SOF
OUTILLAGE

MOM

MINEO Outillages & Machines
BP:49 - rue Charles Longuet – Parc d'activité Le Brasseur – 59690 Vieux-Condé (FRANCE)
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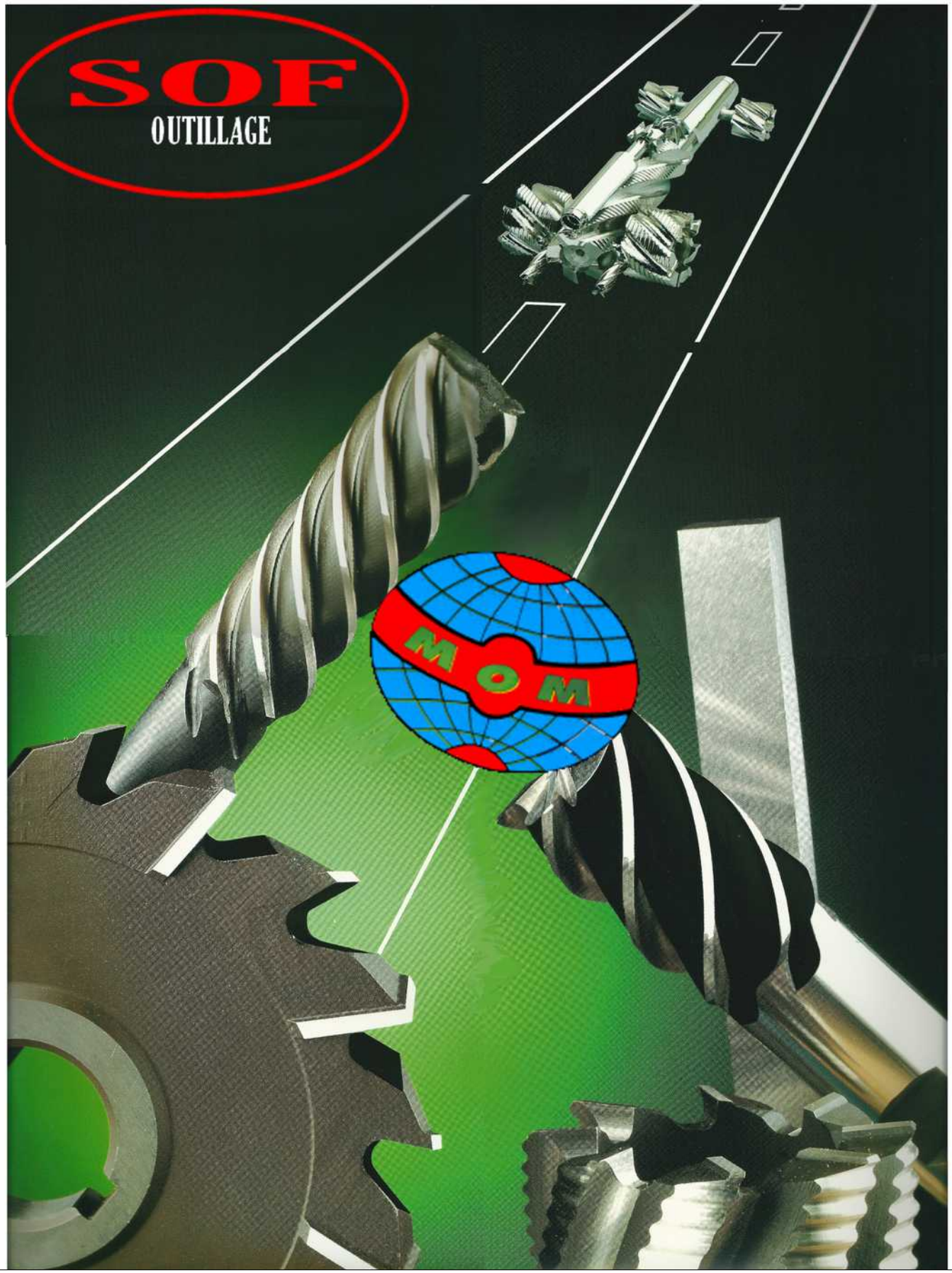

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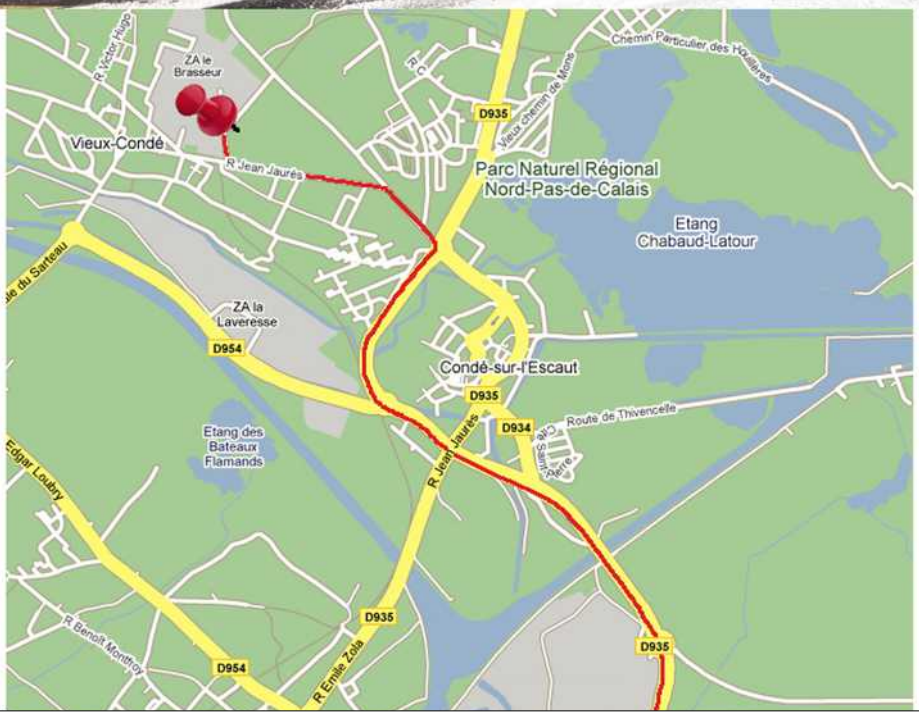

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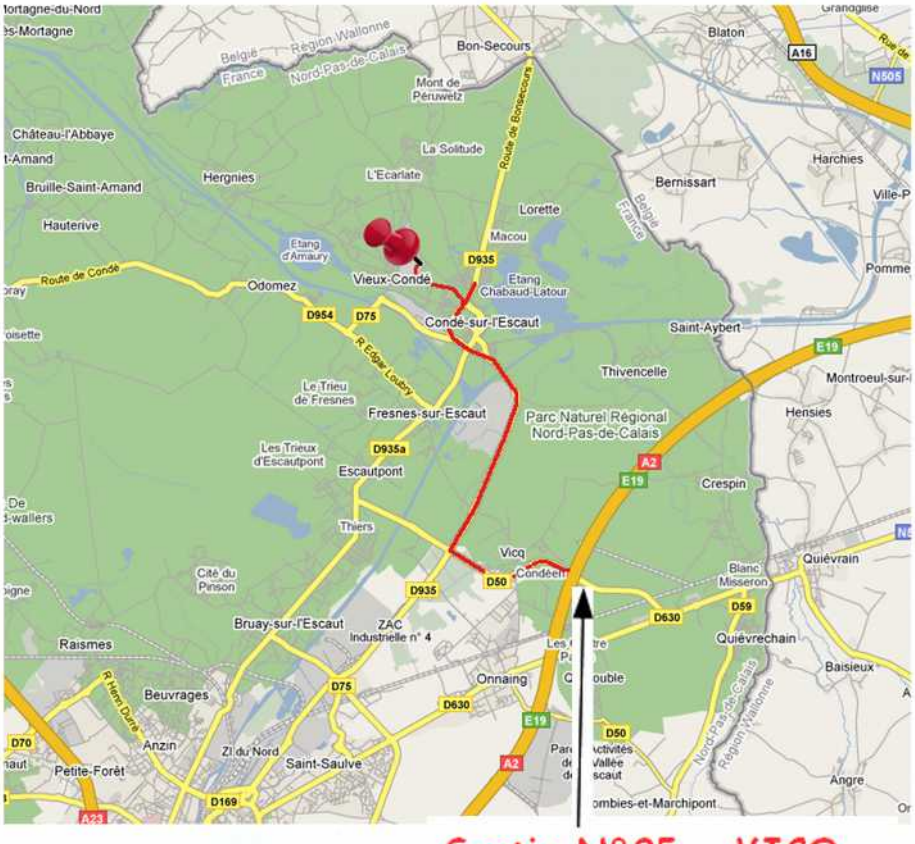
Comment venir chez nous ?



Sortie N°25 - VICQ

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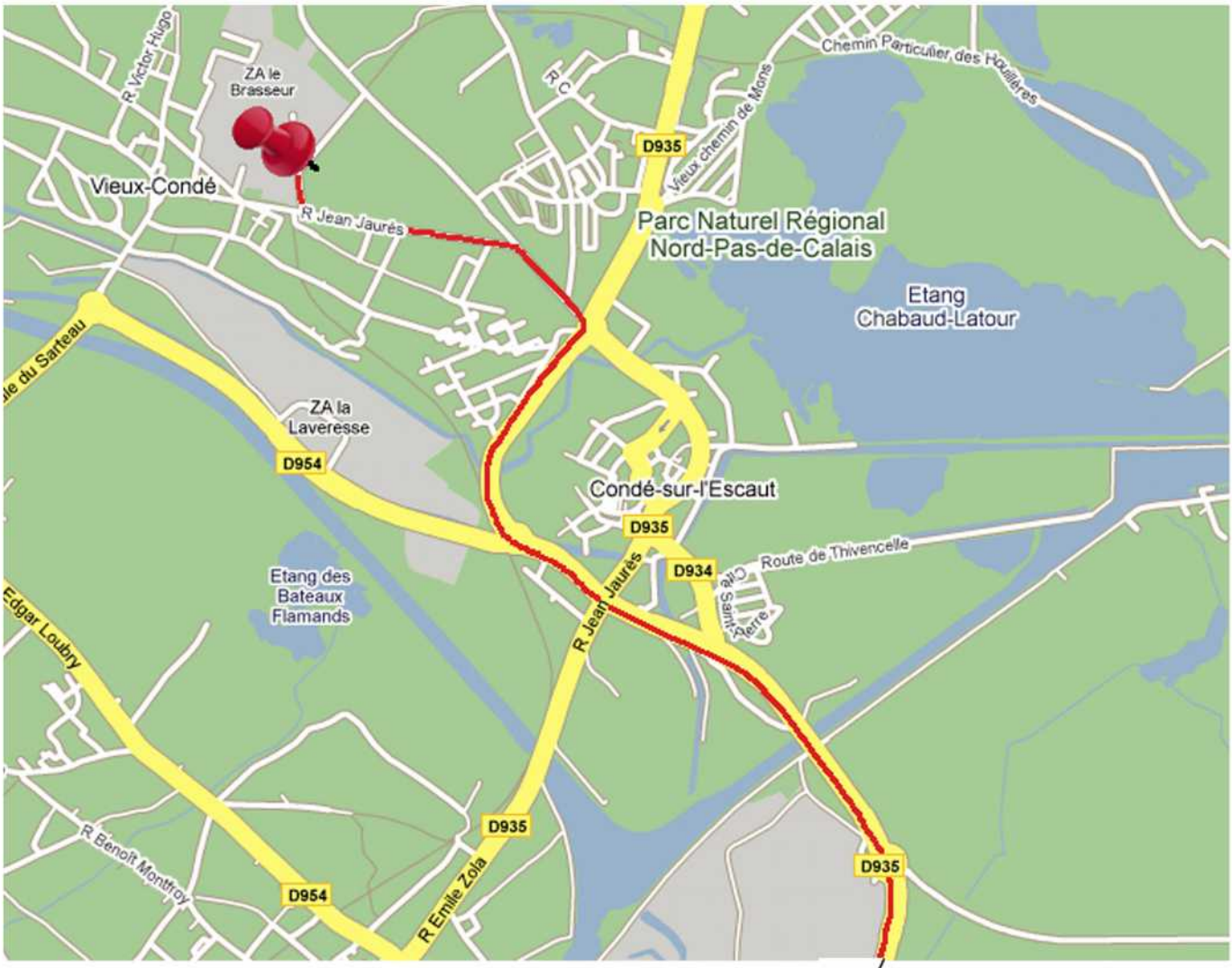
SOF
OUTILLAGE

