



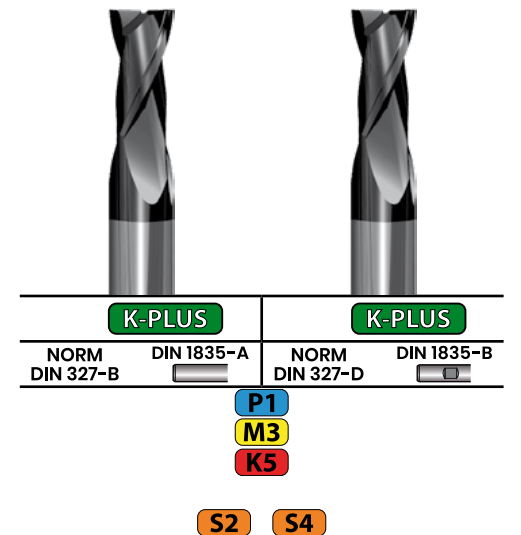
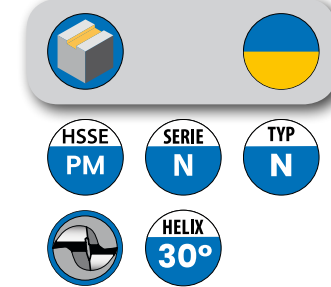
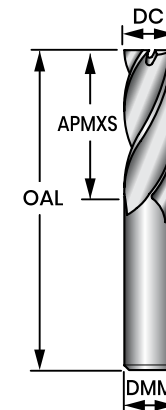
SUPERKEN

Acero Super Rápido Pulvimetalúrgico
 Powder High Speed Steel
 Acier Super Rapide Frité
 Acciao Super Rapido Sinterizzato
 Pulverschnellarbeitsstahl
 Спеченная быстрорежущая сталь

INDICE
INDEX
INDEX
INDICE
INHALT
Индекс

INDICE INDEX INDEX INDICE INHALT Индекс													
ITAM	DIN 1835-A 	K-PLUS	200.91	1402.91	1102.91	1506.91							
	DIN 1835-B 	BRILLANTE UNCOATED					1642.70				1643.70		
		K-PLUS	240.91	1442.91	1142.91	1546.91		1642.71	1642.71..RI		1643.71	1643.71..RI	
SERIE													
NORMA STANDARD		DIN 1835-A 	DIN 327-B	DIN 844A									
		DIN 1835-B 	DIN 327-D	DIN 844B		DIN 844B			DIN 844B				
TIPO TYP													
TIPO DE TRABAJO TYPE OF MILLING													
Ø			2 ÷ 20	4 ÷ 30	6 ÷ 32	6 ÷ 32	16 ÷ 32			16 ÷ 32			
PCEDC (Z)			2	4	5	4 ÷ 6	4 ÷ 5			4 ÷ 5			
TECNOLOGÍA / TECHNOLOGY			CSC	CSC	CSC	CSC	CSC			CSC			
			213	214	215	216	217	217	217	218	218	218	

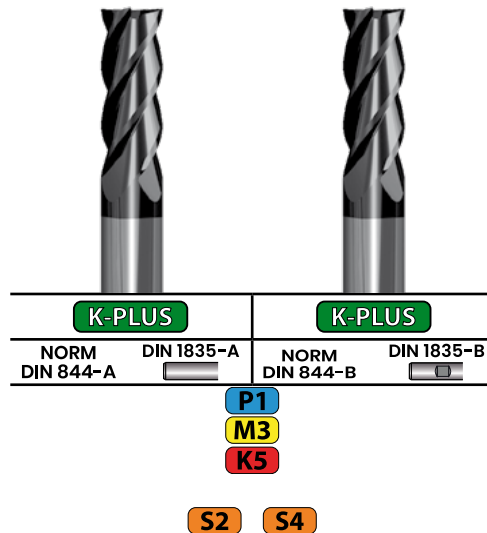
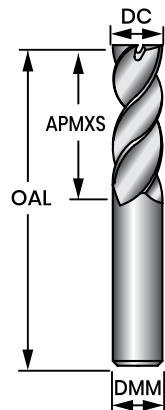
Fresa frontal, 2 labios - Corte al centro
2 flute slot drill - Center cut
Fraise cylindrique en bout, 2 dents - Coupe au centre
Fresa cilíndrica frontal, 2 denti - Taglio al centro
Langlochfräser, 2 Schneiden - Zentrumsschnitt
Фреза 2-х зубая концевая с торцовой режущей частью



