



HMKEN

CSC CONVENCIONAL
SPEED
CUTTING

INDICE
INDEX
INDEX
INDICE
INHALT
Индекс



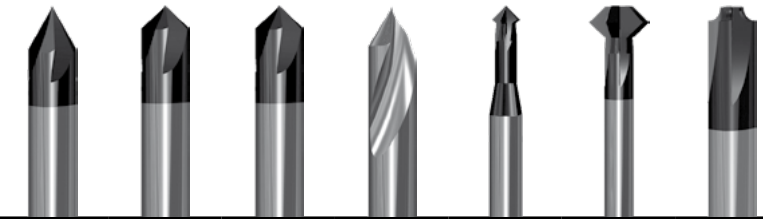
ITEM	DIN 6535-HA 	BRILLANTE UNCOATED	A200.60	A300.60	100.60	200.60	201.60	204.60	901.60	902.60	903.60	302.60	303.60
		K-CROM+			100.67		201.67	204.67		902.67	903.67	302.67	
		K-PRO				200.62			901.62				303.62
SERIE			SERIE S	SERIE N	SERIE S	SERIE N	SERIE L	SERIE XL	SERIE N	SERIE L	SERIE XL	SERIE S	SERIE N
NORMA STANDARD			KENDU	DIN 6527L	DIN 6527K	DIN 6527L	KENDU		DIN 6527L	KENDU		DIN 6527K	DIN 6527L
TIPO TYP			TYP NKE	TYP W		TYP N				TYP N			TYP N
TIPO DE TRABAJO TYPE OF MILLING													
Ø			2 ÷ 20	2 ÷ 20	3 ÷ 12	1 ÷ 20	3 ÷ 20	3 ÷ 20	2 ÷ 20	3 ÷ 20	3 ÷ 20	2 ÷ 20	2 ÷ 20
PCEDC (Z)			2	2		2				2			3
TECNOLOGÍA / TECHNOLOGY			CSC	CSC		CSC				CSC			CSC
			180	180	181	182	183	183	184	185	185	186	187

INDICE
INDEX
INDEX
INDICE
INHALT
Индекс



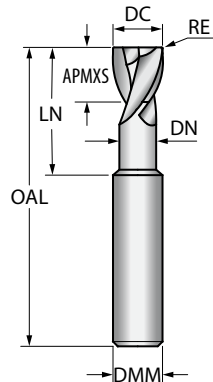
ITEM	DIN 6535-HA 	BRILLANTE UNCOATED	402.60	403.60	404.60	1202.60	1203.60	1204.60	1901.60	1902.60		
		K-CROM+		403.67	404.67		1203.67	1204.67		1902.67	1208.67	1402.67
		K-PRO	402.62			1202.62			1901.62			
SERIE			SERIE N	SERIE L	SERIE XL	SERIE N	SERIE L	SERIE XL	SERIE N	SERIE L	SERIE N	SERIE N
NORMA STANDARD			DIN 6527L	KENDU		DIN 6527L	KENDU		KENDU		DIN 6527L	DIN 6527L
TIPO TYP				TYP W			TYP N		TYP N		TYP NF	TYP NK
TIPO DE TRABAJO TYPE OF MILLING												
Ø				3 ÷ 20		2 ÷ 20	3 ÷ 20		4 ÷ 20	6 ÷ 20		4 ÷ 20
PCEDC (Z)				3			4		4	4		4
TECNOLOGÍA / TECHNOLOGY				CSC			CSC		CSC	CSC		CSC
			188	189	189	190	191	191	192	192	193	194

INDICE
INDEX
INDEX
INDICE
INHALT
Индекс



ITEM	DIN 6535-HA 	BRILLANTE UNCOATED				C106.60		
		K-CROM+	C406.67	C409.67	C400.67		D409.67	RC01.67
		DIN 6535-HB 	K-CROM+	C446.67	C449.67	C440.67		
SERIE			SERIE N	SERIE N	SERIE N	SERIE N	SERIE L	SERIE N
NORMA STANDARD			KENDU	KENDU	KENDU	KENDU	KENDU	KENDU
TIPO TYP								
TIPO DE TRABAJO TYPE OF MILLING								
Ø			4 ÷ 12	4 ÷ 12	6 ÷ 20	3 ÷ 6	3 ÷ 6	8 ÷ 12
PCEDC (Z)			4	4	4	1	4	4
TECNOLOGÍA / TECHNOLOGY			CSC	CSC	CSC	CSC	CSC	CSC
			195	195	196	196	197	197

Fresa frontal 2 labios, corta, ALU – Corte al centro
 2 flute slot drill, short, ALU – Center cut
 Fraise cylindrique en bout, 2 dents, court, ALU – Coupe au centre
 Fresa cilindrica frontali, 2 denti, corta, ALU – Taglio al centro
 ALU Schaftfräser, 2 Schneiden, kurz – Zentrumsschnitt
 Фреза 2-х зубая концевая с торцовой режущей частью по алюминию



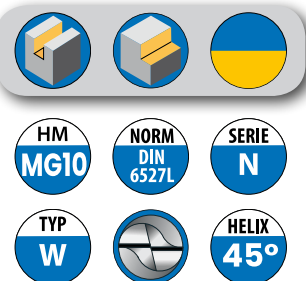
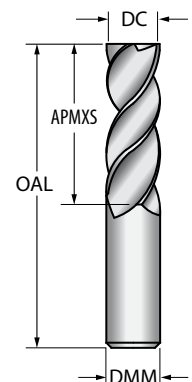
N7 N8

DC	DMM	APMXS	OAL	PCEDC	DN	LN	RE
h10	h6						
2	3	3	38	2	1,9	9	0,1
3	3	4	38	2	2,9	10	0,1
4	6	5	54	2	3,8	14	0,1
5	6	6	54	2	4,8	17	0,1
6	6	7	54	2	5,7	18	0,1
8	8	9	58	2	7,7	20	0,1
10	10	11	66	2	9,7	24	0,1
12	12	12	73	2	11,5	28	0,15
16	16	16	82	2	15,5	34	0,15
20	20	20	92	2	19,5	42	0,15

A200.60.

00200
 00300
 00400
 00500
 00600
 00800
 01000
 01200
 01600
 02000.20

Fresa frontal 2 labios, ALU – Corte al centro
 2 flute slot drill, ALU – Center cut
 Fraise cylindrique en bout, 2 dents, ALU – Coupe au centre
 Fresa cilindrica frontali, 2 denti, ALU – Taglio al centro
 ALU Schaftfräser, 2 Schneiden – Zentrumsschnitt
 Фреза 2-х зубая концевая с торцовой режущей частью по алюминию



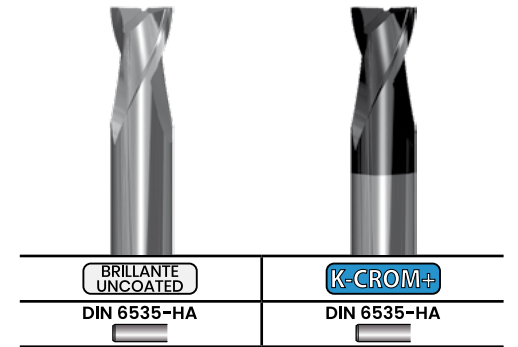
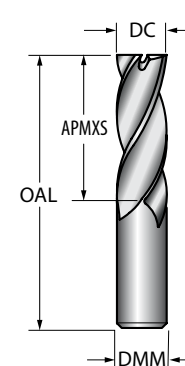
N7 N8

DC	DMM	APMXS	OAL	PCEDC
h9	h6			
2	3	7	38	2
3	3	8	38	2
4	6	11	57	2
5	6	13	57	2
6	6	13	57	2
8	8	19	63	2
10	10	22	72	2
12	12	26	83	2
16	16	32	92	2
20	20	38	104	2

A300.60.