MOM

Comment venir chez nous ?



vers autoroute A2 - E19
Sortie N°25 - VICQ

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SOF
OUTILLAGE

MOM

Outils Carbure
FRAISES À QUEUE CYLINDRIQUE / END MILLS WITH STRAIGHT SHANK / SCHAFTFRÄSER MIT ZYLINDERSCHAFT / FRESAS CON MANGO CILÍNDRICO

Page/Seite/Page/Página 12-29

Queue Cylindrique
FRAISES À QUEUE CYLINDRIQUE / END MILLS WITH STRAIGHT SHANK / SCHAFTFRÄSER MIT ZYLINDERSCHAFT / FRESAS CON MANGO CILÍNDRICO

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Cône Morse
FRAISES À QUEUE CONE MORSE / END MILLS WITH MORSE TAPER / SCHAFTFRÄSER MIT MORSEKEGEL / FRESAS CON CONO MORSE

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Fraises à Trou
FRAISES À ALÉSAGE / END MILLS WITH BORE / FRÄSER MIT BORHUNG / FRESAS CILÍNDRICAS

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Alésoirs à main
ALÉSOIRS A MAIN / HAND REAMER / HANDREIBAHLE / ESCARIADORES DE MANO

Page/Seite/Page/Página 150-161

Alésoirs Machine HSS/HM
ALÉSOIRS MACHINE / MACHINE REAMER / MASCHINENREIBAHLE / ESCARIADORES PARA MÀQUINA

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Barreaux HSS/HM
BARREAUX/TOOL BITS/STAB/CUCHILLAS

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SYMBOLES

SYMBOL•SYMBOL•SÍMBOLO

ACIER A OUTILS
CUTTING MATERIALS/WERKZEUGSTAHL/ACEROS PARA HERRAMIENTAS

	AFNOR	AISI	EN	DIN	
HSS COBA5 COBA8 PM	Z85 WDCV 6-5-4-2	M2	HS 6-5-2	1.3343	
HSS COBA5 COBA8 PM	Z90 WDKCV 6-5-5-4-2	M35	HS 6-5-2-5	1.3243	
HSS COBA5 COBA8 PM	Z110 DKCWV 9-8-4-2-1	M42	HS 2-9-1-8	1.3247	
HSS COBA8 COBA10 ASP60	Z130 WKCDV 10-10-4-4-3		HS 10-4-3-10	1.3207	
COBALU	Z90 WDKCV 6-5-5-4-2	M35	HS 6-5-2-5	1.3243	
COBINOX	Z110 DKCWV 9-8-4-2-1	M42	HS 2-9-1-8	1.3247	
HSS COBA5 COBA8 PM			HS 6-5-3-8		ASP 2030
COBA5 COBA8 COBA10 ASP60			HS 6-7-6-10	1.3241	ASP 2060
HM					K20 K40
HM12					K 30

LONGUEURS
LENGTHS AVAILABLE/LANGENAUSFUHRUNGEN/LONGITUD

SC SN SL SEL	Série courte	Short length	Kurze Baureihe	Seria corta
SC SN SL SEL	Série normale	Standard length	Standardbaureihe	Seria normal
SC SN SL SEL	Série longue	Long length	Lange Baureihe	Seria larga
SC SN SL SEL	Série extra-longue	Extra-long length	Baureihe extra lang	Seria extra-larga

REVETEMENTS
COATING/BESCHICHTUNG/RECUBRIMIENTO

R	Revêtu	Coated	Beschichtung	Recubrimient

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CARACTERISTIQUES
CARACTERISTICS/CHARAKTERISTIK/CARACTERISTÍCAS

	Angle d'hélice : à droite	Helix Angle : Right	Steigungswinkel : Recht	Ángulos de la hélice : Derecha
	Angle d'hélice : à Gauche	Helix Angle : Left	Steigungswinkel : Links	Angulos de la hélice : Izquierda
	Profil plat	Half Finishing	Halbfertig	Semi-Acabado
	Filets ronds - Pas Fin	Thin Pitch	Fein Verzahnung	Paso fino
	Filets ronds	Round Profile	Rund Profil	Redondo Perfil
	Avec coupe au centre	Centre Cutting	Mittenschnitt	Corte en el Centro
	Sans coupe au centre	Without Centre Cutting	Ohne Mittenschnitt	Sin Corte en el Centro
	Tolérances	Tolerances	Toleranz	Tolerancias
	Normes	Standards	Normen	Normas

ATTACHEMENTS
SHANKS/AUFNAHME/FIJACIÕN

	Queue cylindrique	Straight Shank	Zylinderschaft	Mango Cilindríco
	Queue filetée	Threaded Shank	Gewindeschaft	Mango Roscado
	Queue Cylindrique à Méplat	Knuckle	Halbflach	Rebase
	Double méplat	Double Knuckle	Doppelhalbflach	Doble Rebase
	Tenon	Tang	Zapfen	Espiga
	Filetage	Screw thread	Gewinde	Rosca
	Clavette	Keyway	Keil	Chavete

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Fraises Carbure

QUEUE CYLINDRIQUE

→ 2 DENTS QC SN.....page 14

→ 2 DENTS QC SN ALU.....page 15

→ 2 DENTS QC SN HEM.....page 16

→ 2 DENTS QC SN SL .....page 17

→ 3 DENTS QC SN SC .....page 18

→ 3 DENTS QC SN.....page 19

→ 3 DENTS QC SN ALU.....page 20

→ 3 DENTS QC SN INOX .....page 21

→ 3 DENTS QC SN HEM.....page 22

→ 2 TAILLES QC SN .....page 23

→ 2 TAILLES QC SN MULTI-DENTS.....page 24

→ 2 TAILLES QC SL.....page 25

→ 2 TAILLES QC SN .....page 26

Alésoirs machine Carbure

QUEUE CYLINDRIQUE

→ MACHINE QC TH SN.....page 27

QUEUE CONE MORSE

→ MACHINE CM TH SN .....page 28

Barreaux Ronds Carbure

→ ROND SÉRIE NORMALE.....page 29

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SOF
OUTILLAGE

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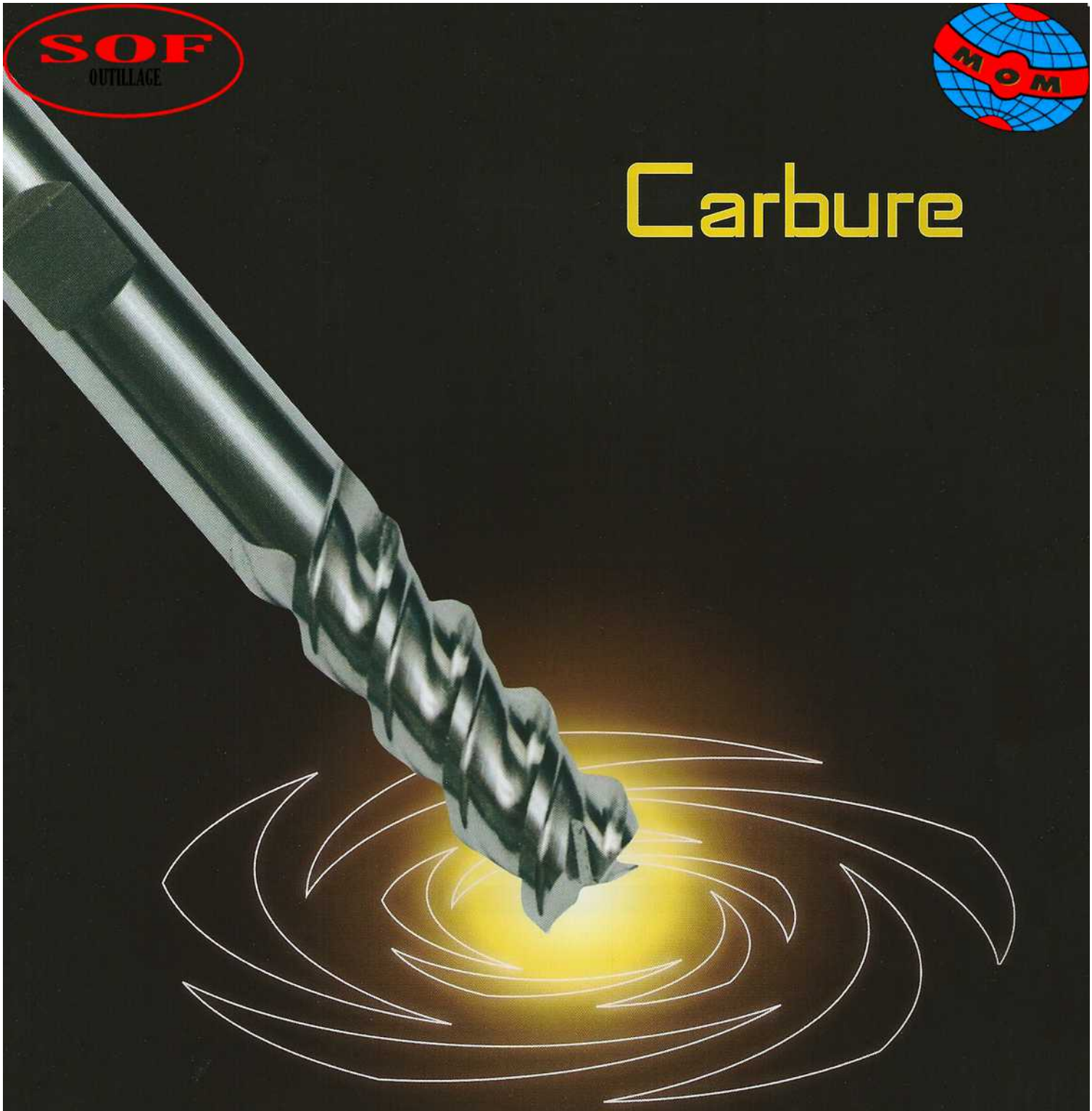
Carbure



_ Carbide
_ Hartmetall
_ Carburo

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12	12	22	83	1FA20042
14	14	22	83	1FA20050
16	16	26	92	1FA20058
18	18	26	92	1FA20060
20	20	32	104	1FA20062

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10	10	19	72	1FA01034
12	12	22	83	1FA01042
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16	16	26	92	1FA01058
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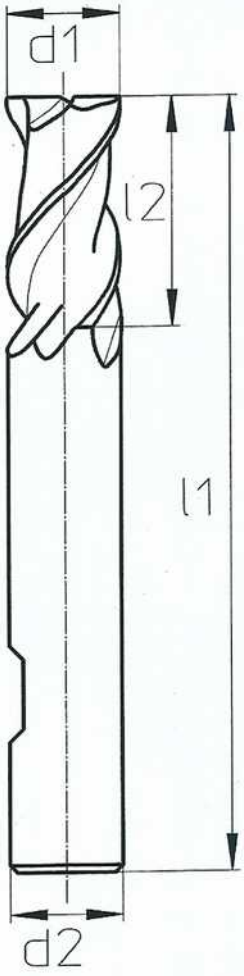

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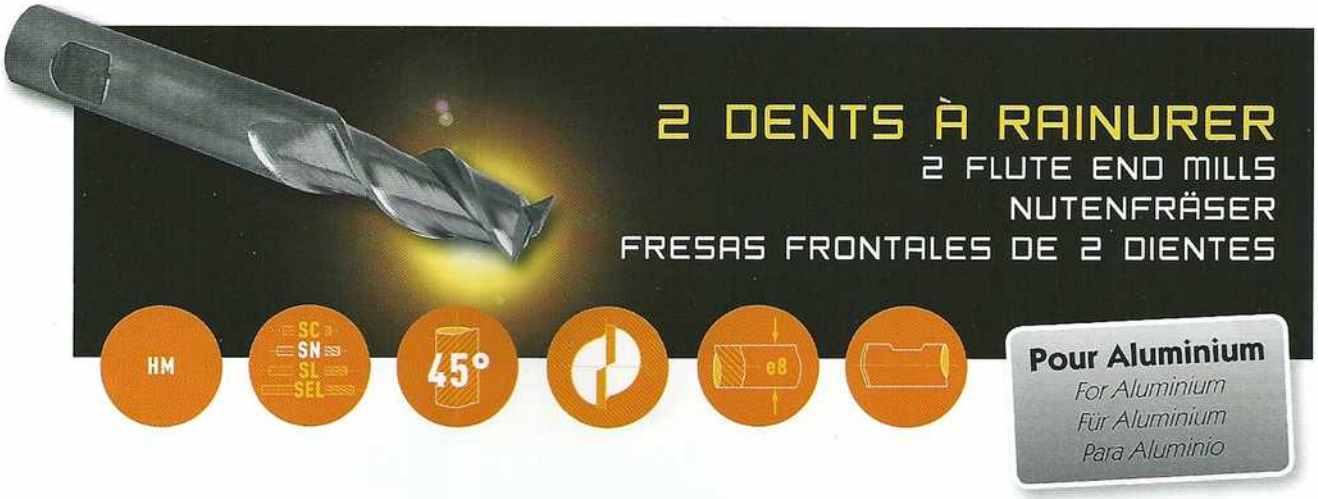

