

COA.HO.	CDA.HO.	D k10	d h6	l	L	Z
01600	01600	16	16	63	123	2
01800	01800	18	16	63	123	2
02000.20	02000.20	20	20	75	141	2
02200.20	02200.20	22	20	75	141	2
02500	02500	25	25	90	166	2



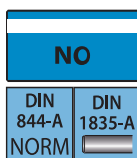
P1 M3 K5 N7 N6 N8 S2 S4

MC

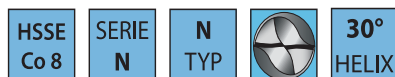
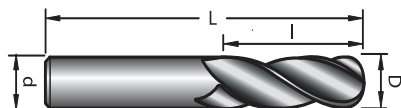


IOA.HO.	IDA.HA.	D e8	d h6	l	L	Z	R ±0,02
00300	00300	3	6	5	49	2	1,5
00400	00400	4	6	7	51	2	2
00500	00500	5	6	8	52	2	2,5
00600	00600	6	6	8	52	2	3
00700	00700	7	10	10	60	2	3,5
00800	00800	8	10	11	61	2	4
00900	00900	9	10	11	61	2	4,5
01000	01000	10	10	13	63	2	5
01100	01100	11	12	13	70	2	5,5
01200	01200	12	12	16	73	2	6

IOA.HO.	IDA.HA.	D e8	d h6	l	L	Z	R ±0,02
01300	01300	13	12	16	73	2	6,5
01400	01400	14	12	16	73	2	7
01500	01500	15	12	16	73	2	7,5
01600	01600	16	16	19	79	2	8
01800	01800	18	16	19	79	2	9
02000.20	02000.20	20	20	22	88	2	10
02200.20	02200.20	22	20	22	88	2	11
02400	02400	24	25	26	102	2	12
02500	02500	25	25	26	102	2	12,5
03000	03000	30	25	26	102	2	15

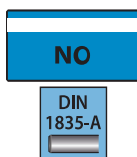


MC

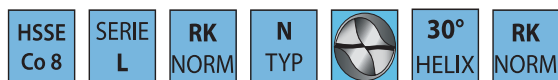
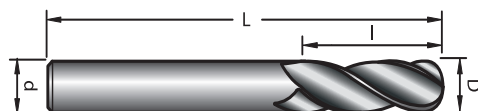


IOB.HO.	IDB.HA.	D e8	d h6	l	L	Z	R ±0,02
00300	00300	3	6	8	52	2	1,5
00400	00400	4	6	11	55	2	2
00500	00500	5	6	13	57	2	2,5
00600	00600	6	6	13	57	2	3
00700	00700	7	10	16	66	2	3,5
00800	00800	8	10	19	69	2	4
00900	00900	9	10	19	69	2	4,5
01000	01000	10	10	22	72	2	5
01100	01100	11	12	22	79	2	5,5

IOB.HO.	IDB.HA.	D e8	d h6	l	L	Z	R ±0,02
01200	01200	12	12	26	83	2	6
01400	01400	14	12	26	83	2	7
01600	01600	16	16	32	92	2	8
01800	01800	18	16	32	92	2	9
02000.20	02000.20	20	20	38	104	2	10
02200.20	02200.20	22	20	38	104	2	11
02500	02500	25	25	45	121	2	12,5
03000	03000	30	25	45	121	2	15

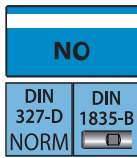
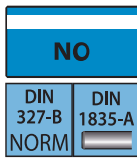


MC

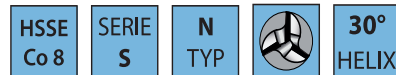
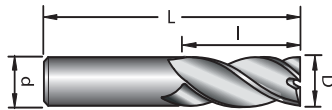