00200
 00300
 00400
 00500
 00600
 00800
 01000
 01200
 01600
 02000.20

Fresa frontal, 2 labios, corta – Corte al centro
 2 flute slot drill, short – Center cut
 Fraise cylindrique en bout, 2 dents, court – Coupe au centre
 Fresa cilindrica frontali, 2 denti, corta – Taglio al centro
 Langlochfräser, 2 Schneiden, kurz – Zentrumschnitt
 Фреза 2-х зубая концевая с торцовой режущей частью, короткая серия



P1
 M3
 K5
 N6 N8 N9
 S2 S4
 H1

DC	DMM	APMXS	OAL	PCEDC
e8	h6			
3	6	4	50	2
3,8	6	5	54	2
4	6	5	54	2
4,8	6	6	54	2
5	6	6	54	2
5,75	6	7	54	2
6	6	7	54	2
7	8	8	58	2
7,75	8	9	58	2
8	8	9	58	2
9,7	10	11	66	2
10	10	11	66	2
12	12	12	73	2

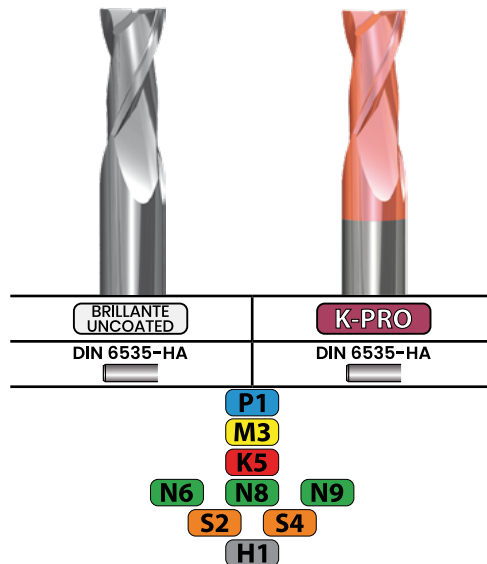
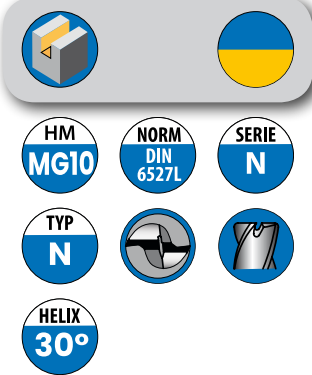
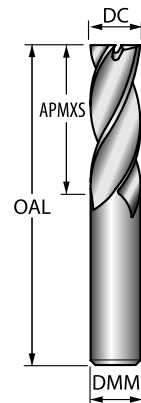
100.60.

100.67.

00300
 00380
 00400
 00480
 00500
 00575
 00600
 00700
 00775
 00800
 00970
 01000
 01200

00300
 00380
 00400
 00480
 00500
 00575
 00600
 00700
 00775
 00800
 00970
 01000
 01200

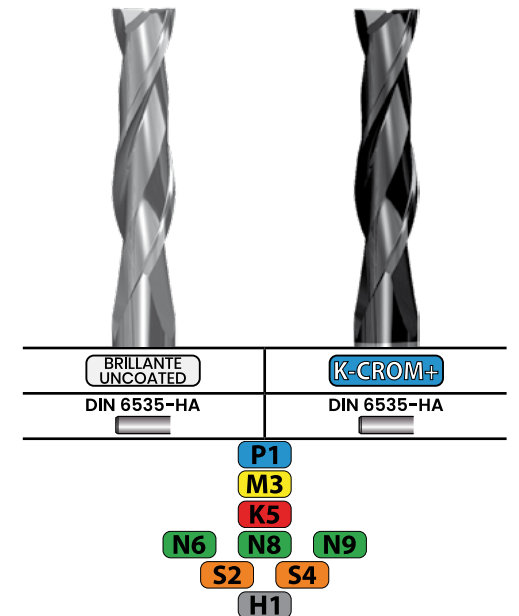
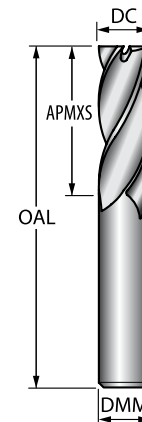
Fresa frontal, 2 labios - Corte al centro
2 flute slot drill - Center cut
Fraise cylindrique en bout, 2 dents - Coupe au centre
Fresa cilindrica frontali, 2 denti - Taglio al centro
Langlochfräser, 2 Schneiden - Zentrumsschnitt
Фреза 2-х зубая концевая с торцовой режущей частью



DC	DMM	APMXS	OAL	PCEDC
e8	h6			
1	3	2,5	38	2
1,5	3	4	38	2
2	3	6	38	2
2,5	3	8	38	2
3	3	7	38	2
3	6	7	57	2
3,5	4	12	40	2
4	4	8	50	2
4	6	8	57	2
4,5	5	14	50	2
5	5	10	50	2
5	6	10	57	2
6	6	10	57	2
7	7	20	60	2
8	8	16	63	2
9	9	20	60	2
10	10	19	72	2
12	12	22	83	2
14	14	22	83	2
16	16	26	92	2
18	18	26	92	2
20	20	32	104	2

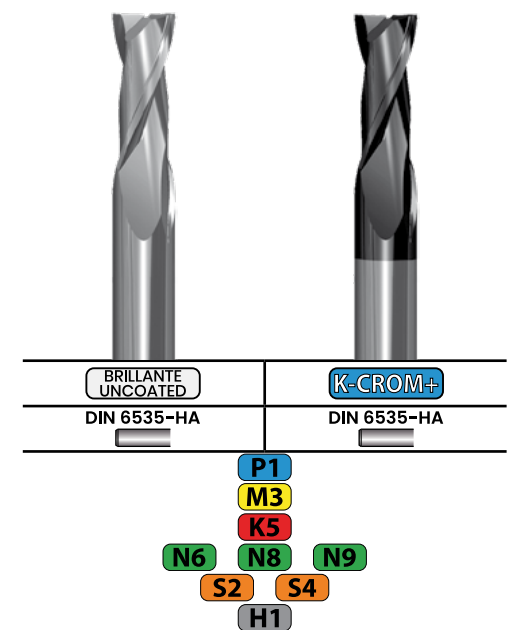
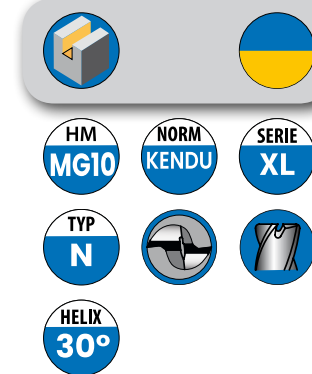
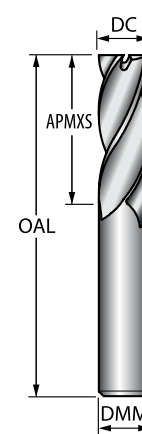
DC	DMM	APMXS	OAL	PCEDC
e8	h6			
1	3	2,5	38	2
1,5	3	4	38	2
2	3	6	38	2
2,5	3	8	38	2
3	3	7	38	2
3	6	7	57	2
3,5	4	12	40	2
4	4	8	50	2
4	6	8	57	2
4,5	5	14	50	2
5	5	10	50	2
5	6	10	57	2
6	6	10	57	2
7	7	20	60	2
8	8	16	63	2
9	9	20	60	2
10	10	19	72	2
12	12	22	83	2
14	14	22	83	2
16	16	26	92	2
18	18	26	92	2
20	20	32	104	2

Fresa frontal, 2 labios, larga - Corte al centro
2 flute slot drill, long - Center cut
Fraise cylindrique en bout, 2 dents, longue - Coupe au centre
Fresa cilindrica frontali, 2 denti, lunga - Taglio al centro
Langlochfräser, 2 Schneiden, lang - Zentrumsschnitt
Фреза 2-х зубая концевая с торцовой режущей частью, длинная серия



DC	DMM	APMXS	OAL	PCEDC
h10	h6			
3	3	30	60	2
4	4	30	60	2
5	5	35	70	2
6	6	40	100	2
8	8	40	100	2
10	10	50	100	2
12	12	50	100	2
14	14	50	100	2
16	16	50	100	2
18	18	50	100	2
20	20	50	100	2