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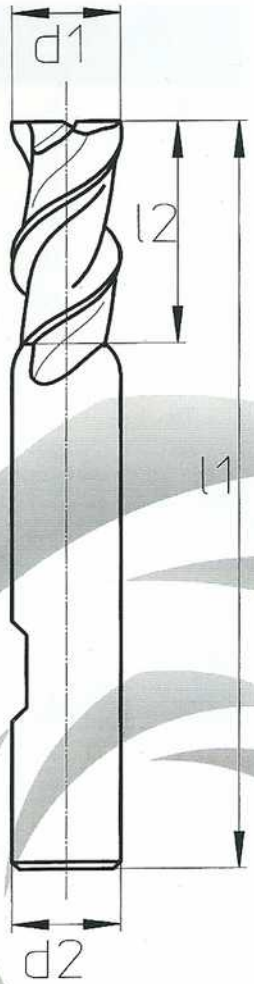
18	18	26	92	1FA19060
20	20	32	104	1FA19062



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12	12	22	83	1FA21042
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18	18	26	92	1FA21060
20	20	32	104	1FA21062

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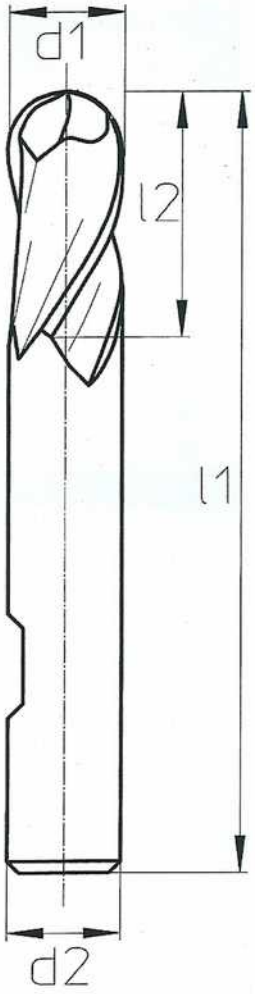

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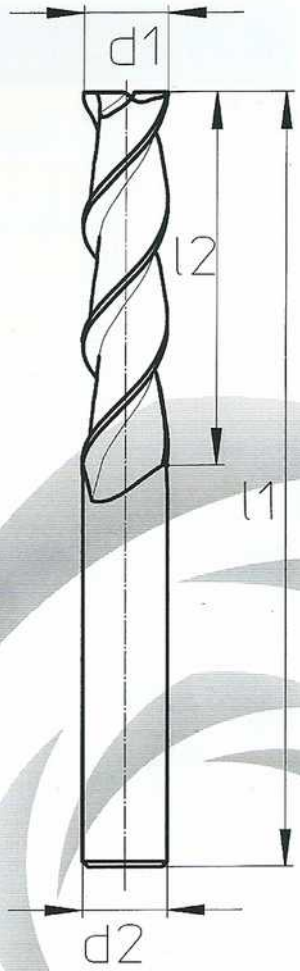

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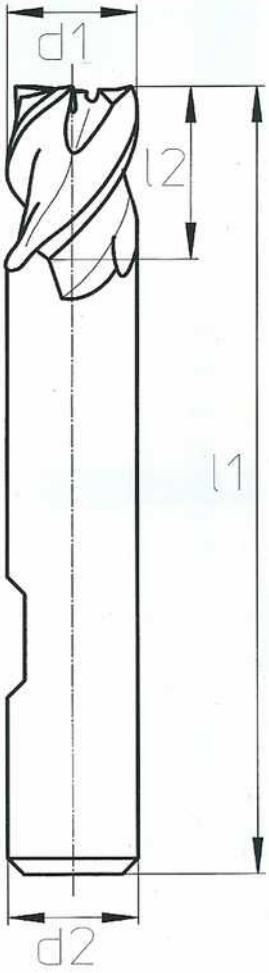

3 DENTS À RAINURER

3 FLUTE END MILLS

SCHNEIDSCHAFTFRÄSER

FRESAS FRONTALES DE 3 DIENTES

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14	14	26	83	1FA15050M	1FA15050
16	16	32	92	1FA15058M	1FA15058
18	18	32	92	1FA15060M	1FA15060
20	20	38	104	1FA15062M	1FA15062

d1	d2	l2	l1	HM code
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6,5	8	16	63	1FA03020
7	8	16	63	1FA03022
8	8	19	63	1FA03026
9	10	19	72	1FA03030
10	10	22	72	1FA03034
12	12	26	83	1FA03042
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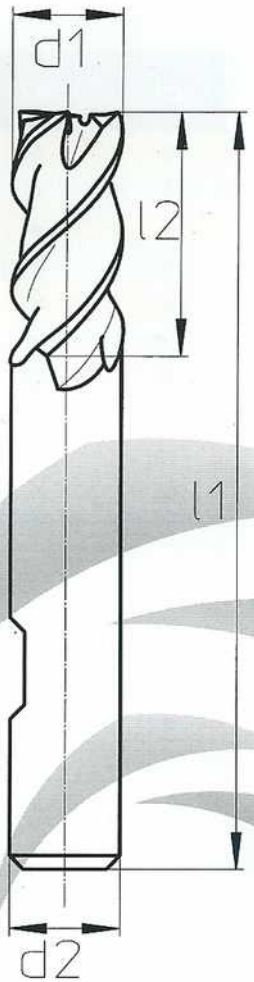

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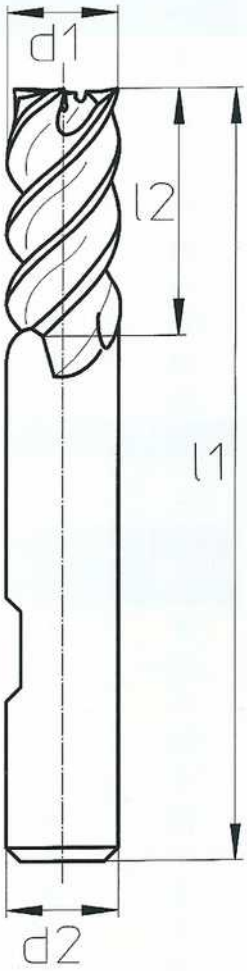

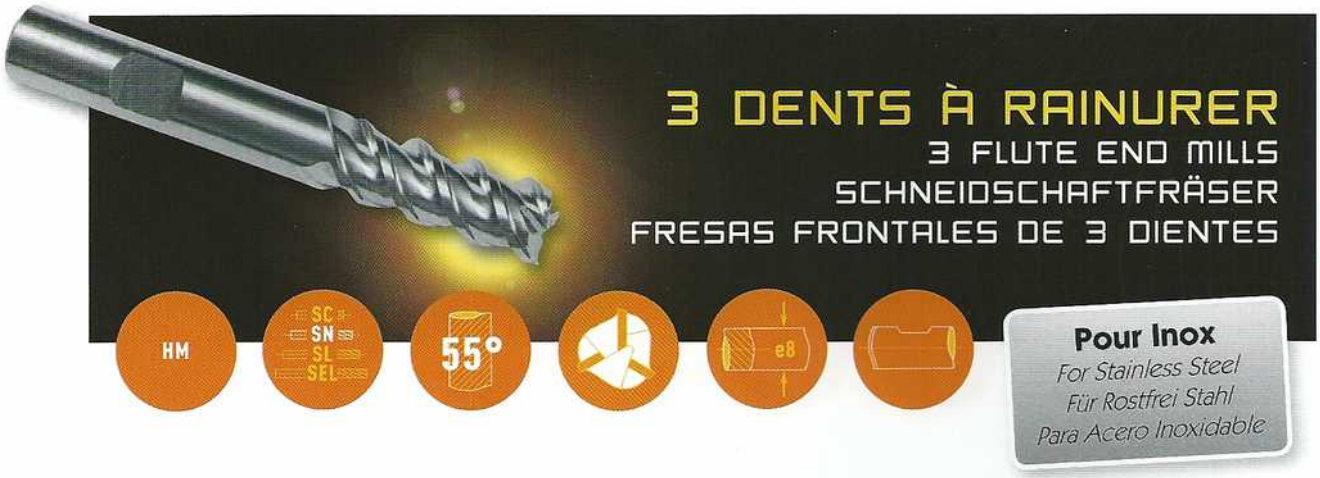

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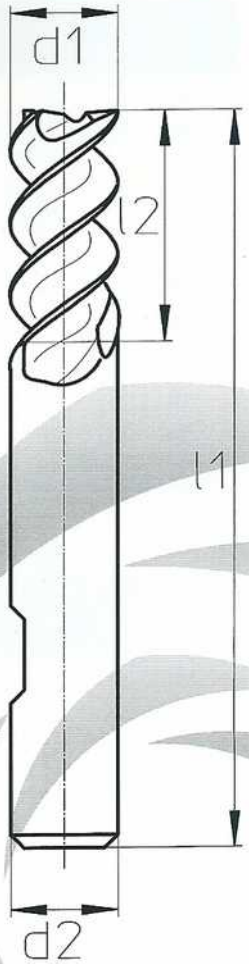

3 DENTS À RAINURER

3 FLUTE END MILLS

SCHNEIDSCHAFTFRÄSER

FRESAS FRONTALES DE 3 DIENTES

HM | SC SN SL SEL | 30° | e8 | R

Bout Hémisphérique

Ball end

Radiusschaftfräser

Punto Hemisférico

d1	d2	l2	l1	HM R code	HM code
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5	6	13	57	1FA12014M	1FA12014
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16	16	32	92	1FA12058M	1FA12058
18	18	32	92	1FA12060M	1FA12060
20	20	38	104	1FA12062M	1FA12062

d1	d2	l2	l1	HM code
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12	12	26	83	1FA11042
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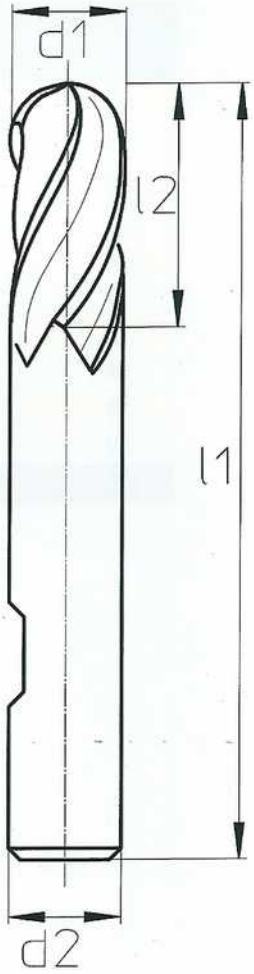