DC	DMM	APMXS	OAL	PCEDC
e8	h6			
2	6	4	48	2
2,5	6	5	49	2
3	6	5	49	2
3,5	6	6	50	2
4	6	7	51	2
4,5	6	7	51	2
5	6	8	52	2
5,5	6	8	52	2
6	6	8	52	2
6,5	10	10	60	2
7	10	10	60	2
7,5	10	10	60	2
8	10	11	61	2
8,5	10	11	61	2
9	10	11	61	2
10	10	13	63	2
12	12	16	73	2
14	12	16	73	2
15	12	16	73	2
16	16	19	79	2
18	16	19	79	2
20	20	22	88	2

200.91.	240.91.
00200	00200
00250	00250
00300	00300
00350	00350
00400	00400
00450	00450
00500	00500
00550	00550
00600	00600
00650	00650
00700	00700
00750	00750
00800	00800
00850	00850
00900	00900
01000	01000
01200	01200
01400	01400
01500	01500
01600	01600
01800	01800
02000.20	02000.20

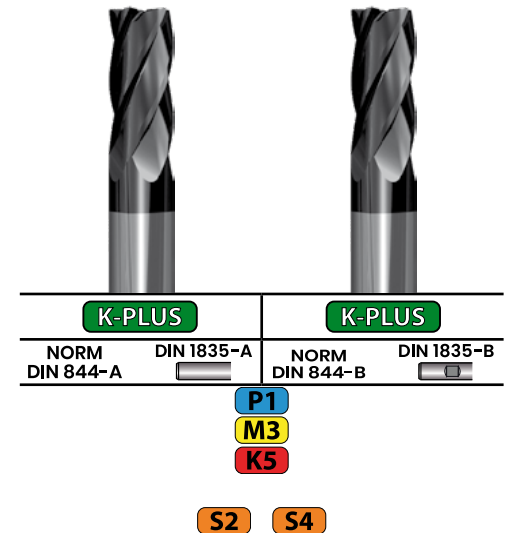
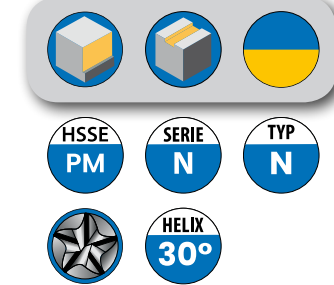
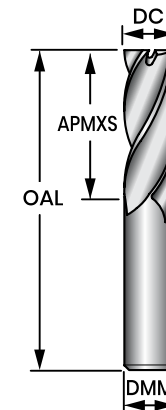
Fresa frontal, 4 labios - Corte al centro
4 flute end mill - Center cut
Fraise cylindrique en bout, 4 dents - Coupe au centre
Fresa cilindrica frontali, 4 denti - Taglio al centro
Schaftfräser, 4 Schneiden - Zentrumsschnitt
Фреза 4-х зубая концевая с торцовой режущей частью



DC	DMM	APMXS	OAL	PCEDC
K10	h6			
4	6	11	55	4
5	6	13	57	4
6	6	13	57	4
7	10	16	66	4
8	10	19	69	4
9	10	19	69	4
10	10	22	72	4
11	12	22	79	4
12	12	26	83	4
13	12	26	83	4
14	12	26	83	4
15	12	26	83	4
16	16	32	92	4
18	16	32	92	4
20	20	38	104	4
22	20	38	104	4
25	25	45	121	4
28	25	45	121	4
30	25	45	121	4

1402.91.	1442.91.
00400	00400
00500	00500
00600	00600
00700	00700
00800	00800
00900	00900
01000	01000
01100	01100
01200	01200
01300	01300
01400	01400
01500	01500
01600	01600
01800	01800
02000.20	02000.20
02200.20	02200.20
02500	02500
02800	02800
03000	03000