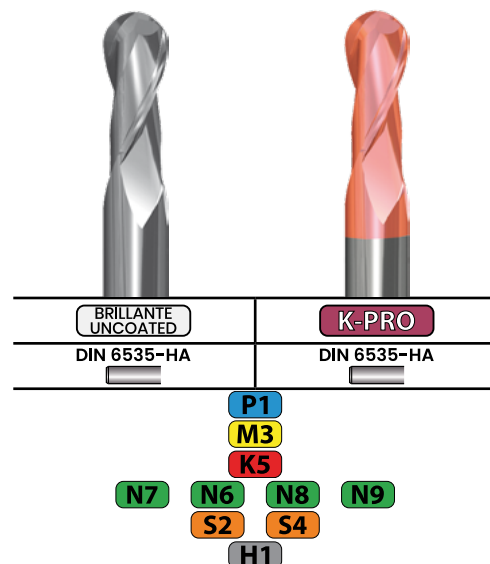
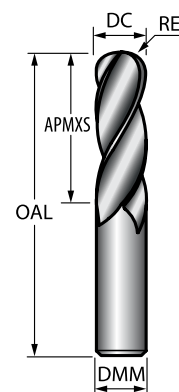
Fresa frontal, 2 labios, extra larga - Corte al centro
2 flute end mill, extra long - Center cut
Fraise cylindrique en bout, 2 dents, extra longue - Coupe au centre
Fresa cilindrica frontali, 2 denti, extra lunga - Taglio al centro
Schaftfräser, 2 Schneiden, extra lang - Zentrumsschnitt
Фреза 2-х зубая концевая с торцовой режущей частью, экстрадлинная серия



DC	DMM	APMXS	OAL	PCEDC
h10	h6			
3	3	10	75	2
4	4	11	100	2
5	5	13	100	2
6	6	13	150	2
8	8	19	150	2
10	10	22	150	2
12	12	26	150	2
14	14	26	150	2
16	16	32	150	2
20	20	38	150	2

DC	DMM	APMXS	OAL	PCEDC
h10	h6			
3	3	10	75	2
4	4	11	100	2
5	5	13	100	2
6	6	13	150	2
8	8	19	150	2
10	10	22	150	2
12	12	26	150	2
14	14	26	150	2
16	16	32	150	2
20	20	38	150	2

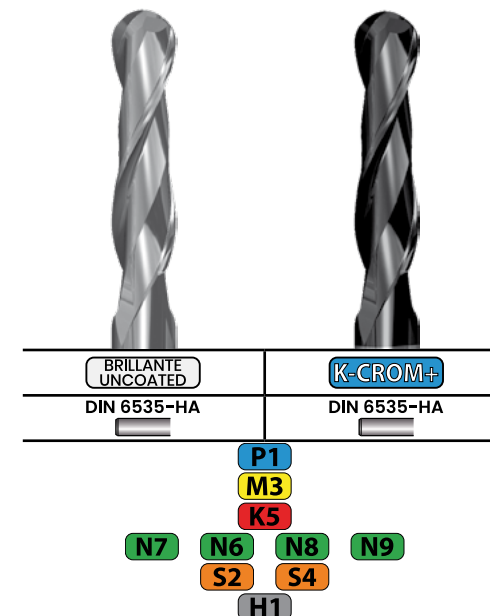
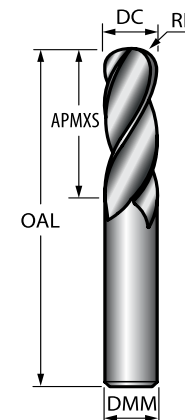
Fresa frontal punta semiesférica, 2 labios
2 flute ball nose slot drill
Fraise cylindrique à bout hémisphérique, 2 dents
Fresa cilindrica frontali a testa semisferica, 2 denti
Kugelfräser, 2 Schneiden
Фреза 2-х зубая с полусферическим торцом



901.60.	901.62.
00200	00200
00250	00250
00300	00300
00300.06	00300.06
00350	00350
00400	00400
00400.06	00400.06
00450	00450
00500	00500
00500.06	00500.06
00600	00600
00700	00700
00800	00800
00900	00900
01000	01000
01200	01200
01400	01400
01600	01600
01800	01800
02000.20	02000.20

DC	DMM	APMXS	OAL	PCEDC	RE
h9	h6				±0,02
2	3	7	38	2	1
2,5	3	8	38	2	1,25
3	3	8	38	2	1,5
3	6	8	57	2	1,5
3,5	4	12	40	2	1,75
4	4	11	50	2	2
4	6	11	57	2	2
4,5	5	14	50	2	2,25
5	5	13	50	2	2,5
5	6	13	57	2	2,5
6	6	13	57	2	3
7	7	20	60	2	3,5
8	8	19	63	2	4
9	9	20	60	2	4,5
10	10	22	72	2	5
12	12	26	83	2	6
14	14	26	83	2	7
16	16	32	92	2	8
18	18	32	92	2	9
20	20	38	104	2	10

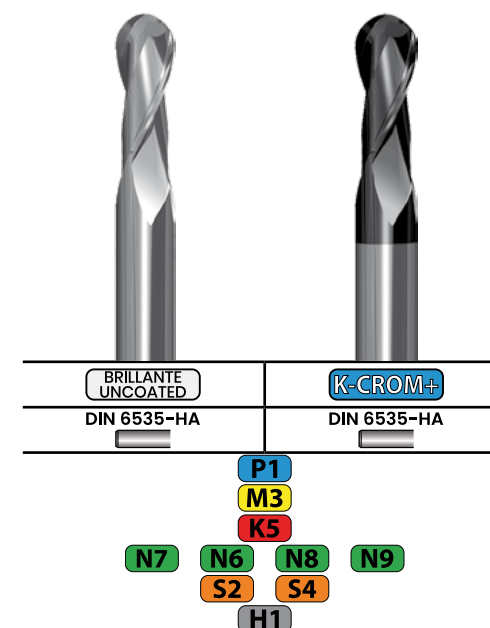
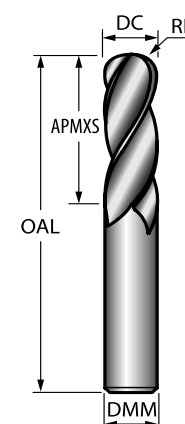
Fresa frontal punta semiesférica, 2 labios, larga
2 flute ball nose slot drill, long
Fraise cylindrique à bout hémisphérique, 2 dents, longue
Fresa cilindrica frontali a testa semisferica, 2 denti, lunga
Kugelfräser, 2 Schneiden, lang
Фреза 2-х зубая с полусферическим торцом, длинная серия



DC	DMM	APMXS	OAL	PCEDC	RE
h9	h6				±0,02
3	3	30	60	2	1,5
4	4	30	60	2	2
5	5	35	70	2	2,5
6	6	40	100	2	3
8	8	40	100	2	4
10	10	50	100	2	5
12	12	50	100	2	6
14	14	50	100	2	7
16	16	50	100	2	8
18	18	50	100	2	9
20	20	50	100	2	10

902.60.	902.67.
00300	00300
00400	00400
00500	00500
00600	00600
00800	00800
01000	01000
01200	01200
01400	01400
01600	01600
01800	01800
02000.20	02000.20

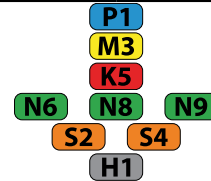
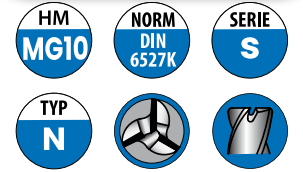
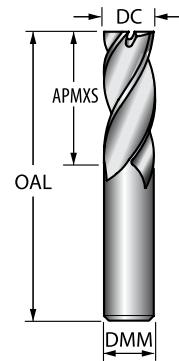
Fresa frontal punta semiesférica, 2 labios, extra larga
2 flute ball nose slot drill, extra long
Fraise cylindrique à bout hémisphérique, 2 dents, extra longue
Fresa cilindrica frontali a testa semisferica, 2 denti, extra lunga
Kugelfräser, 2 Schneiden, extra lang
Фреза 2-х зубая с полусферическим торцом, экстрадлинная серия



DC	DMM	APMXS	OAL	PCEDC	RE
h9	h6				±0,02
3	3	10	75	2	1,5
4	4	11	100	2	2
5	5	13	100	2	2,5
6	6	13	150	2	3
8	8	19	150	2	4
10	10	22	150	2	5
12	12	26	150	2	6
14	14	26	150	2	7
16	16	32	150	2	8
20	20	38	150	2	10