IOC.HO.	IDC.HA.	D e8	d h6	l	L	Z	R ±0,02
00300	00300	3	6	8	56	2	1,5
00400	00400	4	6	11	63	2	2
00500	00500	5	6	13	68	2	2,5
00600	00600	6	6	13	68	2	3
00700	00700	7	10	16	80	2	3,5
00800	00800	8	10	19	88	2	4
00900	00900	9	10	19	88	2	4,5
01000	01000	10	10	22	95	2	5

IOC.HO.	IDC.HA.	D e8	d h6	l	L	Z	R ±0,02
01200	01200	12	12	26	110	2	6
01400	01400	14	12	26	110	2	7
01600	01600	16	16	32	123	2	8
01800	01800	18	16	32	123	2	9
02000.20	02000.20	20	20	38	141	2	10
02200.20	02200.20	22	20	38	141	2	11
02500	02500	25	25	45	166	2	12,5

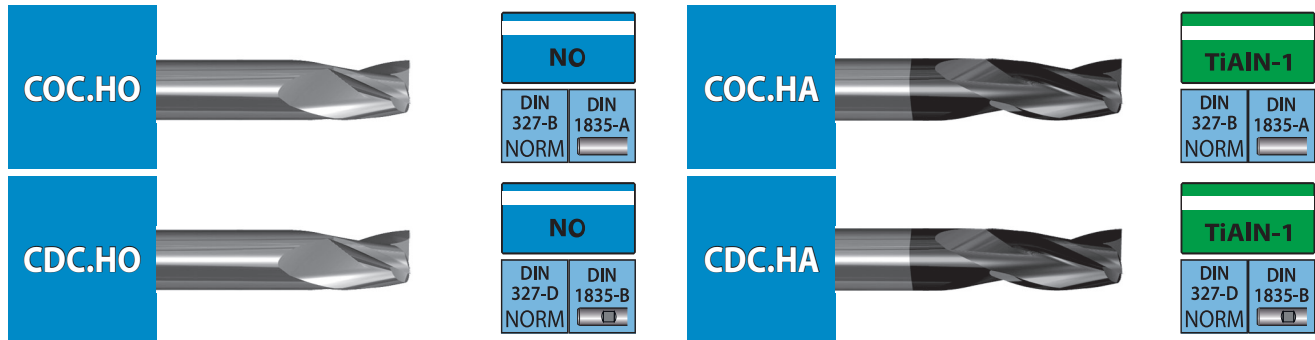


MC

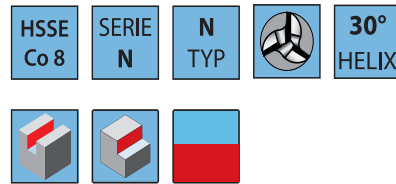
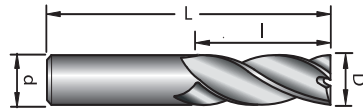


COB.HO	CDB.HO	COB.HA	CDB.HA	D	d	l	L	Z
				e8	h6			
00200	00200	00200	00200	2	6	4	48	3
00250	00250	00250	00250	2,5	6	5	49	3
00300	00300	00300	00300	3	6	5	49	3
00350	00350	00350	00350	3,5	6	6	50	3
00400	00400	00400	00400	4	6	7	51	3
00450	00450	00450	00450	4,5	6	7	51	3
00500	00500	00500	00500	5	6	8	52	3
00550	00550	00550	00550	5,5	6	8	52	3
00600	00600	00600	00600	6	6	8	52	3
00650	00650	00650	00650	6,5	10	10	60	3
00700	00700	00700	00700	7	10	10	60	3
00750	00750	00750	00750	7,5	10	10	60	3
00800	00800	00800	00800	8	10	11	61	3
00850	00850	00850	00850	8,5	10	11	61	3
00900	00900	00900	00900	9	10	11	61	3
00950	00950	00950	00950	9,5	10	11	61	3