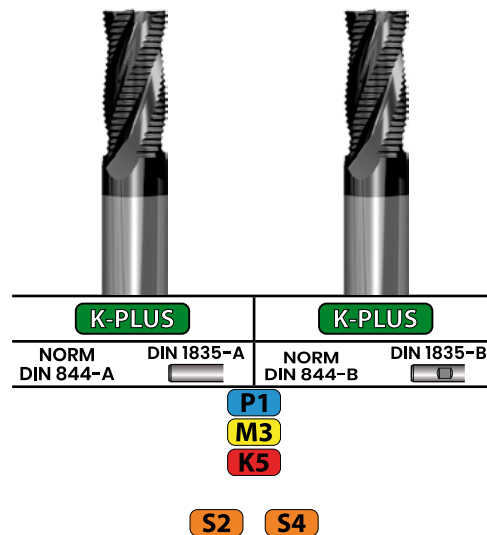
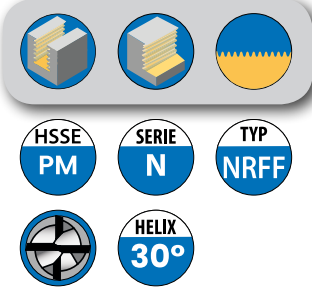
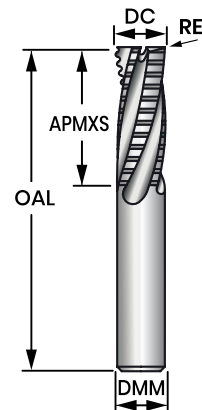
Fresa frontal, varios labios - Corte al centro
Multi flute end mill - Center cut
Fraise cylindrique en bout, multident - Coupe au centre
Fresa cilindrica frontali, multidenti - Taglio al centro
Schaftfräser, Mehrschneiden - Zentrumsschnitt
Многозубая концевая фреза с торцовой режущей частью - Центральным резом



DC	DMM	APMXS	OAL	PCEDC
K10	h6			
6	6	13	57	5
8	10	19	69	5
10	10	22	72	5
12	12	26	83	5
16	16	32	92	5
20	20	38	104	5
25	25	45	121	5
32	32	53	133	5

1102.91.	1142.91.
00600	00600
00800	00800
01000	01000
01200	01200
01600	01600
02000.20	02000.20
02500	02500
03200	03200

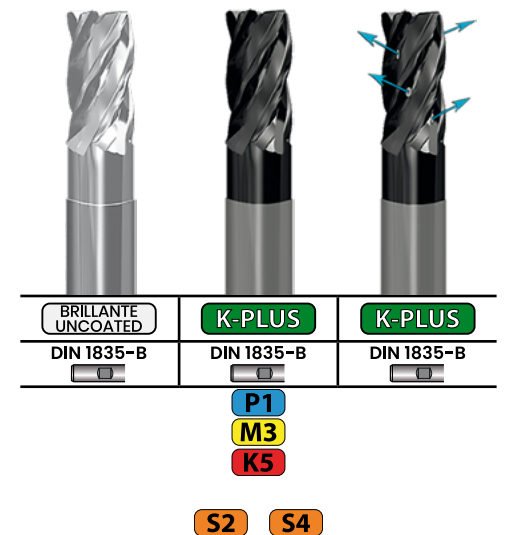
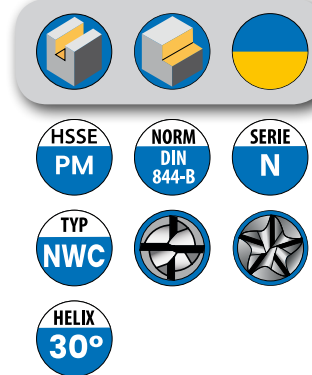
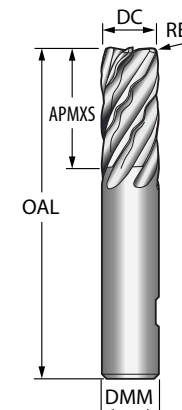
Fresa frontal de desbaste, varios labios, paso extra fino - Corte al centro
 Several flute roughing end mill, extra fine profile - Center cut
 Fraise cylindrique ravageuse, multident, pas extra fin - Coupe au centre
 Fresa cilindriche multident per sgrossatura, passo extra fine - Taglio al centro
 Schrapp-Mehrzahnfräser, extra feine Teilung - Zentrumsschnitt
 Несколько флейт черновой фрезы, дополнительная мелкий шаг - Центральным резом



DC	DMM	APMXS	OAL	PCEDC	RE
k12	h6				±0,05
6	6	13	57	4	
7	10	16	66	4	
8	10	19	69	4	
9	10	19	69	4	
10	10	22	72	4	
11	12	22	79	4	
12	12	26	83	4	
12	12	26	83	4	2,5
12	12	26	83	4	4
13	12	26	83	4	
14	12	26	83	4	
15	12	26	83	4	
16	16	32	92	4	
16	16	32	92	4	2,5
16	16	32	92	4	4
18	16	32	92	4	
20	20	38	104	4	
20	20	38	104	4	2,5
20	20	38	104	4	4
20	20	38	104	4	6
22	20	38	104	5	
25	25	45	121	5	
25	25	45	121	5	2,5
25	25	45	121	5	4
25	25	45	121	5	6
28	25	45	121	5	
32	32	53	133	6	