903.60.	903.67.
00300	00300
00400	00400
00500	00500
00600	00600
00800	00800
01000	01000
01200	01200
01400	01400
01600	01600
02000.20	02000.20

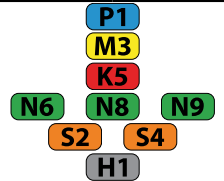
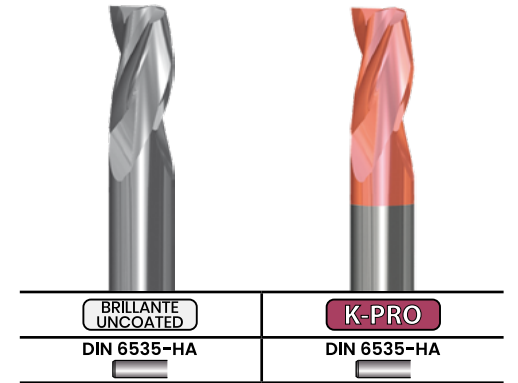
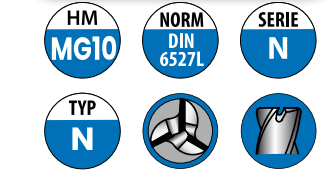
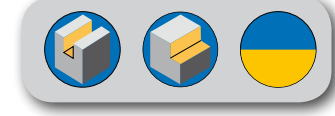
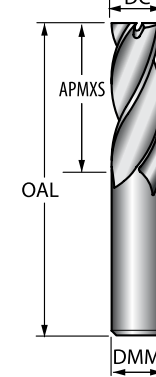
Fresa frontal 3 labios, corta - Corte al centro
 3 flute slot drill, short - Center cut
 Fraise cylindrique en bout, 3 dents, court - Coupe au centre
 Fresa cilindrica frontali, 3 denti, corta - Taglio al centro
 Langlochfräser, 3 Schneiden, kurz - Zentrumsschnitt
 Фреза 3-х зубая концевая с торцовой режущей частью, короткая серия



302.60.	302.67.
00200	00200
00300	00300
00400	00400
00500	00500
00600	00600
00700	00700
00800	00800
00900	00900
01000	01000
01200	01200
01400	01400
01600	01600
01800	01800
02000.20	02000.20

DC	DMM	APMXS	OAL	PCEDC
e8	h6			
2	3	3	38	3
3	3	4	38	3
4	6	5	54	3
5	6	6	54	3
6	6	7	54	3
7	8	8	58	3
8	8	9	58	3
9	10	10	66	3
10	10	11	66	3
12	12	12	73	3
14	14	14	75	3
16	16	16	82	3
18	18	18	84	3
20	20	20	92	3

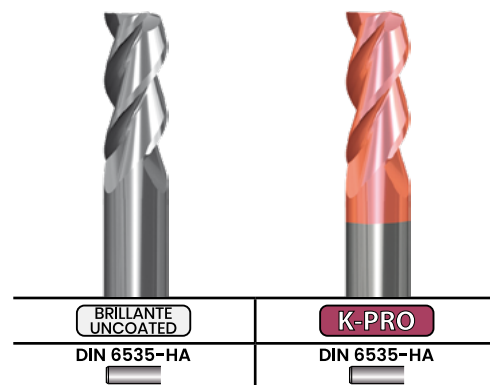
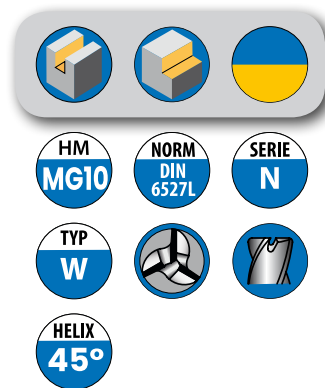
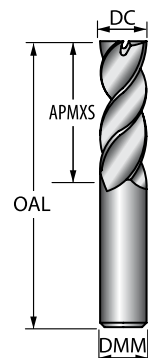
Fresa frontal, 3 labios - Corte al centro
 3 flute slot drill - Center cut
 Fraise cylindrique en bout, 3 dents - Coupe au centre
 Fresa cilindrica frontali, 3 denti - Taglio al centro
 Langlochfräser, 3 Schneiden - Zentrumsschnitt
 Фреза 3-х зубая концевая с торцовой режущей частью



DC	DMM	APMXS	OAL	PCEDC
h10	h6			
2	3	6	38	3
2,5	3	8	38	3
3	3	7	38	3
3	6	7	57	3
3,5	4	12	40	3
4	4	8	50	3
4	6	8	57	3
4,5	5	14	50	3
5	5	10	50	3
5	6	10	57	3
6	6	10	57	3
7	7	20	60	3
8	8	16	63	3
9	9	20	60	3
10	10	19	72	3
12	12	22	83	3
14	14	22	83	3
16	16	26	92	3
18	18	26	92	3
20	20	32	104	3

303.60.	303.62.
00200	00200
00250	00250
00300	00300
00300.06	00300.06
00350	00350
00400	00400
00400.06	00400.06
00450	00450
00500	00500
00500.06	00500.06
00600	00600
00700	00700
00800	00800
00900	00900
01000	01000
01200	01200
01400	01400
01600	01600
01800	01800
02000.20	02000.20

Fresa frontal, 3 labios, 45° - Corte al centro
3 flute slot drill, 45° - Center cut
Fraise cylindrique en bout, 3 dents, 45° - Coupe au centre
Fresa cilindrica frontal, 3 denti, 45° - Taglio al centro
Langlochfräser, 3 Schneiden, 45° - Zentrumsschnitt
Фреза 3-х зубья концевая с торцовой режущей частью, угол подъема спирали 45 град



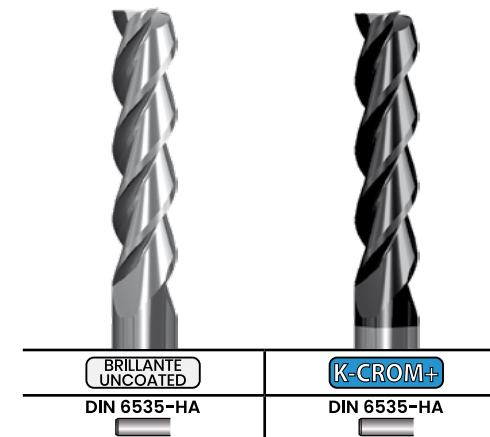
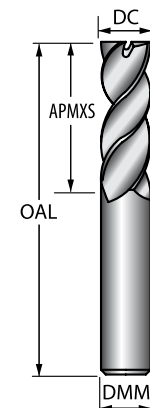
M3

N7 N8
S2 S4

402.60.	402.62.
00300	00300
00300.06	00300.06
00400	00400
00400.06	00400.06
00500	00500
00500.06	00500.06
00600	00600
00700	00700
00800	00800
00900	00900
01000	01000
01200	01200
01400	01400
01600	01600
01800	01800
02000.20	02000.20

DC	DMM	APMXS	OAL	PCEDC
e8	h6			
3	3	8	38	3
3	6	8	57	3
4	4	11	50	3
4	6	11	57	3
5	5	13	50	3
5	6	13	57	3
6	6	13	57	3
7	7	20	60	3
8	8	19	63	3
9	9	20	60	3
10	10	22	72	3
12	12	26	83	3
14	14	26	83	3
16	16	32	92	3
18	18	32	92	3
20	20	38	104	3

Fresa frontal, 3 labios, 45°, larga - Corte al centro
3 flute slot drill, 45°, long - Center cut
Fraise cylindrique en bout, 3 dents, 45°, longue - Coupe au centre
Fresa cilindrica frontal, 3 denti, 45°, lunga - Taglio al centro
Langlochfräser, 3 Schneiden, 45°, lang - Zentrumsschnitt
Фреза 3-х зубья концевая с торцовой режущей частью, угол подъема спирали 45 град, длинная серия