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8	8	19	63	4	1FA05012M	1FA05012
10	10	22	72	4	1FA05014M	1FA05014
12	12	26	83	4	1FA05016M	1FA05016
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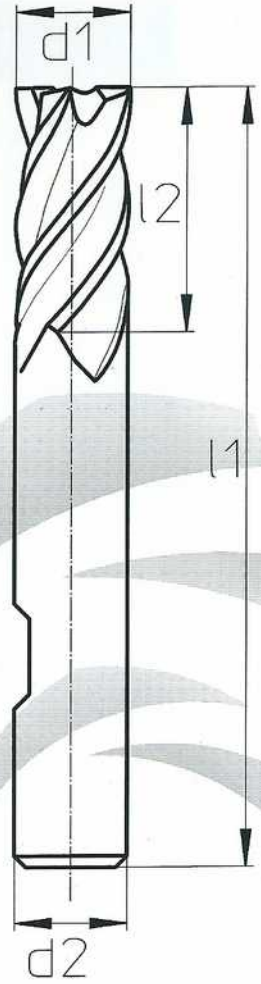
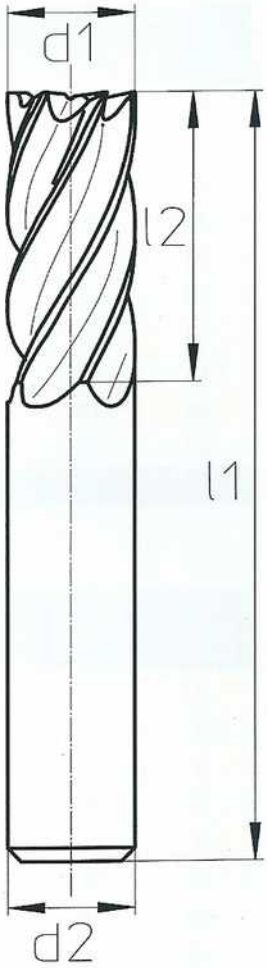
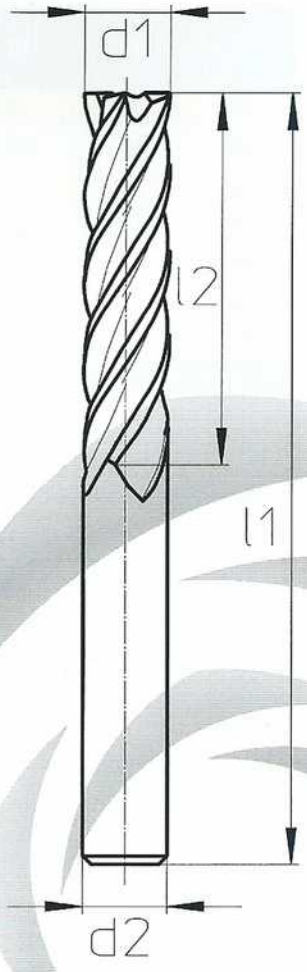
d1	d2	l2	l1	Z	HM code
4	4	11	50	4	1FA04006
5	5	13	50	4	1FA04008
6	6	13	57	4	1FA04010
7	8	16	63	4	1FA04011
8	8	19	63	4	1FA04012
9	10	19	72	4	1FA04013
10	10	22	72	4	1FA04014
12	12	26	83	4	1FA04016
14	14	26	83	4	1FA04018
16	16	32	92	4	1FA04020
18	18	32	92	4	1FA04022
20	20	38	104	4	1FA04024



d1	d2	l2	l1	z	HM code
6	6	18	57	6	1FA06006
8	8	25	63	6	1FA06008
10	10	30	72	6	1FA06010
12	12	32	83	6	1FA06012
14	14	32	83	6	1FA06014
16	16	36	92	6	1FA06016
18	18	40	92	6	1FA06018
20	20	45	104	6	1FA06020



d1	d2	l2	l1	Z	HM code
6	6	30	70	4	1FA08010
8	8	35	80	4	1FA08012
10	10	40	100	4	1FA08014
12	12	50	100	4	1FA08016
14	14	50	100	4	1FA08018
16	16	50	100	4	1FA08020
18	18	50	125	4	1FA08022
20	20	50	125	4	1FA08024



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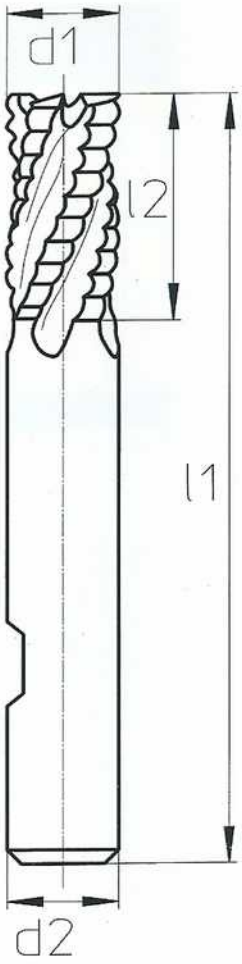
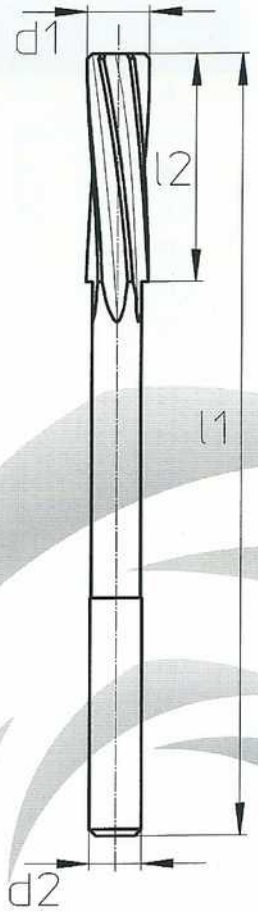
d1	d2	l2	l1	Z	HM (R) code	HM code
8	8	19	63	4	1FA10012M	1FA10012
10	10	22	72	4	1FA10014M	1FA10014
12	12	26	83	4	1FA10016M	1FA10016
14	14	26	83	4	1FA10018M	1FA10018
16	16	32	92	4	1FA10020M	1FA10020
18	18	32	92	4	1FA10022M	1FA10022
20	20	38	104	4	1FA10024M	1FA10024



d1	d2	l2	l1	HM code
1,98 à 2,02	2	11	50	1AA00198 à 1AA00202
2,48 à 2,52	2,5	15	57	1AA00248 à 1AA00252
2,98 à 3,02	3	15	57	1AA00298 à 1AA00302
3,48 à 3,52	3,5	15	57	1AA00348 à 1AA00352
3,98 à 4,02	4	19	75	1AA00398 à 1AA00402
4,48 à 4,52	4,5	21	80	1AA00448 à 1AA00452
4,98 à 5,02	5	23	86	1AA00498 à 1AA00502
5,48 à 5,52	6	26	93	1AA00548 à 1AA00552
5,98 à 6,02	6	28	101	1AA00598 à 1AA00602
6,35	6	28	101	1AA00635
6,48 à 6,52	6	28	101	1AA00648 à 1AA00652
6,98 à 7,02	7	31	109	1AA00698 à 1AA00702
7,48 à 7,52	7	31	109	1AA00748 à 1AA00752
7,98 à 8,02	8	33	117	1AA00798 à 1AA00802
8,48 à 8,52	8	33	117	1AA00848 à 1AA00852
8,98 à 9,02	9	36	125	1AA00898 à 1AA00902
9,48 à 9,52	9	36	125	1AA00948 à 1AA00952
9,98 à 10,02	10	38	133	1AA00998 à 1AA01002
10,48 à 10,52	10	38	133	1AA01048 à 1AA01052
10,98 à 11,02	10	38	133	1AA01098 à 1AA01102
11,48 à 11,52	10	44	151	1AA01148 à 1AA01152
11,98 à 12,02	12	44	151	1AA01198 à 1AA01202



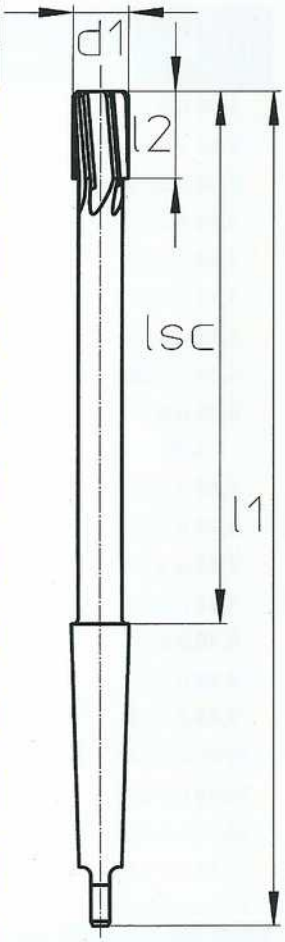
Pour - *for - Für - Para*
H7

TAILLE HÉLICOÏDALE
HELICAL FLUTED
SPIRALGENUTET
CON DIENTES HELICOIDALES

HM | SC SN SL SEL | 5° | m6 | (DIN 8051B)

Plaquette Carbure Brasées
Carbide Tipped Reamer
Handreibahlen mit Gelöteten Hartmetallplätchen
Escariadores con Plaquetas de Carburo

d1	CM	l2	lsc	l1	HM code
6	1	12	72	1358	1AA01106
7	1	16	84	150	1AA01107
8	1	16	90	156	1AA01108
9	1	19	96	162	1AA01109
10	1	19	102	168	1AA01110
11	1	19	109	175	1AA01111
12	1	19	116	182	1AA01112
13	1	19	116	182	1AA01113
14	1	19	123	189	1AA01114
15	2	19	125	204	1AA01215
16	2	22	131	210	1AA01216
17	2	22	135	214	1AA01217
18	2	22	140	219	1AA01218
19	2	22	144	223	1AA01219
20	2	22	149	228	1AA01220
21	2	25	153	232	1AA01221
22	2	25	158	237	1AA01222
23	2	25	162	241	1AA01223
24	3	25	170	268	1AA01324
25	3	25	170	268	1AA01325
26	3	25	175	273	1AA01326
27	3	30	179	277	1AA01327
28	3	30	179	277	1AA01328
29	3	30	183	281	1AA01329
30	3	30	183	281	1AA01330
32	3	30	192	290	1AA01332

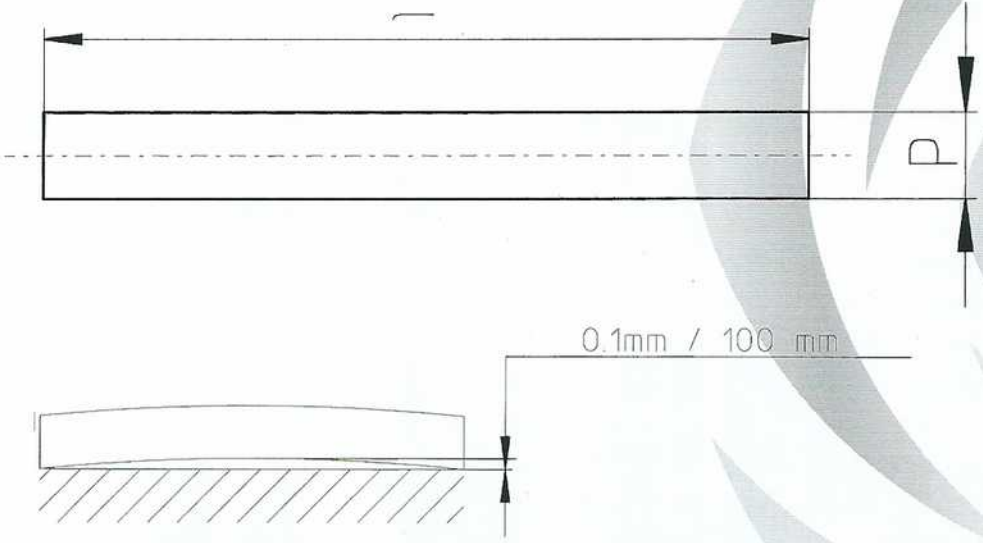


d	l	HM code
5	160	1BA550005
5	320	1BA050005
6	160	1BA550006
6	320	1BA050006
8	150	1BAA50008*
8	160	1BA550008
8	320	1BA050008
10	150	1BAA50010*
10	160	1BA550010
10	320	1BA050010
12	150	1BAA50012*

* articles disponibles jusqu'à épuisement du stock

d	l	HM code
12	160	1BA550012
12	320	1BA050012
14	150	1BAA50014*
14	160	1BA550014
14	320	1BA050014
16	150	1BAA50016*
16	160	1BA550016
16	320	1BA050016
20	150	1BAA50020*
20	160	1BA550020
20	320	1BA050020

* articles disponibles jusqu'à épuisement du stock



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SOF
OUTILLAGE

Fraises Acier Rapide

QUEUE CYLINDRIQUE

→ 1 DENTS QC SN ..... page 32

→ 1 DENTS QC SL ..... page 33

→ 2 DENTS QC SC .....page 34-35

→ 2 DENTS QC SC FIL..... page 36

→ 2 DENTS QC CLAV..... page 37

→ 2 DENTS QS SN..... page 38

→ 2 DENTS QC SN COBALU ..... page 39

→ 2 DENTS QC SN HEM..... page 40

→ 2 DENTS QC SL ..... page 41

→ 3 DENTS QC SN.....page 42-43

→ 3 DENTS QC SL ..... page 44

→ ECO FRAISE..... page 45

→ 2 TAILLES QC SN .....page 46-47

→ 2 TAILLES QC SN FIL..... page 48

→ 2 TAILLES QC SN COBALU..... page 49

→ 2 TAILLES QC SN COBINOX ..... page 50

→ 2 TAILLES QC SN HEM ..... page 51

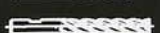
→ 2 TAILLES QC HEM COBALU..... page 52

→ 2 TAILLES QC SL HEM..... page 53

→ 2 TAILLES QC SL ..... page 54-55

→ 2 TAILLES QC SL COBALU ..... page 55

→ 2 TAILLES QC SL COBINOX..... page 57


→ 2 TAILLES QC SEL..... page 58

→ 2 TAILLES EBAU QC SC..... page 59

→ 2 TAILLES EBAU QC SN ..... page 60-61

→ 2 TAILLES EBAU QC SN PAS FIN..... page 62

→ 2 TAILLES EBAU QC SN COBALU..... page 63

→ 2 TAILLES EBAU QC SN COBINOX ..... page 64

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→ RAINURE A TE QC..... page 70