COB.HO	CDB.HO	COB.HA	CDB.HA	D	d	l	L	Z
				e8	h6			
01000	01000	01000	01000	10	10	13	63	3
01050	01050	01050	01050	10,5	12	13	70	3
01100	01100	01100	01100	11	12	13	70	3
01200	01200	01200	01200	12	12	16	73	3
01300	01300	01300	01300	13	12	16	73	3
01400	01400	01400	01400	14	12	16	73	3
01500	01500	01500	01500	15	12	16	73	3
01600	01600	01600	01600	16	16	19	79	3
01800	01800	01800	01800	18	16	19	79	3
02000.20	02000.20	02000.20	02000.20	20	20	22	88	3
02200.20	02200.20	02200.20	02200.20	22	20	22	88	3
02400	02400	02400	02400	24	25	26	102	3
02500	02500	02500	02500	25	25	26	102	3
02600	02600	02600	02600	26	25	26	102	3
02800	02800	02800	02800	28	25	26	102	3
03000	03000	03000	03000	30	25	26	102	3



MC



COB.HO	CDB.HO	COB.HA	CDB.HA	D	d	L	l	Z	COB.HO	CDB.HO	COB.HA	CDB.HA	D	d	L	l	Z
				e8	h6								e8	h6			
00200	00200	00200	00200	2	6	7	51	3	00950	00950	00950	00950	9,5	10	19	69	3
00250	00250	00250	00250	2,5	6	8	52	3	01000	01000	01000	01000	10	10	22	72	3
00300	00300	00300	00300	3	6	8	52	3	01050	01050	01050	01050	10,5	12	22	79	3
00350	00350	00350	00350	3,5	6	10	54	3	01100	01100	01100	01100	11	12	22	79	3
00400	00400	00400	00400	4	6	11	55	3	01200	01200	01200	01200	12	12	26	83	3
00450	00450	00450	00450	4,5	6	11	55	3	01300	01300	01300	01300	13	12	26	83	3
00500	00500	00500	00500	5	6	13	57	3	01400	01400	01400	01400	14	12	26	83	3
00550	00550	00550	00550	5,5	6	13	57	3	01500	01500	01500	01500	15	12	26	83	3
00600	00600	00600	00600	6	6	13	57	3	01600	01600	01600	01600	16	16	32	92	3
00650	00650	00650	00650	6,5	10	16	66	3	01800	01800	01800	01800	18	16	32	92	3
00700	00700	00700	00700	7	10	16	66	3	02000.20	02000.20	02000.20	02000.20	20	20	38	104	3
00750	00750	00750	00750	7,5	10	16	66	3	02200.20	02200.20	02200.20	02200.20	22	20	38	104	3
00800	00800	00800	00800	8	10	19	69	3	02500	02500	02500	02500	25	25	45	121	3
00850	00850	00850	00850	8,5	10	19	69	3	03000	03000	03000	03000	30	25	45	121	3
00900	00900	00900	00900	9	10	19	69	3									

DOB.HO



NO

DIN 844-A NORM	DIN 1835-A
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DOB.HA



TiAIN-1

DIN 844-A NORM	DIN 1835-A
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DDB.HO



NO

DIN 844-B NORM	DIN 1835-B
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DDB.HA



TiAIN-1

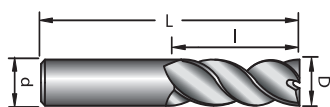
DIN 844-B NORM	DIN 1835-B
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M3