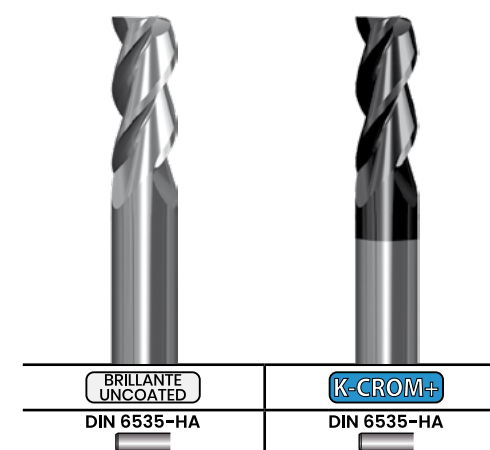
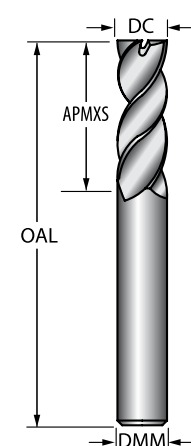
M3

N7 N8
S2

DC	DMM	APMXS	OAL	PCEDC
h10	h6			
3	3	30	60	3
4	4	30	60	3
5	5	35	70	3
6	6	40	100	3
8	8	40	100	3
10	10	50	100	3
12	12	50	100	3
14	14	50	100	3
16	16	50	100	3
18	18	50	100	3
20	20	50	100	3

403.60.	403.67.
00300	00300
00400	00400
00500	00500
00600	00600
00800	00800
01000	01000
01200	01200
01400	01400
01600	01600
01800	01800
02000.20	02000.20

Fresa frontal, 3 labios, 45°, extra larga - Corte al centro
3 flute end mill, 45°, extra long - Center cut
Fraise cylindrique en bout, 45°, 3 dents, extra longue - Coupe au centre
Fresa cilindrica frontal, 45°, 3 denti, extra lunga - Taglio al centro
Schaftfräser, 45°, 3 Schneiden, extra lang - Zentrumsschnitt
Фреза 3-х зубья концевая с торцовой режущей частью, экстрадлинная серия



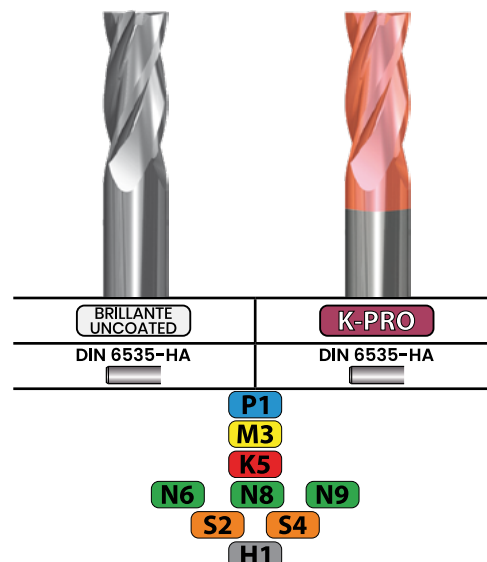
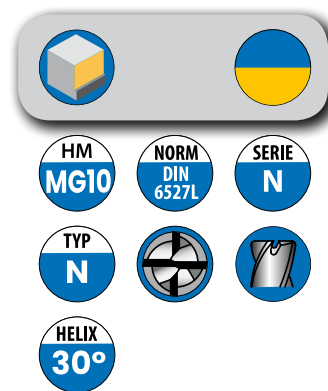
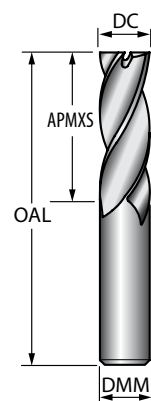
M3

N7 N8
S2

DC	DMM	APMXS	OAL	PCEDC
h10	h6			
3	3	10	75	3
4	4	11	100	3
5	5	13	100	3
6	6	13	150	3
8	8	19	150	3
10	10	22	150	3
12	12	26	150	3
14	14	26	150	3
16	16	32	150	3
20	20	38	150	3

404.60.	404.67.
00300	00300
00400	00400
00500	00500
00600	00600
00800	00800
01000	01000
01200	01200
01400	01400
01600	01600
02000.20	02000.20

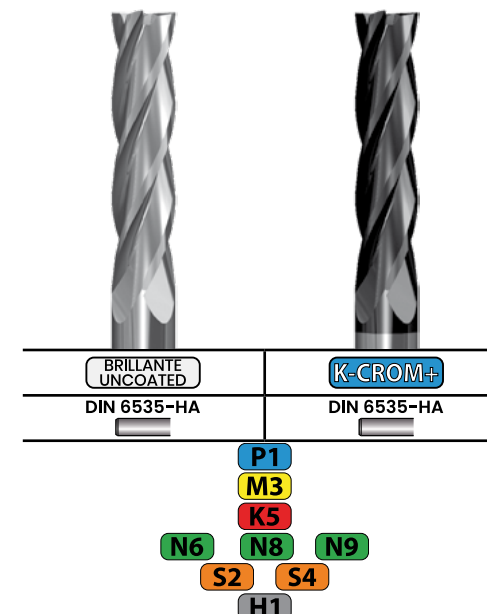
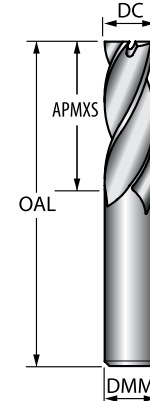
Fresa frontal, 4 labios - Corte al centro
4 flute end mill - Center cut
Fraise cylindrique en bout, 4 dents - Coupe au centre
Fresa cilindrica frontal, 4 denti - Taglio al centro
Schافتfräser, 4 Schneiden - Zentrumsschnitt
Фреза 4-х зубая концевая с торцовой режущей частью



DC	DMM	APMXS	OAL	PCEDC
h10	h6			
2	3	7	38	4
2,5	3	8	38	4
3	3	8	38	4
3	6	8	57	4
3,5	4	12	40	4
4	4	11	50	4
4	6	11	57	4
4,5	5	14	50	4
5	5	13	50	4
5	6	13	57	4
6	6	13	57	4
7	7	20	60	4
8	8	19	63	4
9	9	20	60	4
10	10	22	72	4
12	12	26	83	4
14	14	26	83	4
16	16	32	92	4
18	18	32	92	4
20	20	38	104	4

DC	DMM	APMXS	OAL	PCEDC
h10	h6			
3	3	30	60	4
4	4	30	60	4
5	5	35	70	4
6	6	40	100	4
8	8	40	100	4
10	10	50	100	4
12	12	50	100	4
14	14	50	100	4
16	16	50	100	4
18	18	50	100	4
20	20	50	100	4

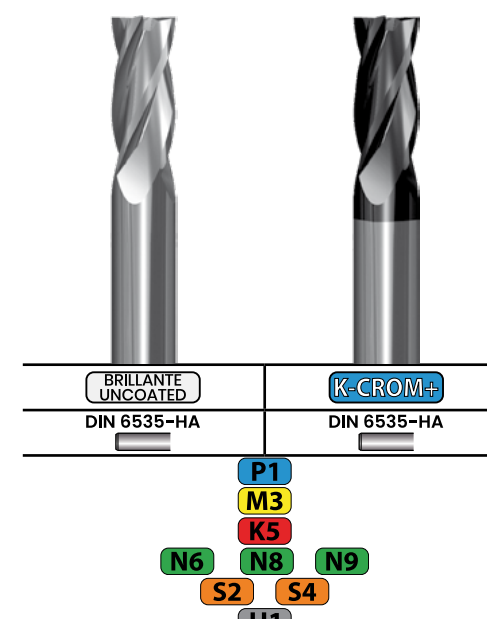
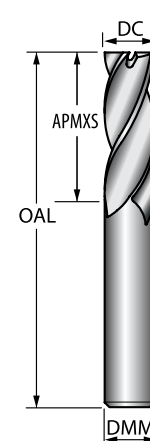
Fresa frontal, 4 labios, larga - Corte al centro
4 flute end mill, long - Center cut
Fraise cylindrique en bout, 4 dents, longue - Coupe au centre
Fresa cilindrica frontal, 4 denti, lunga - Taglio al centro
Langlochfräser, 4-Schneiden, lang - Zentrumsschnitt
Фреза 4-х зубая концевая с торцовой режущей частью, длинная серия