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→ CONIQUE TYPE A..... page 72

→ CONIQUE TYPE B..... page 73

→ CONIQUE QC ..... page 74

→ 1/4 CERCLE QC..... page 75

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SOF
OUTILLAGE

MOM

Queue Cylindrique

_Straight Shank

_Zylinderschaft

_Mango Cilíndrico

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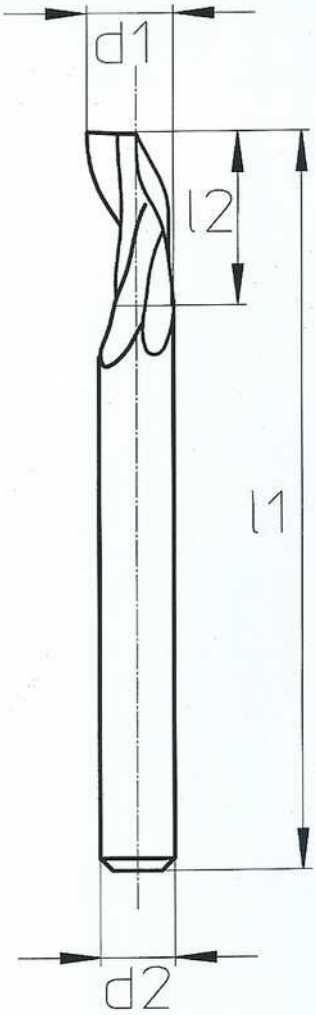
1 DENT À RAINURER ET CONTOURNER

1 FLUTE END MILLS
EINZAHNFRÄSER
FRESAS FRONTALES DE 1 DIENTE

Pour Aluminium - Plastique
For Aluminium - Plastic
Für Aluminium - Kunstoff
Para Aluminio - Plástico

d1	d2	l2	l1	COBA 5 code
3	8	12	60	1F527003
4	8	12	60	1F5270 04
5	8	12	60	1F527005
6	8	14	60	1F527006
8	8	14	80	1F527007
10	8	14	80	1F527008



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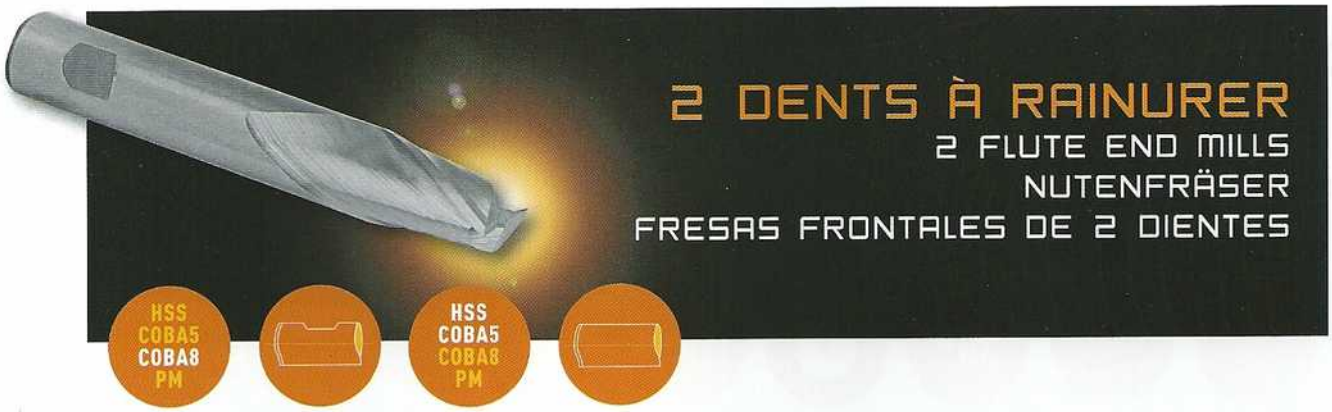
d1	d2	l2	l1	COBA 5
				code
5	8	14	80	1F529005
6	8	14	80	1F529006
8	8	14	120	1F529008
10	8	14	120	1F529010

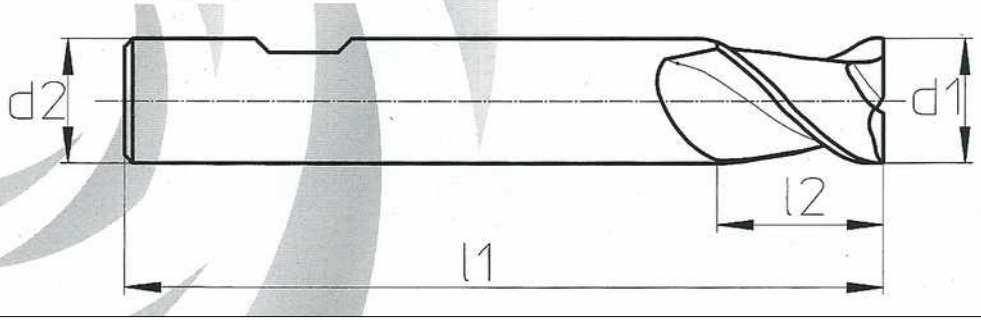


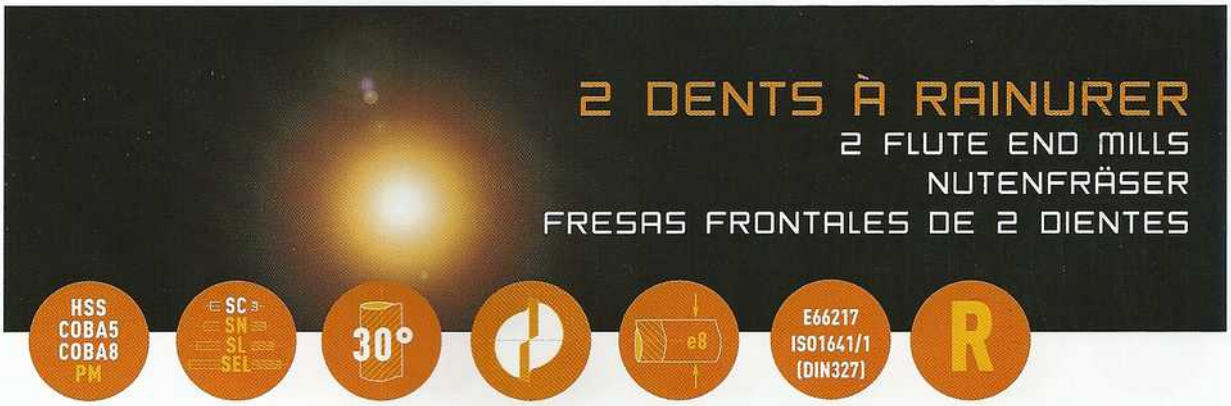
2 DENTS À RAINURER

2 FLUTE END MILLS
NUTENFRÄSER
FRESAS FRONTALES DE 2 DIENTES

d1	COBA 8			COBA 5			HSS		
	d2	l2	l1	d2	l2	l1	d2	l2	l1
1	6	3	47						
1,5	6	4	48	4	4	36			
2	6	4	48	4	4	36	4	4	36
2,5	6	5	49	4	5	37			
3	6	5	49	4	5	37	4	5	37
3,5	6	6	50	4	6	38			
4	6	7	51	4	7	39	4	7	39
4,5	6	7	51	5	7	41			
4,8				5	8	42			
5	6	8	52	5	8	42	5	8	42
5,5	6	8	52	6	8	52			
5,75				6	8	52			
6	6	8	52	6	8	52	6	8	52
6,35				8	10	54			
6,5	10	10	60	8	10	54			
7	10	10	60	8	10	54	8	10	54
7,5	10	10	60	8	10	54			
8	10	11	61	8	11	55	8	11	55
8,5	10	11	61	10	11	61			
9	10	11	61	10	11	61	10	11	61
9,5	10	11	61	10	11	61			
10	10	13	63	10	13	63	10	13	63
10,5				12	13	70			
10,7				12	13	70			

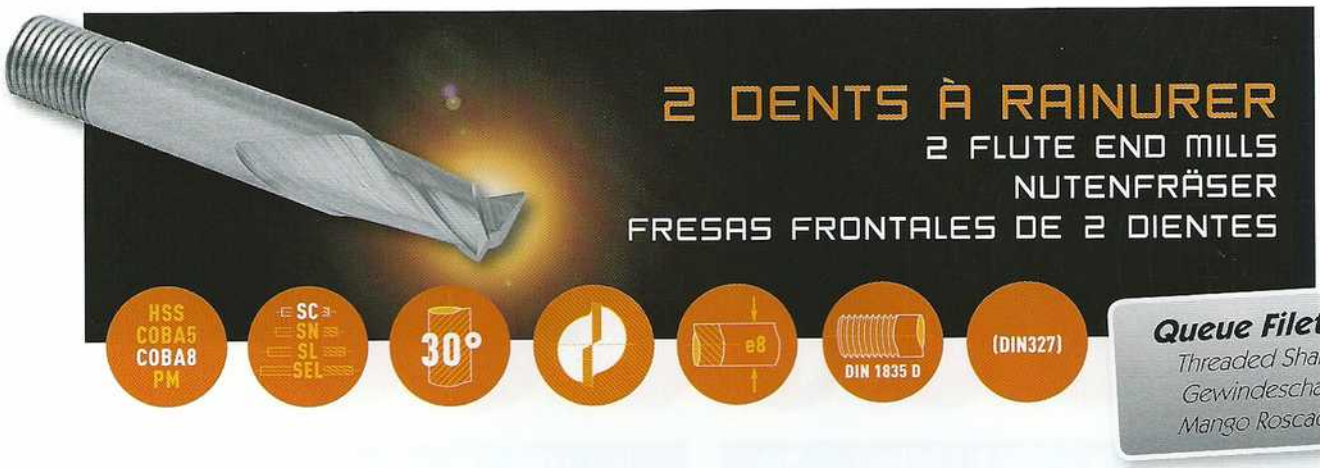
d1	COBA 8			COBA 5			HSS		
	d2	l2	l1	d2	l2	l1	d2	l2	l1
11	12	13	70	12	13	70	12	13	70
11,5				12	16	73			
11,7				12	16	73			
12	12	16	73	12	16	73	12	16	73
12,5				12	16	73			
12,7				12	16	73			
13	12	16	73	12	16	73	12	16	73
13,5				12	16	73			
13,7				12	16	73			
14	12	16	73	12	16	73	12	16	73
14,7				12	16	73			
15	12	16	73	12	16	73	12	16	73
15,7				16	19	79			
16	16	19	79	16	19	79	16	19	79
17	16	19	79	16	19	79			
18	16	19	79	16	19	79	16	19	79
19	16	19	79	20	19	79			
20	20	22	88	20	22	88	20	22	88
22	20	22	88						
25	25	26	102						
28	25	26	102						
30	25	26	102						
32	32	32	112						