N8

S2

MC



HSSE
Co 8

SERIE
N

W
TYP



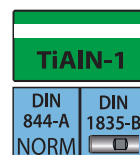
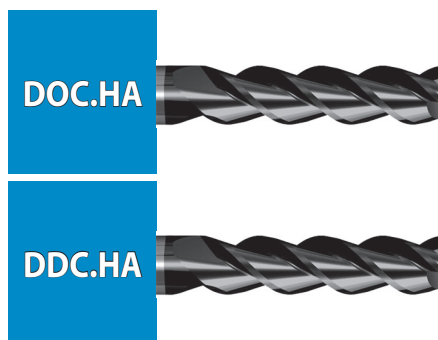
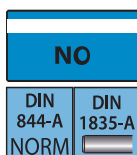
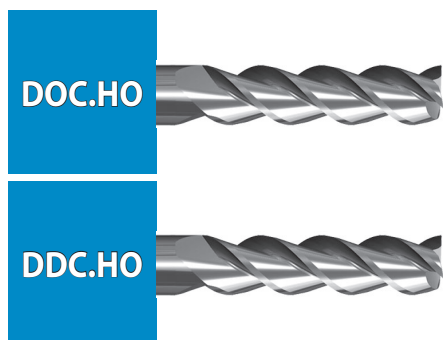
45°
HELIX



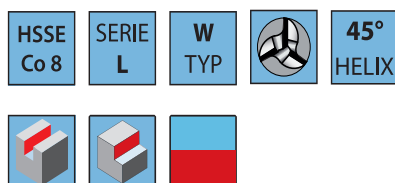
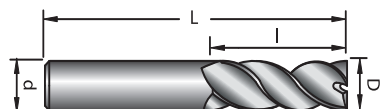
DOB.HO	DDB.HO	DOB.HA	DDB.HA	D	d	l	L	Z
				e8	h6			
00400	00400	00400	00400	4	6	11	55	3
00500	00500	00500	00500	5	6	13	57	3
00600	00600	00600	00600	6	6	13	57	3
00700	00700	00700	00700	7	10	16	66	3
00800	00800	00800	00800	8	10	19	69	3
00900	00900	00900	00900	9	10	19	69	3
01000	01000	01000	01000	10	10	22	72	3
01100	01100	01100	01100	11	12	22	79	3
01200	01200	01200	01200	12	12	26	83	3
01300	01300	01300	01300	13	12	26	83	3

DOB.HO	DDB.HO	DOB.HA	DDB.HA	D	d	l	L	Z
				e8	h6			
01400	01400	01400	01400	14	12	26	83	3
01500	01500	01500	01500	15	12	26	83	3
01600	01600	01600	01600	16	16	32	92	3
01800	01800	01800	01800	18	16	32	92	3
02000.20	02000.20	02000.20	02000.20	20	20	38	104	3
02200.20	02200.20	02200.20	02200.20	22	20	38	104	3
02500	02500	02500	02500	25	25	45	121	3
02800	02800	02800	02800	28	25	45	121	3
03000	03000	03000	03000	30	25	45	121	3

HSSE

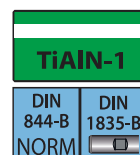
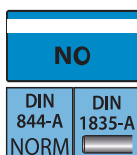


MC

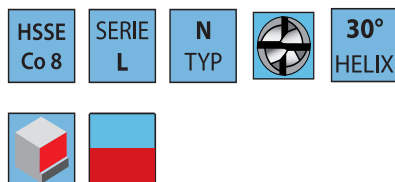
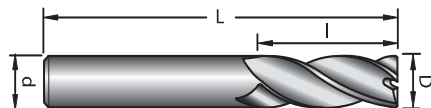


DOC.HO	DDC.HO	DOC.HA	DDC.HA	D	d	l	L	Z
				e8	h6			
00400	00400	00400	00400	4	6	19	63	3
00500	00500	00500	00500	5	6	24	68	3
00600	00600	00600	00600	6	6	24	68	3
00800	00800	00800	00800	8	10	38	88	3
01000	01000	01000	01000	10	10	45	95	3
01200	01200	01200	01200	12	12	53	110	3

DOC.HO	DDC.HO	DOC.HA	DDC.HA	D	d	l	L	Z
				e8	h6			
01400	01400	01400	01400	14	12	53	110	3
01500	01500	01500	01500	15	12	53	110	3
01600	01600	01600	01600	16	16	63	123	3
01800	01800	01800	01800	18	16	63	123	3
02000.20	02000.20	02000.20	02000.20	20	20	75	141	3