DC	DMM	APMXS	OAL	PCEDC
h10	h6			
3	3	30	60	4
4	4	30	60	4
5	5	35	70	4
6	6	40	100	4
8	8	40	100	4
10	10	50	100	4
12	12	50	100	4
14	14	50	100	4
16	16	50	100	4
18	18	50	100	4
20	20	50	100	4

DC	DMM	APMXS	OAL	PCEDC
h10	h6			
3	3	30	60	4
4	4	30	60	4
5	5	35	70	4
6	6	40	100	4
8	8	40	100	4
10	10	50	100	4
12	12	50	100	4
14	14	50	100	4
16	16	50	100	4
18	18	50	100	4
20	20	50	100	4

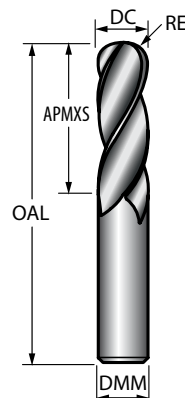
Fresa frontal, 4 labios, extra larga - Corte al centro
4 flute end mill, extra long - Center cut
Fraise cylindrique en bout, 4 dents, extra longue - Coupe au centre
Fresa cilindrica frontal, 4 denti, extra lunga - Taglio al centro
Schافتfräser, 4 Schneiden, extra lang - Zentrumsschnitt
Фреза 4-х зубая концевая с торцовой режущей частью, экстрадлинная серия



DC	DMM	APMXS	OAL	PCEDC
h10	h6			
3	3	10	75	4
4	4	11	100	4
5	5	13	100	4
6	6	13	150	4
8	8	19	150	4
10	10	22	150	4
12	12	26	150	4
14	14	26	150	4
16	16	32	150	4
20	20	38	150	4

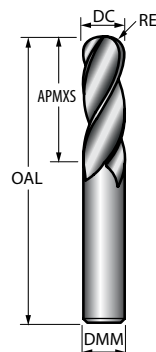
DC	DMM	APMXS	OAL	PCEDC
h10	h6			
3	3	10	75	4
4	4	11	100	4
5	5	13	100	4
6	6	13	150	4
8	8	19	150	4
10	10	22	150	4
12	12	26	150	4
14	14	26	150	4
16	16	32	150	4
20	20	38	150	4

Fresa frontal punta semiesférica, 4 labios
4 flute ball nose end mill
Fraise cylindrique à bout hémisphérique, 4 dents
Fresa cilindrica frontali a testa semisferica, 4 denti
Kugelfräser, 4 Schneiden
Фреза 4-х зубая с полусферическим торцом

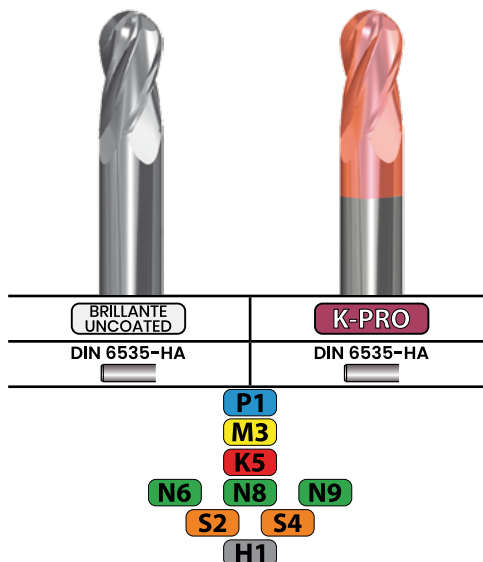


DC	DMM	APMXS	OAL	PCEDC	RE
h9	h6				±0,02
4	4	12	40	4	2
5	5	14	50	4	2,5
6	6	16	50	4	3
7	7	20	60	4	3,5
8	8	20	60	4	4
9	9	20	60	4	4,5
10	10	22	70	4	5
12	12	22	75	4	6
14	14	25	75	4	7
16	16	25	75	4	8
18	18	32	100	4	9
20	20	32	100	4	10

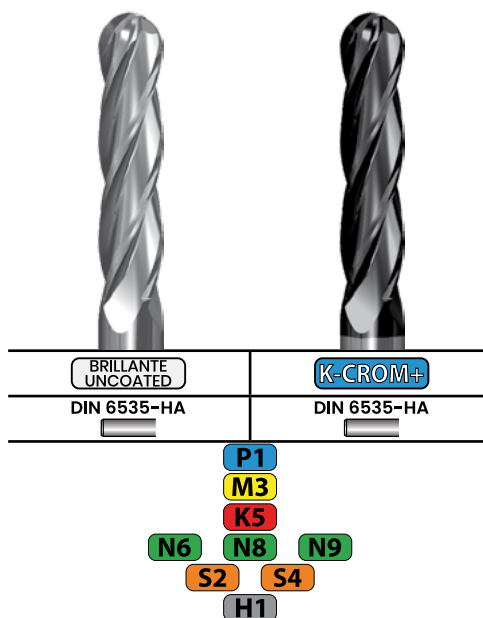
Fresa frontal punta semiesférica, 4 labios, larga
4 flute ball nose end mill, long
Fraise cylindrique à bout hémisphérique, 4 dents, longue
Fresa cilindrica frontali a testa semisferica, 4 denti, lunga
Kugelfräser, 4 Schneiden, lang
Фреза 4-х зубая с полусферическим торцом, длинная



DC	DMM	APMXS	OAL	PCEDC	RE
h9	h6				±0,02
4	4	30	60	4	2
5	5	35	70	4	2,5
6	6	40	100	4	3
8	8	40	100	4	4
10	10	50	100	4	5
12	12	50	100	4	6
14	14	50	100	4	7
16	16	50	100	4	8
18	18	50	100	4	9
20	20	50	100	4	10

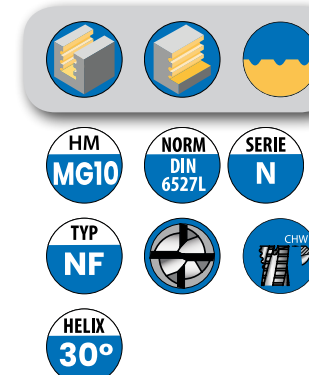
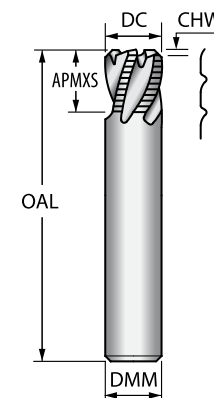


1901.60.	1901.62.
00400	00400
00500	00500
00600	00600
00700	00700
00800	00800
00900	00900
01000	01000
01200	01200
01400	01400
01600	01600
01800	01800
02000.20	02000.20

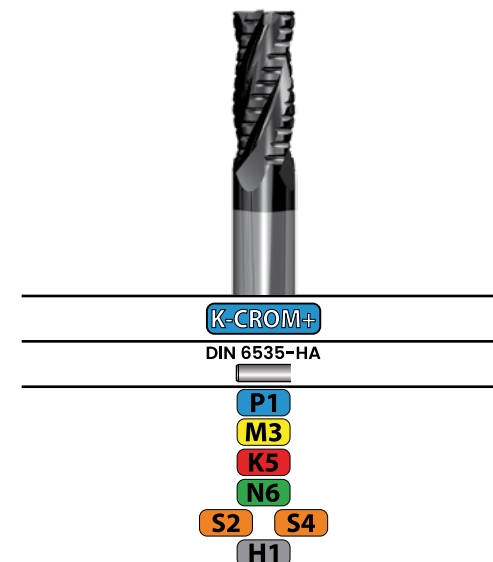


1902.60.	1902.67.
00400	00400
00500	00500
00600	00600
00800	00800
01000	01000
01200	01200
01400	01400
01600	01600
01800	01800
02000.20	02000.20

Fresa frontal, de semidesbaste – Corte al centro
Semi-roughing end mill – Center cut
Fraise cylindrique en bout, semi-finition – Coupe au centre
Fresa cilindrica frontali, per semi-sgrossatura – Taglio al centro
Schrupfräser mit Schlichtprofil – Zentrumsschnitt
Фреза получерновая с торцовой режущей частью