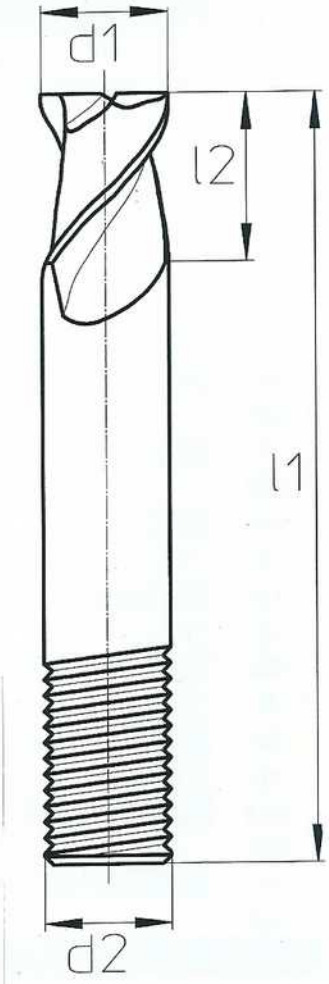


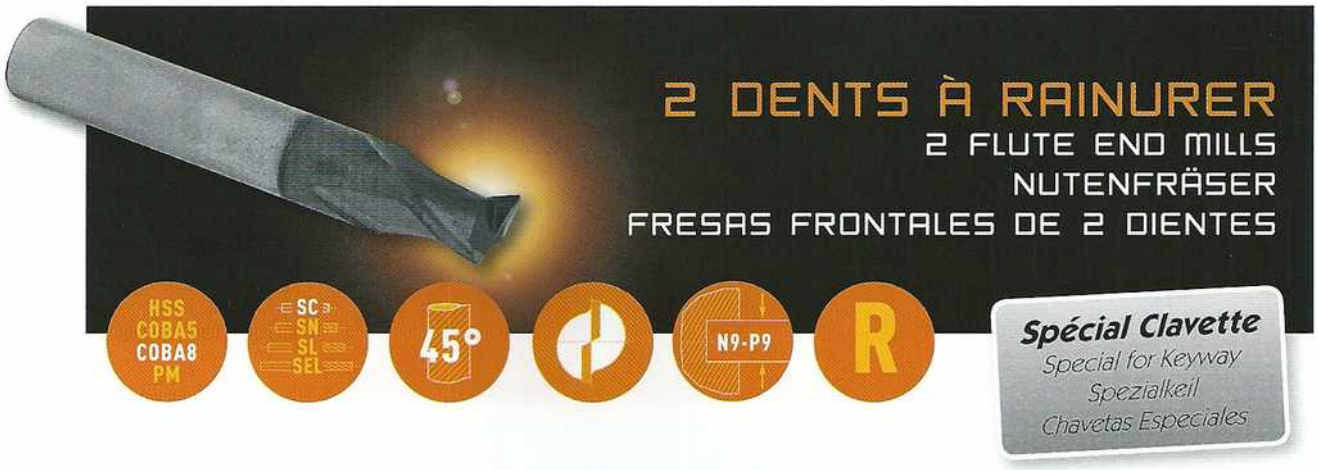
d1	COBA 8 R code	COBA 8 code	COBA 5 code	HSS code
1	1F814000M	1F814000		
1,5	1F814002M	1F814002	1F519002	
2	1F814004M	1F814004	1F519004	1FH30004
2,5	1F814006M	1F814006	1F519006	
3	1F814010M	1F814010	1F519010	1FH30010
3,5	1F814012M	1F814012	1F519012	
4	1F814016M	1F814016	1F519016	1FH30016
4,5	1F814018M	1F814018	1F519018	
4,8			1F519020	
5	1F814022M	1F814022	1F519022	1FH30022
5,5	1F814024M	1F814024	1F519024	
5,75			1F519026	
6	1F814030M	1F814030	1F519028	1FH30030
6,35			1F519030	
6,5	1F814034M	1F814034	1F519032	
7	1F814038M	1F814038	1F519036	1FH30038
7,5	1F814040M	1F814040	1F519038	
8	1F814046M	1F814046	1F519044	1FH30046
8,5	1F814048M	1F814048	1F519046	
9	1F814054M	1F814054	1F519054	1FH30054
9,5	1F814056M	1F814056	1F519058	
10	1F814062M	1F814062	1F519062	1FH30062
10,5			1F519065	
10,7			1F519068	
11	1F814070M	1F814070	1F519070	1FH30070
11,5			1F519075	

d1	COBA 8 R code	COBA 8 code	COBA 5 code	HSS code
11,7			1F519078	
12	1F814080M	1F814080	1F519080	1FH30080
12,5			1F519085	
12,7			1F519088	
13	1F814090M	1F814090	1F519090	1FH30090
13,5			1F519095	
13,7			1F519098	
14	1F814100M	1F814100	1F519100	1FH30100
14,7			1F519105	
15	1F814108M	1F814108	1F519108	1FH30108
15,7			1F519115	
16	1F814118M	1F814118	1F519118	1FH30118
17	1F814125M	1F814125	1F519125	
18	1F814130M	1F814130	1F519130	1FH30130
19	1F814135M	1F814135	1F519135	
20	1F814140M	1F814140	1F519140	1FH30140
22	1F814150M	1F814150		
25	1F814165M	1F814165		
28	1F814180M	1F814180		
30	1F814190M	1F814190		
32	1F814200M	1F814200		



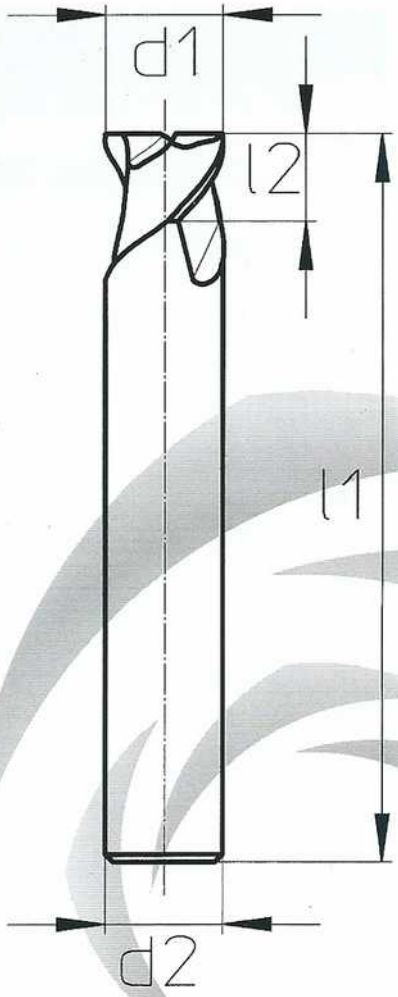
d1	d2	l2	l1	COBA 8 code
4	6	7	51	1F824004
5	6	8	52	1F824006
6	6	8	52	1F824008
7	10	10	60	1F824010
8	10	11	61	1F824012
9	10	11	61	1F824014
10	10	13	63	1F824016
11	12	13	70	1F824018
12	12	16	73	1F824020
14	12	16	73	1F824024
16	16	19	79	1F824028
18	16	19	79	1F824032
20	20	22	88	1F824036





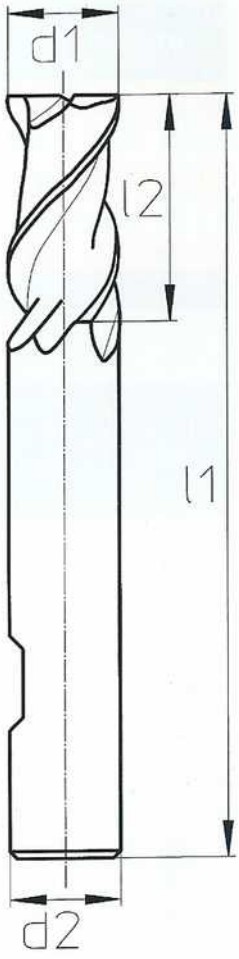
d1	d2	l2	l1	COBA 8 (R) code
4	6	5	50	1FT04016M
5	6	5	50	1FT04022M
6	6	5	50	1FT04030M
8	8	6	50	1FT04046M
10	10	7	50	1FT04062M

d1	TOLERANCE Tolerance Toleranz Tolerancia
4	-0,025
	-0,030
5 \ 6	-0,025
	0,035
8 \ 10	-0,030
	-0,040

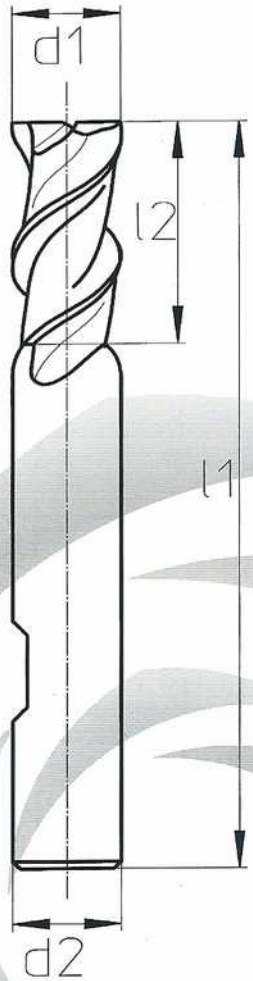


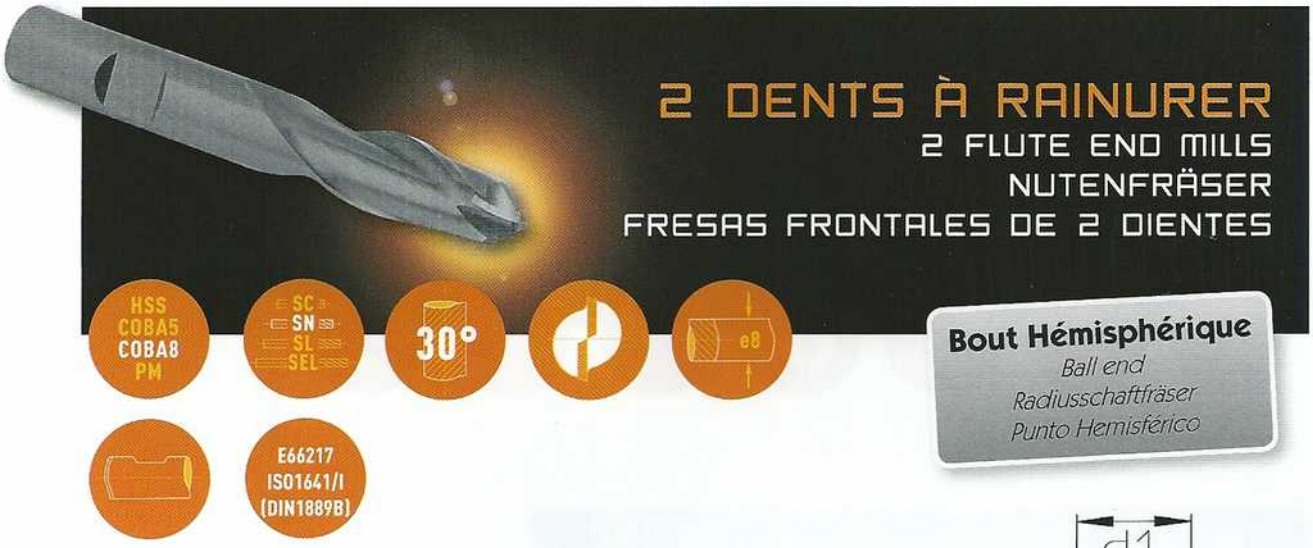
d1	COBA 8			COBA 5		
	d2	l2	l1	d2	l2	l1
3	6	8	52	4	8	40
3,5	6	10	54			
4	6	11	55	4	11	43
4,5	6	11	55			
5	6	13	57	5	13	47
5,5	6	13	57			
6	6	13	57	6	13	57
6,5	10	16	66			
7	10	16	66	8	16	60
8	10	19	69	8	19	63
9	10	19	69	10	19	69
10	10	22	72	10	22	72
11	12	22	79	12	22	79
12	12	26	83	12	26	83
14	12	26	83	12	26	83
16	16	32	92	16	32	92
18	16	32	92	16	32	92
20	20	38	104	20	38	104

d1	COBA 8 (R)	COBA 8	COBA 5
	code	code	code
3	1F815006M	1F815006	1F521006
3,5	1F815008M	1F815008	
4	1F815010M	1F815010	1F521010
4,5	1F815012M	1F815012	
5	1F815014M	1F815014	1F521014
5,5	1F815016M	1F815016	
6	1F815018M	1F815018	1F521018
6,5	1F815020M	1F815020	
7	1F815022M	1F815022	1F521022
8	1F815024M	1F815024	1F521026
9	1F815025M	1F815025	1F521030
10	1F815026M	1F815026	1F521034
11	1F815038M	1F815038	1F521038
12	1F815042M	1F815042	1F521042
14	1F815050M	1F815050	1F521050
16	1F815058M	1F815058	1F521058
18	1F815056M	1F815056	1F521066
20	1F815074M	1F815074	1F521074