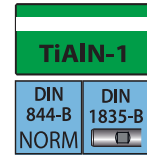
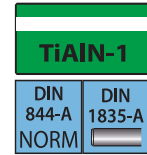
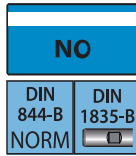
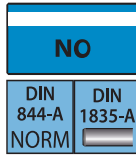


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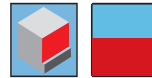
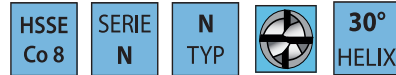
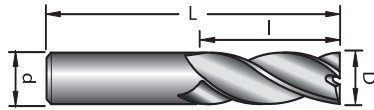


ABOC.HO	ABDC.HA	D	d	l	L	Z
		k10	h6			
00300	00300	3	6	12	56	4
00400	00400	4	6	19	63	4
00500	00500	5	6	24	68	4
00600	00600	6	6	24	68	4
00700	00700	7	10	30	80	4
00800	00800	8	10	38	88	4
00900	00900	9	10	38	88	4
01000	01000	10	10	45	95	4
01100	01100	11	12	45	102	4
01200	01200	12	12	53	110	4
01300	01300	13	12	53	110	4
01400	01400	14	12	53	110	4

ABOC.HO	ABDC.HA	D	d	l	L	Z
		k10	h6			
01500	01500	15	12	53	110	4
01600	01600	16	16	63	123	4
01800	01800	18	16	63	123	4
02000.20	02000.20	20	20	75	141	4
02200.20	02200.20	22	20	75	141	4
02400	02400	24	25	90	166	4
02500	02500	25	25	90	166	4
02600	02600	26	25	90	166	4
02800	02800	28	25	90	166	4
03000	03000	30	25	90	166	4
03200	03200	32	32	106	186	6

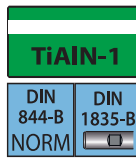


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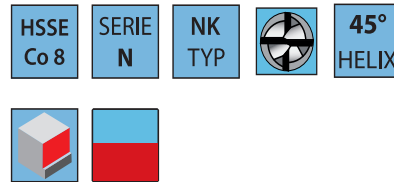
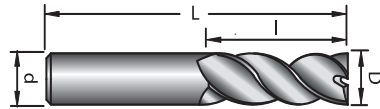


ABOB.HO.	ABDB.HO.	ABOB.HA.	ABDB.HA.	D	d	l	L	Z
				e8	h6			
00200	00200	00200	00200	2	6	7	51	4
00300	00300	00300	00300	3	6	8	52	4
00400	00400	00400	00400	4	6	11	55	4
00500	00500	00500	00500	5	6	13	57	4
00600	00600	00600	00600	6	6	13	57	4
00700	00700	00700	00700	7	10	16	66	4
00800	00800	00800	00800	8	10	19	69	4
00900	00900	00900	00900	9	10	19	69	4
01000	01000	01000	01000	10	10	22	72	4
01100	01100	01100	01100	11	12	22	79	4
01200	01200	01200	01200	12	12	26	83	4
01300	01300	01300	01300	13	12	26	83	4
01400	01400	01400	01400	14	12	26	83	4
01500	01500	01500	01500	15	12	26	83	4

ABOB.HO.	ABDB.HO.	ABOB.HA.	ABDB.HA.	D	d	l	L	Z
				e8	h6			
01600	01600	01600	01600	16	16	32	92	4
01700	01700	01700	01700	17	16	32	92	4
01800	01800	01800	01800	18	16	32	92	4
01900	01900	01900	01900	19	16	32	92	4
02000.20	02000.20	02000.20	02000.20	20	20	38	104	4
02200.20	02200.20	02200.20	02200.20	22	20	38	104	4
02400	02400	02400	02400	24	25	45	121	4
02500	02500	02500	02500	25	25	45	121	4
02600	02600	02600	02600	26	25	45	121	4
02800	02800	02800	02800	28	25	45	121	4
03000	03000	03000	03000	30	25	45	121	4
03200	03200	03200	03200	32	32	53	133	6
04000	04000	04000	04000	40	32	63	143	6