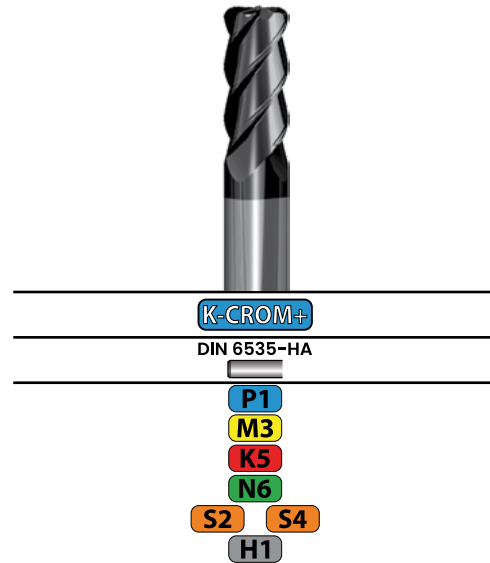
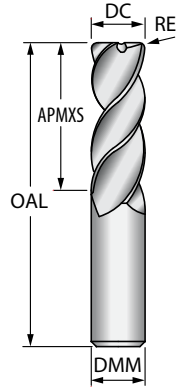


DC	DMM	APMXS	OAL	PCEDC	CHW
h10	h6				45°
6	6	13	57	4	0,3
8	8	19	63	4	0,3
10	10	22	72	4	0,3
12	12	26	83	4	0,4
16	16	32	92	4	0,5
20	20	38	104	4	0,5



1208.67.
00600
00800
01000
01200
01600
02000.20

Fresa frontal, 4 labios, con radio en la esquina - Corte al centro
4 flute corner radius end mill - Center cut
Fraise cylindrique en bout, 4 dents, avec rayon d'angle - Coupe au centre
Fresa cilindrica frontali, 4 denti, con raggio di spigolo - Taglio al centro
Langlochfräser, 4 Schneiden, mit Eckenradius - Zentrumsschnitt
Фреза 4-х зубая концевая радиусная

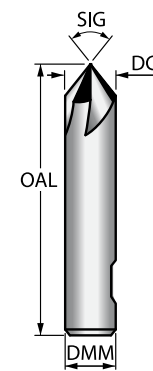


DC	DMM	APMXS	OAL	PCEDC	RE
h10	h6				±0,02
2	3	7	38	4	0,1
3	3	8	38	4	0,1
3	3	8	38	4	0,2
3	3	8	38	4	0,5
4	6	11	57	4	0,1
4	6	11	57	4	0,2
4	6	11	57	4	0,5
4	6	11	57	4	1
5	6	13	57	4	0,1
5	6	13	57	4	0,2
5	6	13	57	4	0,5
5	6	13	57	4	0,8
6	6	13	57	4	0,1
6	6	13	57	4	0,2
6	6	13	57	4	0,5
6	6	13	57	4	0,8
6	6	13	57	4	1
6	6	13	57	4	2
8	8	19	63	4	0,1
8	8	19	63	4	0,2
8	8	19	63	4	0,5
8	8	19	63	4	0,8
8	8	19	63	4	1
8	8	19	63	4	1,5
8	8	19	63	4	2
8	8	19	63	4	2,5
8	8	19	63	4	3
10	10	22	72	4	0,15
10	10	22	72	4	0,5
10	10	22	72	4	0,8
10	10	22	72	4	1
10	10	22	72	4	1,5
10	10	22	72	4	2
10	10	22	72	4	2,5
10	10	22	72	4	3
10	10	22	72	4	4

DC	DMM	APMXS	OAL	PCEDC	RE
h10	h6				±0,02
12	12	26	83	4	0,15
12	12	26	83	4	0,5
12	12	26	83	4	0,8
12	12	26	83	4	1
12	12	26	83	4	1,5
12	12	26	83	4	2
12	12	26	83	4	2,5
12	12	26	83	4	3
12	12	26	83	4	4
16	16	32	92	4	0,15
16	16	32	92	4	0,5
16	16	32	92	4	0,8
16	16	32	92	4	1
16	16	32	92	4	1,2
16	16	32	92	4	1,5
16	16	32	92	4	1,8
16	16	32	92	4	2
16	16	32	92	4	2,5
16	16	32	92	4	3
16	16	32	92	4	5
20	20	38	104	4	0,15
20	20	38	104	4	0,5
20	20	38	104	4	0,8
20	20	38	104	4	1
20	20	38	104	4	1,2
20	20	38	104	4	1,5
20	20	38	104	4	2
20	20	38	104	4	2,5
20	20	38	104	4	3
20	20	38	104	4	4
20	20	38	104	4	4,5
20	20	38	104	4	5
20	20	38	104	4	5,5
20	20	38	104	4	6

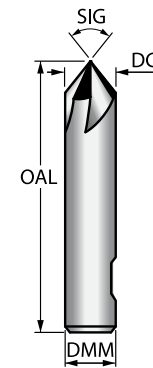
DC	DMM	APMXS	OAL	PCEDC	RE
h10	h6				±0,02
12	12	26	83	4	0,15
12	12	26	83	4	0,5
12	12	26	83	4	0,8
12	12	26	83	4	1
12	12	26	83	4	1,5
12	12	26	83	4	2
12	12	26	83	4	2,5
12	12	26	83	4	3
12	12	26	83	4	4
16	16	32	92	4	0,15
16	16	32	92	4	0,5
16	16	32	92	4	0,8
16	16	32	92	4	1
16	16	32	92	4	1,2
16	16	32	92	4	1,5
16	16	32	92	4	1,8
16	16	32	92	4	2
16	16	32	92	4	2,5
16	16	32	92	4	3
16	16	32	92	4	4
16	16	32	92	4	5
20	20	38	104	4	0,15
20	20	38	104	4	0,5
20	20	38	104	4	0,8
20	20	38	104	4	1
20	20	38	104	4	1,2
20	20	38	104	4	1,5
20	20	38	104	4	2
20	20	38	104	4	2,5
20	20	38	104	4	3
20	20	38	104	4	4
20	20	38	104	4	4,5
20	20	38	104	4	5
20	20	38	104	4	5,5
20	20	38	104	4	6

Fresa para chaflanar 60°
Countersinker 60°
Chamfrein 60°
Svasatore 60°
Kegelsenker 60°
Зенкер 60°

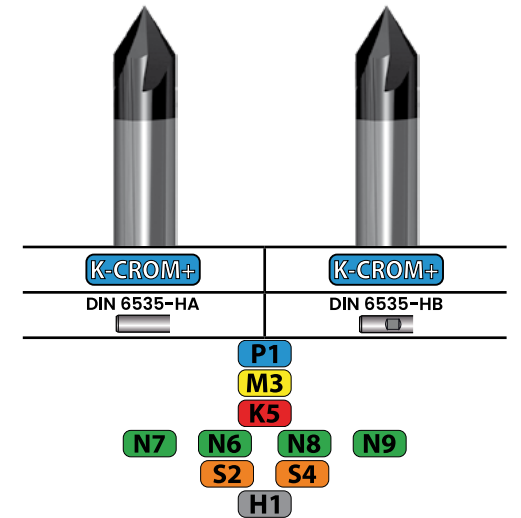


DC	DMM	SIG	OAL	PCEDC
	h6	±15'		
4	4	60°	54	4
6	6	60°	57	4
8	8	60°	63	4
10	10	60°	72	4
12	12	60°	83	4

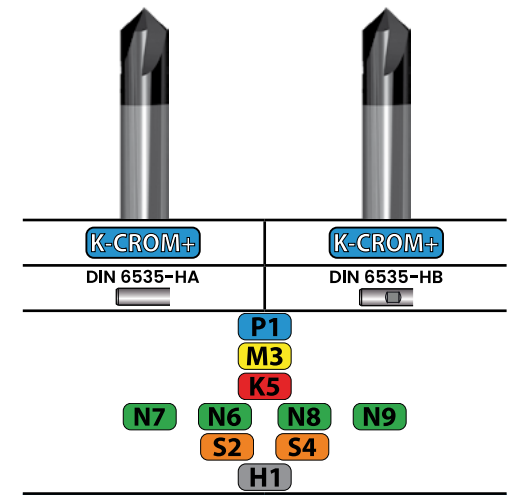
Fresa para chaflanar 90°
Countersinker 90°
Chamfrein 90°
Svasatore 90°
Kegelsenker 90°
Зенкер 90°