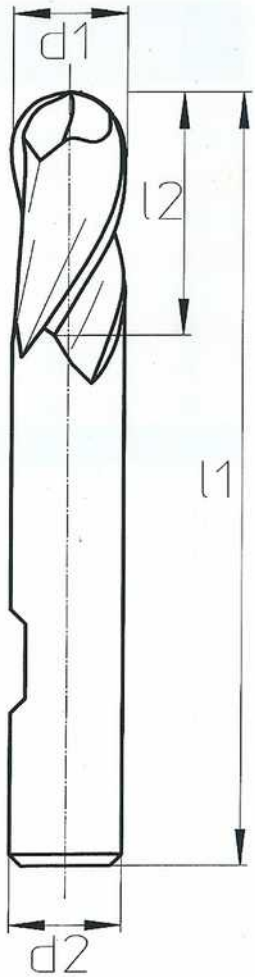


d1	d2	l2	l1	COBALU code
3	6	8	52	1FL15004
4	6	11	55	1FL15006
5	6	13	57	1FL15008
6	6	13	57	1FL15010
8	10	19	69	1FL15014
10	10	22	72	1FL15018
12	12	26	83	1FL15022
16	16	32	92	1FL15030
20	20	38	104	1FL15038





d1	d2	l2	l1	COBA 8 code
3	6	8	52	1F816006
4	6	11	55	1F816010
5	6	13	57	1F816014
6	6	13	57	1F816018
7	10	16	66	1F816022
8	10	19	69	1F816026
9	10	19	69	1F816030
10	10	22	72	1F816034
11	12	22	79	1F816038
12	12	26	83	1F816042
14	12	26	83	1F816050
16	16	32	92	1F816058
18	16	32	92	1F816066
20	20	38	104	1F816074

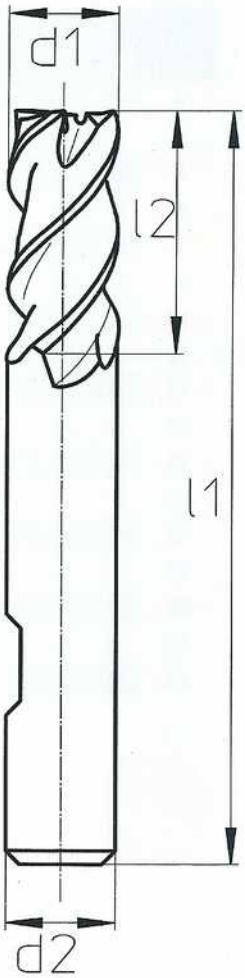


d1	COBA 8			COBA 5		
	d2	l2	l1	d2	l2	l1
3	6	12	56	4	12	44
4	6	19	63	4	19	51
5	6	24	68	5	24	58
6	6	24	68	6	24	58
7	10	30	80	8	30	74
8	10	38	88	8	38	82
10	10	45	95	10	45	95
12	12	53	110	12	53	110
14	12	53	110	12	53	110
16	16	63	123	16	63	123
18	16	63	123	16	63	123
20	20	75	141	20	75	141
22	20	75	141			
25	25	90	166			
28	25	90	166			
30	25	90	166			
32	32	106	186			

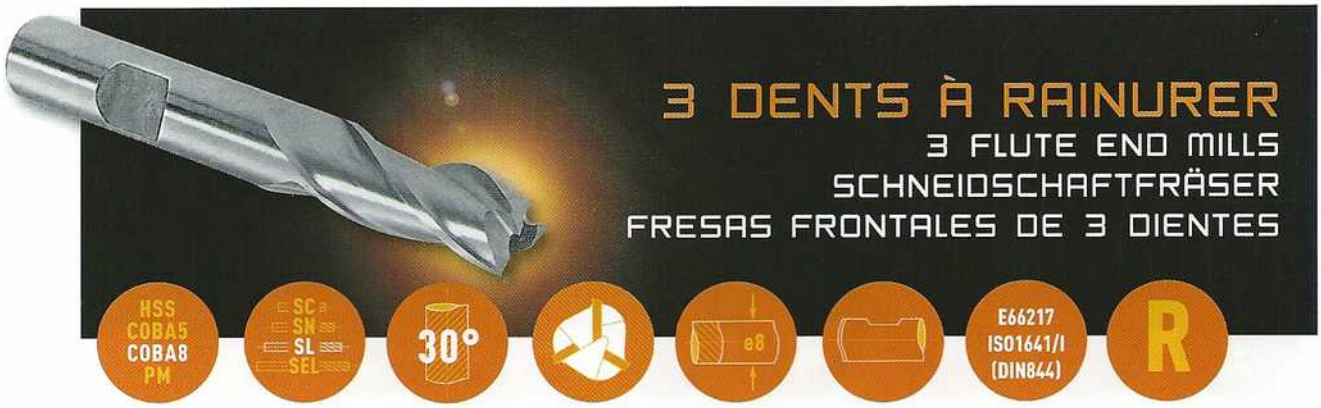
d1	COBA 8 (R)	COBA 8	COBA 5
	code	code	code
3	1F825004M	1F825004	1F522006
4	1F825006M	1F825006	1F522010
5	1F825008M	1F825008	1F522014
6	1F825010M	1F825010	1F522018
7	1F825012M	1F825012	1F522022
8	1F825014M	1F825014	1F522026
10	1F825018M	1F825018	1F522034
12	1F825022M	1F825022	1F522042
14	1F825026M	1F825026	1F522050
16	1F825030M	1F825030	1F522058
18	1F825034M	1F825034	1F522066
20	1F825038M	1F825038	1F522074
22	1F825042M	1F825042	
25	1F825048M	1F825048	
28	1F825054M	1F825054	
30	1F825058M	1F825058	
32	1F825062M	1F825062	

d1	PM			COBA 8		
	d2	l2	l1	d2	l2	l1
2				6	7	51
2,5				6	8	52
3	6	8	52	6	8	52
3,5				6	10	54
4	6	11	55	6	11	55
4,5				6	11	55
5	6	13	57	6	13	57
5,5				6	13	57
6	6	13	57	6	13	57
6,5				10	16	66
7				10	16	66
8	10	19	69	10	19	69
9				10	19	69
10	10	22	72	10	22	72
28	25	90	166			
30	25	90	166			
32	32	106	186			

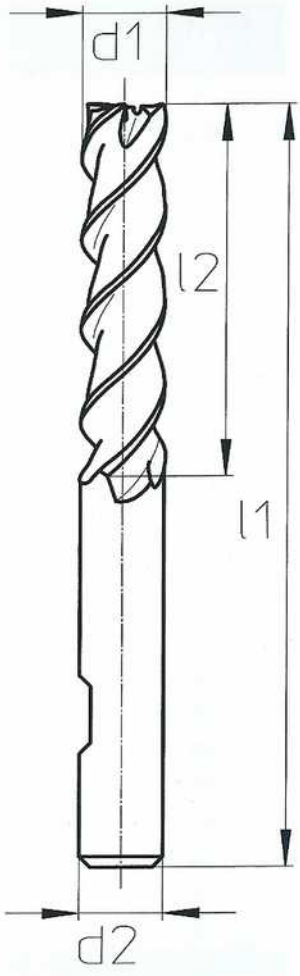
d1	PM			COBA 8		
	d2	l2	l1	d2	l2	l1
12	12	26	83	12	26	83
14	12	26	83	12	26	83
16	16	32	92	16	32	92
18	16	32	92	16	32	92
20	20	38	104	20	38	104
22				20	38	104
25				25	45	121
28				25	45	121
30				25	45	121
32				32	53	133

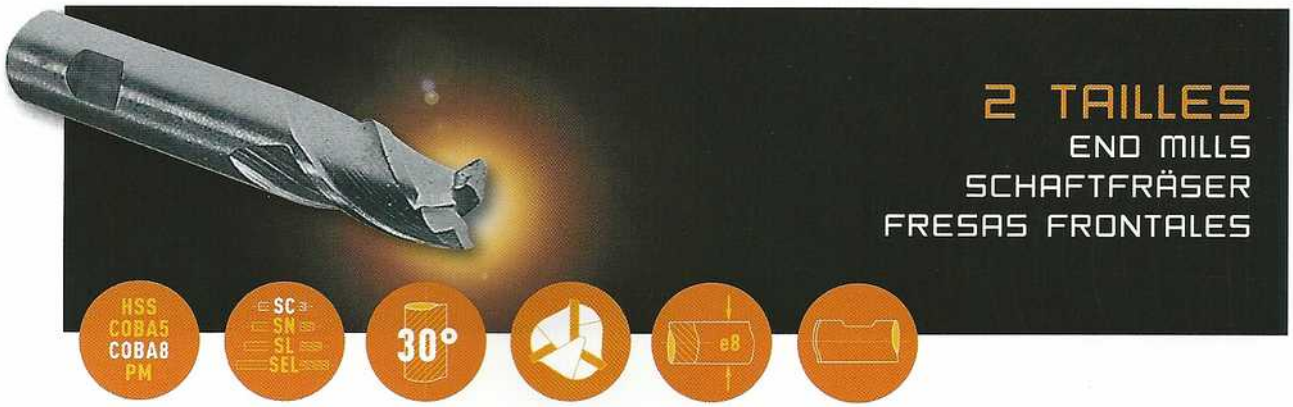


d1	PM	COBA 8 R	COBA 8
	code	code	code
2		1F817002M	1F817002
2,5		1F817004M	1F817004
3	1FF06006	1F817006M	1F817006
3,5		1F817008M	1F817008
4	1FF06010	1F817010M	1F817010
4,5		1F817012M	1F817012
5	1FF06014	1F817014M	1F817014
5,5		1F817016M	1F817016
6	1FF06018	1F817018M	1F817018
6,5		1F817020M	1F817020
7		1F817022M	1F817022
8	1FF06026	1F817026M	1F817026
9		1F817030M	1F817030
10	1FF06034	1F817034M	1F817034
12	1FF06042	1F817042M	1F817042
14	1FF06050	1F817050M	1F817050
16	1FF06058	1F817058M	1F817058
18	1FF06066	1F817066M	1F817066
20	1FF06074	1F817074M	1F817074
22		1F817082M	1F817082
25		1F817094M	1F817094
28		1F817106M	1F817106
30		1F817114M	1F817114
32		1F817122M	1F817122

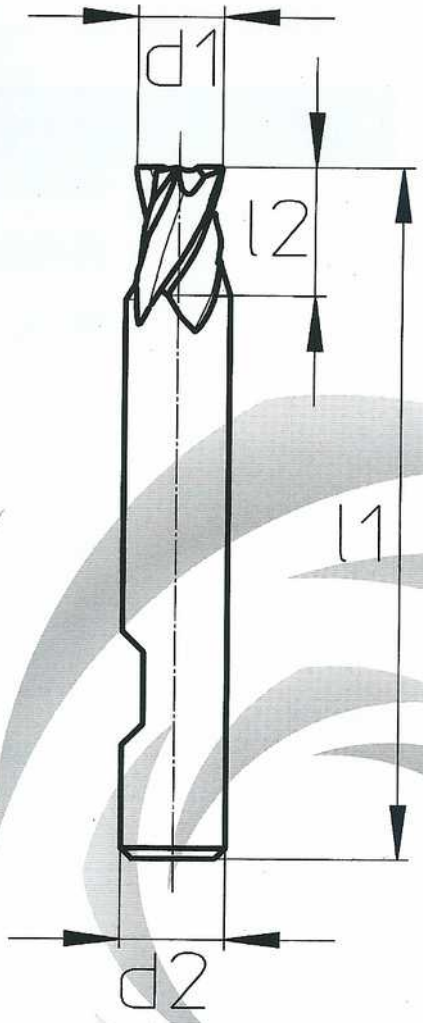


d1	d2	l2	l1	COBA 8 (R) code	COBA 8 code
3	6	12	56	1F818006M	1F818006
4	6	19	63	1F818010M	1F818010
5	6	24	68	1F818014M	1F818014
6	6	24	68	1F818018M	1F818018
8	10	38	88	1F818026M	1F818026
10	10	45	95	1F818034M	1F818034
12	12	53	110	1F818042M	1F818042
14	12	53	110	1F818050M	1F818050
16	16	63	123	1F818058M	1F818058
18	16	63	123	1F818066M	1F818066
20	20	75	141	1F818074M	1F818074
22	20	75	141	1F818082M	1F818082
25	25	90	166	1F818094M	1F818094
28	25	90	166	1F818106M	1F818106
30	25	90	166	1F818114M	1F818114
32	32	106	186	1F818122M	1F818122