MC

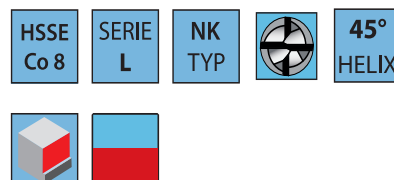
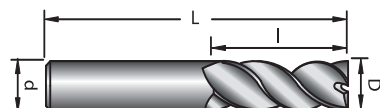


ADDB.HA.	D	d	I	L	Z
	k10	h6			
00400	4	6	11	55	4
00500	5	6	13	57	4
00600	6	6	13	57	4
00700	7	10	16	66	4
00800	8	10	19	69	4
00900	9	10	19	69	4
01000	10	10	22	72	4
01100	11	12	22	79	4
01200	12	12	26	83	4
01300	13	12	26	83	4

ADDB.HA.	D	d	I	L	Z
	k10	h6			
01400	14	12	26	83	4
01500	15	12	26	83	4
01600	16	16	32	92	4
01800	18	16	32	92	4
02000.20	20	20	38	104	4
02200.20	22	20	38	104	4
02500	25	25	45	121	4
02800	28	25	45	121	4
03000	30	25	45	121	4



MC



ADDC.HA.	D	d	I	L	Z
	k10	h6			
00400	4	6	19	63	4
00500	5	6	24	68	4
00600	6	6	24	68	4
00800	8	10	38	88	4
01000	10	10	45	95	4
01200	12	12	53	110	4

ADDC.HA.	D	d	I	L	Z
	k10	h6			
01400	14	12	53	110	4
01500	15	12	53	110	4
01600	16	16	63	123	4
01800	18	16	63	123	4
02000.20	20	20	75	141	4

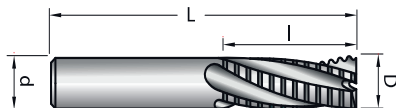


TiAlN-1	
DIN 844-B NORM	DIN 1835-B

P1	M3	K5	N7	S2	S4
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MC



HSSE Co 8	SERIE N	NF TYP	30° HELIX
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ABDH.HA.	D	d	l	L	Z
	k12	h6			
00600	6	6	13	57	4
00800	8	10	19	69	4
01000	10	10	22	72	4
01200	12	12	26	83	4
01400	14	12	26	83	4

ABDH.HA.	D	d	l	L	Z
	k12	h6			
01600	16	16	32	92	4
01800	18	16	32	92	4
02000.20	20	20	38	104	4
02500	25	25	45	121	4



NO	
DIN 844-A NORM	DIN 1835-A



TiAlN-1	
DIN 844-A NORM	DIN 1835-A



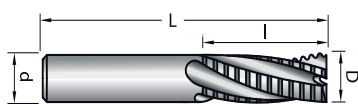
NO	
DIN 844-B NORM	DIN 1835-B



TiAlN-1	
DIN 844-B NORM	DIN 1835-B

P1	M3	K5	N7	N8
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MC

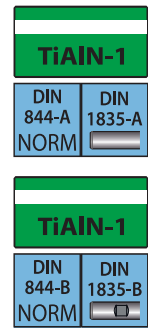
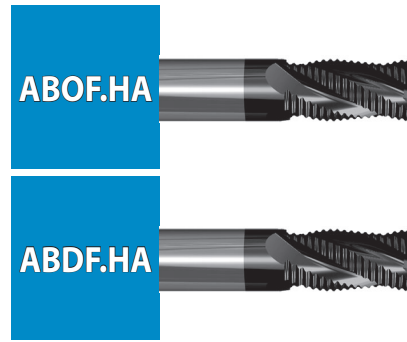
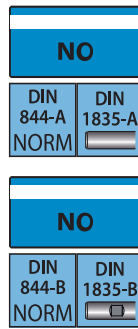
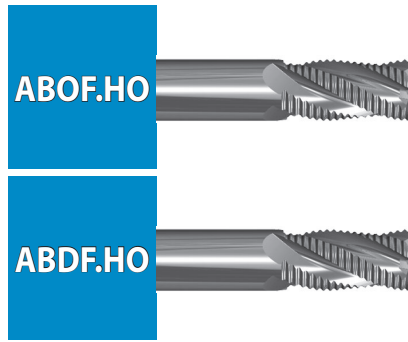