1506.91.	1546.91.
00600	00600
00700	00700
00800	00800
00900	00900
01000	01000
01100	01100
01200	01200
	01200.0025
	01200.0040
01300	01300
01400	01400
01500	01500
01600	01600
	01600.0025
	01600.0040
01800	01800
02000.20	02000.20
	02000.2025
	02000.2040
	02000.2060
02200.20	02200.20
02500	02500
	02500.0025
	02500.0040
	02500.0060
02800	02800
03000	03000

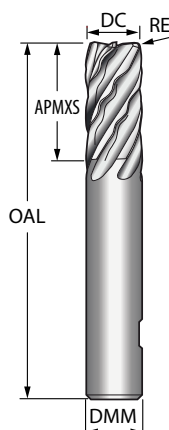
Fresa frontal de desbaste, perfil cresta de ola, varios labios - Corte al centro
 Several flutes Roughing end mill, wave cut profile - Center cutting
 Fraise cylindrique ravageuse multident, profil crête de la vague - Coupe au centre
 Fresa cilindriche multident per sgrossatura, cresta dell'onda profilo - Taglio al centro
 Schrappfräser, welle profil, mehrschneiden - Zentrumschnitt
 Многозубая черновая фреза с волнистой кромкой - с центральным режущим зубом



DC	DMM	APMXS	OAL	PCEDC	RE
k10	h6				±0,05
16	16	32	92	4	1
16	16	32	92	4	2,5
16	16	32	92	4	4
20	20	38	104	4	1
20	20	38	104	4	2,5
20	20	38	104	4	4
25	25	45	121	5	1
25	25	45	121	5	2,5
25	25	45	121	5	4
32	32	53	133	5	1
32	32	53	133	5	2,5
32	32	53	133	5	4

1642.70.	1642.71.	1642.71..RI
01600.0010	01600.0010	01600.R110
01600.0025	01600.0025	01600.R125
01600.0040	01600.0040	01600.R140
02000.0010	02000.0010	02000.R110
02000.0025	02000.0025	02000.R125
02000.0040	02000.0040	02000.R140
02500.0010	02500.0010	02500.R110
02500.0025	02500.0025	02500.R125
02500.0040	02500.0040	02500.R140
03200.0010	03200.0010	03200.R110
03200.0025	03200.0025	03200.R125
03200.0040	03200.0040	03200.R140

Fresa frontal de desbaste, perfil cresta de ola, varios labios, larga - Corte al centro
Several flutes Roughing end mill, wave cut profile, long - Center cutting
 Fraise cylindrique ravageuse multident, profil crête de la vague, longue - Coupe au centre
 Fresa cilindrica multident per sgrossatura, cresta dell'onda profilo, lunga - Taglio al centro
 Schrappfräser, welle profil, mehrschneiden, lang - Zentrumschnitt
 Многозубая черновая фреза с волнистой кромкой, длинная серия - с центральным режущим зубом



HSSE
PM

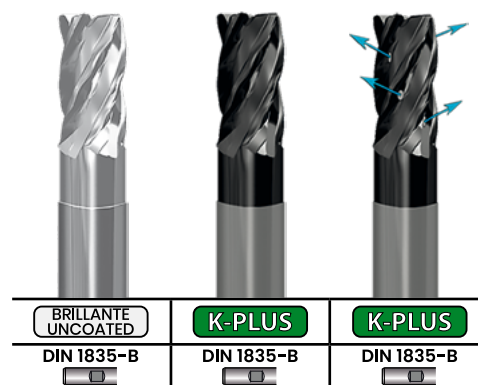
NORM
DIN
844-B

SERIE
L

TYP
NWC



HELIX
30°



P1

M3

K5

S2

S4

DC	DMM	APMXS	OAL	PCEDC	RE
k10	h6				±0,05
16	16	63	123	4	1
16	16	63	123	4	2,5
16	16	63	123	4	4
20	20	75	141	4	1
20	20	75	141	4	2,5
20	20	75	141	4	4
25	25	90	166	5	1
25	25	90	166	5	2,5
25	25	90	166	5	4
32	32	106	186	5	1
32	32	106	186	5	2,5
32	32	106	186	5	4

1643.70.	1643.71.	1643.71...RI
01600.0010	01600.0010	01600.RI10
01600.0025	01600.0025	01600.RI25
01600.0040	01600.0040	01600.RI40
02000.0010	02000.0010	02000.RI10
02000.0025	02000.0025	02000.RI25
02000.0040	02000.0040	02000.RI40
02500.0010	02500.0010	02500.RI10
02500.0025	02500.0025	02500.RI25
02500.0040	02500.0040	02500.RI40
03200.0010	03200.0010	03200.RI10
03200.0025	03200.0025	03200.RI25
03200.0040	03200.0040	03200.RI40