DC	DMM	SIG	OAL	PCEDC
	h6	±15'		
4	4	90°	54	4
6	6	90°	57	4
8	8	90°	63	4
10	10	90°	72	4
12	12	90°	83	4
16	16	90°	92	4

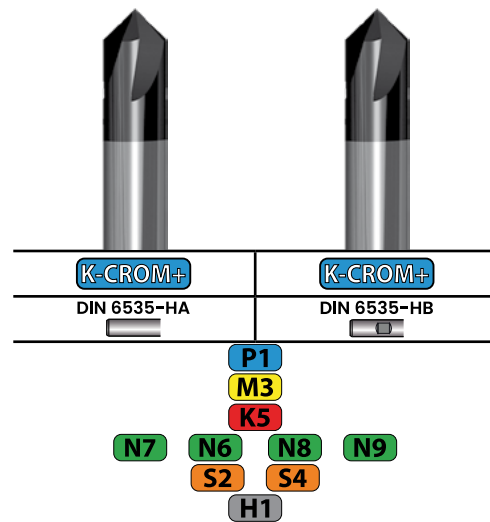
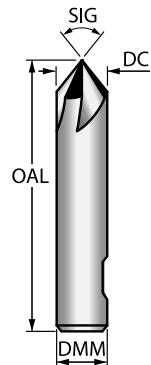


DC	DMM	SIG	OAL	PCEDC
	h6	±15'		
4	4	60°	54	4
6	6	60°	57	4
8	8	60°	63	4
10	10	60°	72	4
12	12	60°	83	4



DC	DMM	SIG	OAL	PCEDC
	h6	±15'		
4	4	90°	54	4
6	6	90°	57	4
8	8	90°	63	4
10	10	90°	72	4
12	12	90°	83	4
16	16	90°	92	4

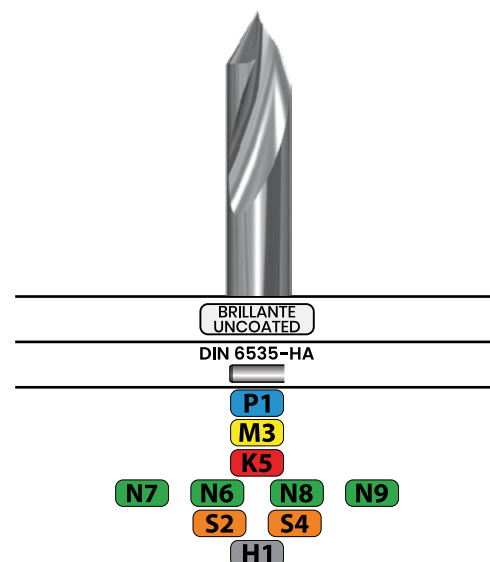
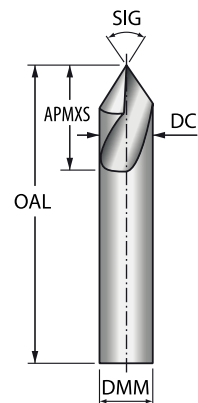
Fresa para chaflanar 100°
Countersinker 100°
Chamfrein 100°
Svasatore 100°
Kegelsenker 100°
Зенкер 100°



DC	DMM	SIG	OAL	PCEDC
	h6	±15'		
6	8	100°	63	4
8	10	100°	72	4
10	12	100°	83	4
12	14	100°	83	4
14	14	100°	83	4
16	16	100°	92	4
20	20	100°	104	4

C400.67.	C440.67.
00600	00600
00800	00800
01000	01000
01200	01200
01400	
01600	01600
02000	02000

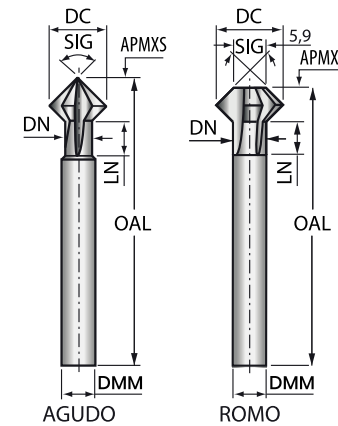
Fresa de grabar
Engraving end mill
Fraise à gravure
Frese per incisione
Fräser für graviert
Фреза гравировальная



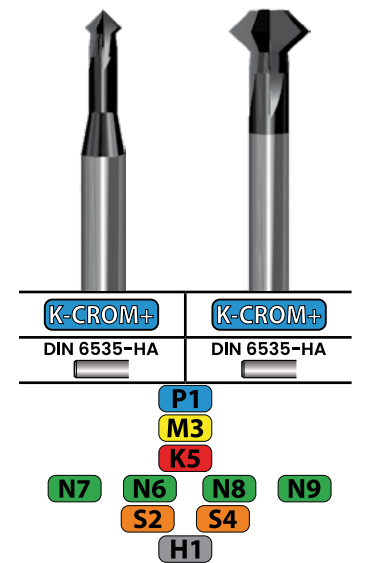
DC	DMM	SIG	APMXS	OAL	PCEDC
	h6	± 15'			
3	3	60°	15	50	1
4	4	60°	18	50	1
6	6	60°	20	54	1

C106.60.
00300
00400
00600

Fresa de desbarbado en los dos sentidos
Forward and backward burr remover
Fraise pour ébavurage avant et en arrière
Fresa per sbavatura e indietro
Fräser für Vor- und Rückwärtsentgrater
Фреза двухсторонняя фасочная

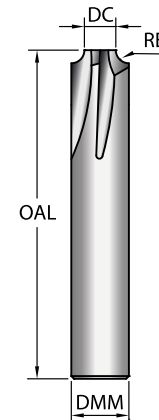


DC	DMM	SIG	APMXS	OAL	PCEDC	DN	LN	TYPE	TYPE
	h6	± 15'							
3	4	90°	2	75	4	2,2	10	AGUDO	
4	4	90°	2,7	75	4	2,9	13	AGUDO	
5	5	90°	3	75	4	3,9	15	AGUDO	
6	6	90°	4	100	4	3,9	15	AGUDO	
8	6	90°	2	100	4				ROMO
10	6	90°	4	100	4				ROMO
12	6	90°	6	100	4				ROMO

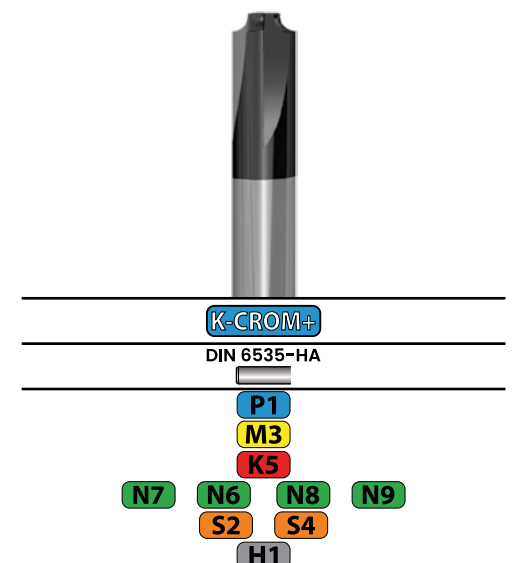


D409.67.	D409.67.
00300	
00400	
00500	
00600	
	00800
	01000
	01200

Fresa para redondeado de aristas
Corner rounding end mill
Fraise pour les bords arrondis
Fresa frontali per bordi arrotondati
Ecken-Runden Schneider
Фреза с вогнутым радиусом



DC	DMM	OAL	PCEDC	RE
h10	h6			±0,01
5,4	6	57	4	0,3
5,2	6	57	4	0,4
5	6	57	4	0,5
6,8	8	63	4	0,6
6,4	8	63	4	0,8
6	8	63	4	1
7	10	72	4	1,5
6	10	72	4	2
7	12	83	4	2,5
6	12	83	4	3
9	16	92	4	3,5
8	16	92	4	4
11	20	104	4	4,5
10	20	104	4	5



RC01.67.
00540.0003
00520.0004
00500.0005
00680.0006
00640.0008
00600.0010
00700.0015
00600.0020
00700.0025
00600.0030
00900.0035
00800.0040
01100.0045
01000.0050