HSSE Co 8	SERIE N	NR TYP	30° HELIX
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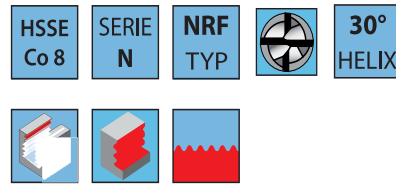
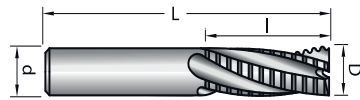


BOF.HO.	BDF.HO.	BOF.HA.	BDF.HA.	D	d	l	L	Z
				k12	h6			
00600	00600	00600	00600	6	6	13	57	4
00700	00700	00700	00700	7	10	16	66	4
00800	00800	00800	00800	8	10	19	69	4
00900	00900	00900	00900	9	10	19	69	4
01000	01000	01000	01000	10	10	22	72	4
01100	01100	01100	01100	11	12	22	79	4
01200	01200	01200	01200	12	12	26	83	4
01300	01300	01300	01300	13	12	26	83	4
01400	01400	01400	01400	14	12	26	83	4
01500	01500	01500	01500	15	12	26	83	4
01600	01600	01600	01600	16	16	32	92	4
01700	01700	01700	01700	17	16	32	92	4

BOF.HO.	BDF.HO.	BOF.HA.	BDF.HA.	D	d	l	L	Z
				k12	h6			
01800	01800	01800	01800	18	16	32	92	4
01900	01900	01900	01900	19	16	32	92	4
02000.20	02000.20	02000.20	02000.20	20	20	38	104	4
02200.20	02200.20	02200.20	02200.20	22	20	38	104	5
02400	02400	02400	02400	24	25	45	121	5
02500	02500	02500	02500	25	25	45	121	5
02600	02600	02600	02600	26	25	45	121	5
02800	02800	02800	02800	28	25	45	121	5
03000	03000	03000	03000	30	25	45	121	5
03200	03200	03200	03200	32	32	53	133	6
04000	04000	04000	04000	40	32	63	143	6

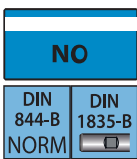
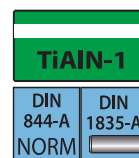
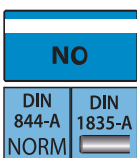


MC



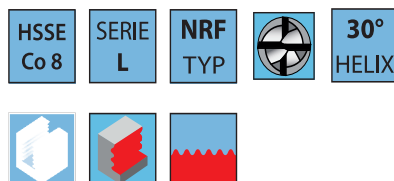
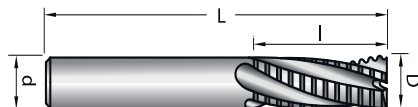
ABOF.HO.	ABDF.HO.	ABOF.HA.	ABDF.HA.	D	d	l	L	Z
				k12	h6			
00600	00600	00600	00600	6	6	13	57	4
00700	00700	00700	00700	7	10	16	66	4
00800	00800	00800	00800	8	10	19	69	4
00900	00900	00900	00900	9	10	19	69	4
01000	01000	01000	01000	10	10	22	72	4
01100	01100	01100	01100	11	12	22	79	4
01200	01200	01200	01200	12	12	26	83	4
01300	01300	01300	01300	13	12	26	83	4
01400	01400	01400	01400	14	12	26	83	4
01500	01500	01500	01500	15	12	26	83	4
01600	01600	01600	01600	16	16	32	92	4
01700	01700	01700	01700	17	16	32	92	4

ABOF.HO.	ABDF.HO.	ABOF.HA.	ABDF.HA.	D	d	l	L	Z
				k12	h6			
01800	01800	01800	01800	18	16	32	92	4
01900	01900	01900	01900	19	16	32	92	4
02000.20	02000.20	02000.20	02000.20	20	20	38	104	4
02200.20	02200.20	02200.20	02200.20	22	20	38	104	4
02400	02400	02400	02400	24	25	45	121	4
02500	02500	02500	02500	25	25	45	121	4
02600	02600	02600	02600	26	25	45	121	4
02800	02800	02800	02800	28	25	45	121	4
03000	03000	03000	03000	30	25	45	121	4
03200	03200	03200	03200	32	32	53	133	6
04000	04000	04000	04000	40	32	63	143	6



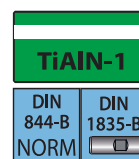
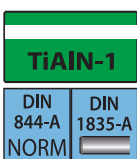
P1 M3 K5 N6 S2 S4

MC



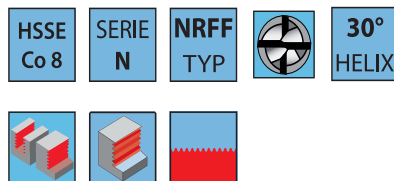
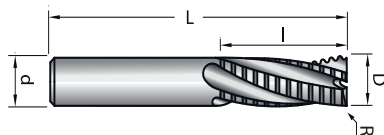
ABDG.HO.	ABDG.HO.	ABOG.HA.	ABDG.HA.	D	d	l	L	Z
				k12	h6			
00600	00600	00600	00600	6	6	24	68	4
00700	00700	00700	00700	7	10	30	80	4
00800	00800	00800	00800	8	10	38	88	4
00900	00900	00900	00900	9	10	38	88	4
01000	01000	01000	01000	10	10	45	95	4
01100	01100	01100	01100	11	12	45	102	4
01200	01200	01200	01200	12	12	53	110	4
01300	01300	01300	01300	13	12	53	110	4
01400	01400	01400	01400	14	12	53	110	4
01500	01500	01500	01500	15	12	53	110	4
01600	01600	01600	01600	16	16	63	123	4

ABDG.HO.	ABDG.HO.	ABOG.HA.	ABDG.HA.	D	d	l	L	Z
				k12	h6			
01700	01700	01700	01700	17	16	63	123	4
01800	01800	01800	01800	18	16	63	123	4
01900	01900	01900	01900	19	16	63	123	4
02000.20	02000.20	02000.20	02000.20	20	20	75	141	4
02200.20	02200.20	02200.20	02200.20	22	20	75	141	4
02400	02400	02400	02400	24	25	90	166	4
02500	02500	02500	02500	25	25	90	166	4
02600	02600	02600	02600	26	25	90	166	4
02800	02800	02800	02800	28	25	90	166	4
03000	03000	03000	03000	30	25	90	166	4
03200	03200	03200	03200	32	32	106	186	6



P1 M3 K5 N6 S2 S4

MC



AEOF.HA	AEDF.HA	D	d	l	L	Z
		k12	h6			
00500	00500	5	6	13	57	4
00600	00600	6	6	13	57	4
00800	00800	8	10	19	69	4
01000	01000	10	10	22	72	4
01200	01200	12	12	26	83	4
01400	01400	14	12	26	83	4

AEOF.HA	AEDF.HA	D	d	l	L	Z
		k12	h6			
01600	01600	16	16	32	92	4
01800	01800	18	16	32	92	4
02000.20	02000.20	20	20	38	104	4
02500	02500	25	25	45	121	5
02800	02800	28	25	45	121	5
03200	03200	32	32	53	133	6