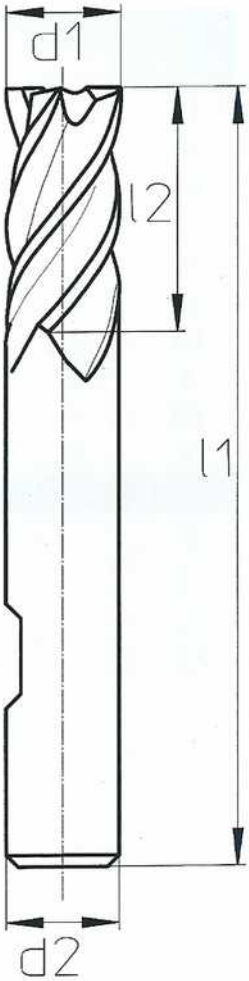
d1	d2	l2	l1	Z	COBA 8 code
1,5	6	4	35	3	1F813002
2	6	7	38	3	1F813004
2,5	6	8	39	3	1F813006
3	6	8	39	3	1F813008
3,5	6	10	41	3	1F813010
4	6	11	42	3	1F813012
4,5	6	11	42	3	1F813014
5	6	13	44	3	1F813016
5,5	6	13	44	3	1F813018
6	6	13	44	3	1F813020

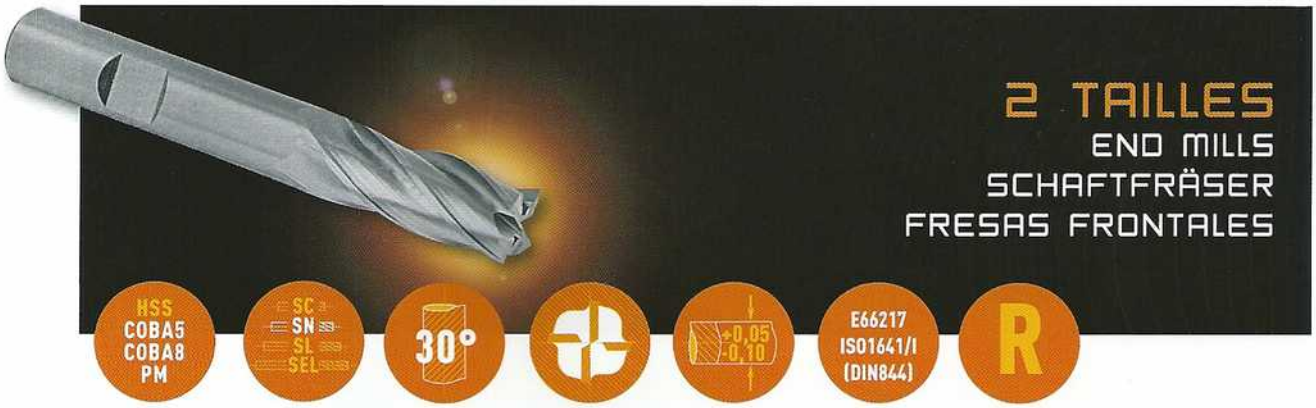


HSS
COBA5
COBA8
PM

HSS
COBA5
COBA8
PM

d1	PM				COBA 8				COBA 5			
	d2	l2	l1	Z	d2	l2	l1	Z	d2	l2	l1	Z
2					6	7	51	3	4	7	39	3
3	6	8	52	3	6	8	52	3	4	8	40	3
4	6	11	55	3	6	11	55	3	4	11	43	3
5	6	13	57	3	6	13	57	3	5	13	47	3
6	6	13	57	4	6	13	57	4	6	13	57	4
7					10	16	66	4	8	16	60	4
8	10	19	69	4	10	19	69	4	8	19	63	4
9					10	19	69	4	10	19	69	4
10	10	22	72	4	10	22	72	4	10	22	72	4
11					12	22	79	4	12	22	79	4
12	12	26	83	4	12	26	83	4	12	26	83	4
13					12	26	83	4	12	26	83	4
14	12	26	83	4	12	26	83	4	12	26	83	4
15					12	26	83	4	12	26	83	4
16	16	32	92	4	16	32	92	4	16	32	92	4
18	16	32	92	4	16	32	92	4	16	32	92	4
20	20	38	104	4	20	38	104	4	20	38	104	4
22					20	38	104	4				
25					25	45	121	5				
28					25	45	121	5				
30					25	45	121	5				
32					32	53	133	5				



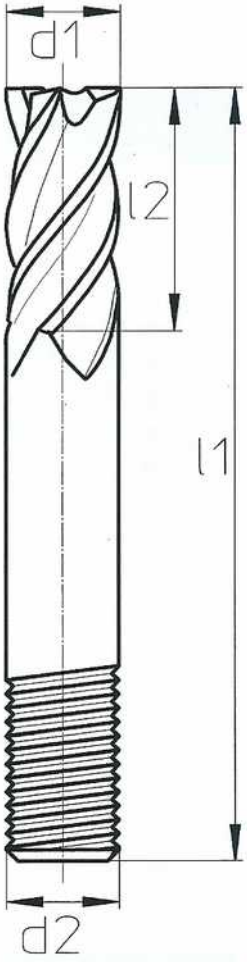


d1	PM	COBA 8 (R)	COBA 8	COBA 5
	code	code	code	code
2		1F819002M	1F819002	1F525004
3	1FF05006	1F819004M	1F819004	1F525008
4	1FF05010	1F819006M	1F819006	1F525012
5	1FF05014	1F819008M	1F819008	1F525016
6	1FF05018	1F819010M	1F819010	1F525020
7		1F819011M	1F819011	1F525024
8	1FF05026	1F819012M	1F819012	1F525026
9		1F819013M	1F819013	1F525028
10	1FF05034	1F819014M	1F819014	1F525030
11		1F819015M	1F819015	1F525032
12	1FF05042	1F819016M	1F819016	1F525034
13		1F819017M	1F819017	1F525036
14	1FF05050	1F819018M	1F819018	1F525038
15		1F819019M	1F819019	1F525040
16	1FF05058	1F819020M	1F819020	1F525042
18	1FF05056	1F819022M	1F819022	1F525044
20	1FF05074	1F819024M	1F819024	1F525046
22		1F819026M	1F819026	
25		1F819029M	1F819029	
28		1F819032M	1F819032	
30		1F819034M	1F819034	
32		1F819036M	1F819036	

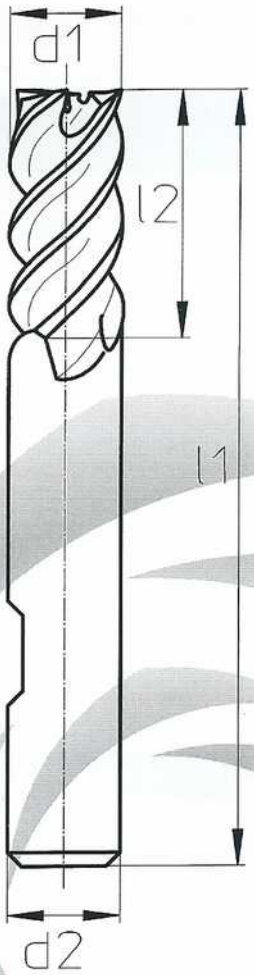
2 TAILLES
END MILLS
SCHAFTFRÄSER
FRESAS FRONTALES

Queue Filetée
Threaded Shank
Gewindeschaft
Mango Roscado

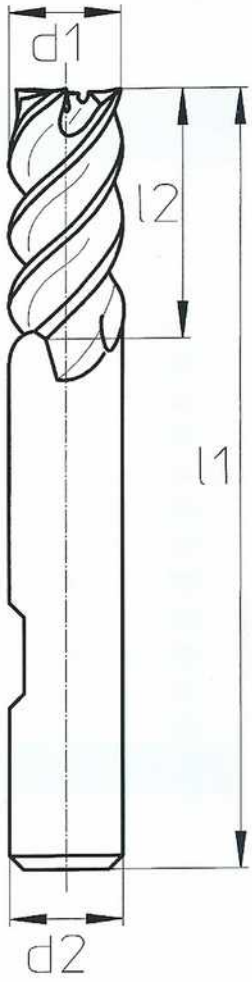
d1	d2	l2	l1	Z	COBA 8 code
4	6	11	55	3	1F827004
5	6	13	57	3	1F827006
6	6	13	57	4	1F827008
7	10	16	66	4	1F827010
8	10	19	69	4	1F827012
9	10	19	69	4	1F827014
10	10	22	72	4	1F827016
11	12	22	79	4	1F827018
12	12	26	83	4	1F827020
14	12	26	83	4	1F827024
16	16	32	92	4	1F827028
18	16	32	92	4	1F827032
20	20	38	104	4	1F827036



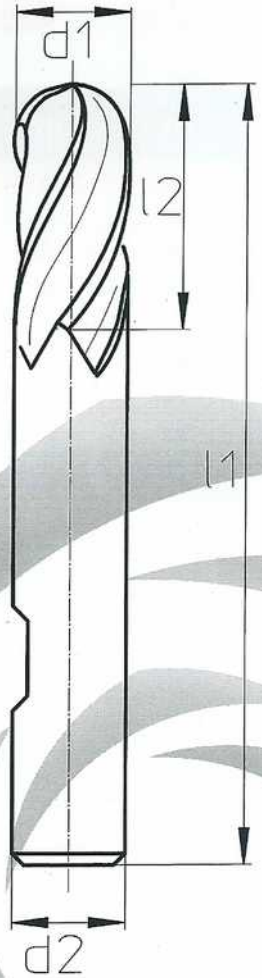
d1	d2	l2	l1	Z	COBALU R code	COBALU code
3	6	8	52	3	1FL09003K	1FL09003
4	6	11	55	3	1FL09004K	1FL09004
5	6	13	57	3	1FL09005K	1FL09005
6	6	13	57	3	1FL09006K	1FL09006
8	10	19	69	3	1FL09008K	1FL09008
10	10	22	72	3	1FL09010K	1FL09010
12	12	26	83	3	1FL09012K	1FL09012
14	12	26	83	3	1FL09014K	1FL09014
16	16	32	92	3	1FL09016K	1FL09016
18	16	32	92	3	1FL09018K	1FL09018
20	20	38	104	3	1FL09020K	1FL09020
22	20	38	104	3	1FL09022K	1FL09022
25	25	45	121	3	1FL09025K	1FL09025
28	25	45	121	3	1FL09028K	1FL09028
30	25	45	121	3	1FL09030K	1FL09030
32	32	53	133	3	1FL09032K	1FL09032



d1	d2	l2	l1	Z	COBINOX (R) code
3	6	8	52	3	1FT05004K
4	6	11	55	3	1FT05006K
5	6	13	57	3	1FT05008K
6	6	13	57	3	1FT05010K
8	10	19	69	3	1FT05012K
10	10	22	72	3	1FT05014K
12	12	26	83	3	1FT05016K
14	12	26	83	3	1FT05018K
16	16	32	92	3	1FT05020K
18	16	32	92	3	1FT05022K
20	20	38	104	4	1FT05024K
22	20	38	104	4	1FT05026K
25	25	45	121	4	1FT05028K
28	25	45	121	4	1FT05030K
30	25	45	121	5	1FT05036K
32	32	53	133	5	1FT05040K



d1	d2	l2	l1	Z	COBA 8 code
3	6	8	52	3	1F819200
4	6	11	55	3	1F819202
5	6	13	57	3	1F819204
6	6	13	57	4	1F819206
8	10	19	69	4	1F819208
10	10	22	72	4	1F819210
12	12	26	83	4	1F819212
16	16	32	92	4	1F819216
20	20	38	104	4	1F819220

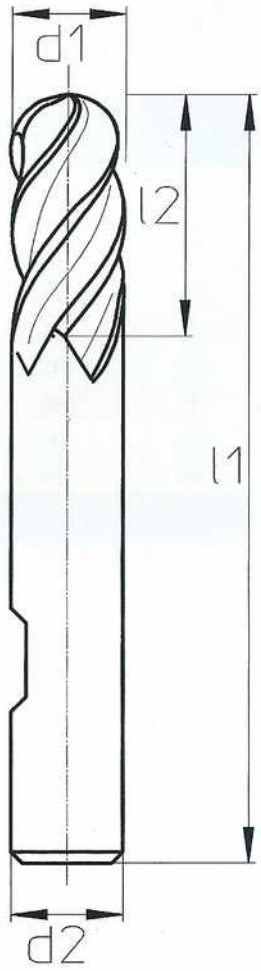


2 TAILLES
END MILLS
SCHAFTFRÄSER
FRESAS FRONTALES

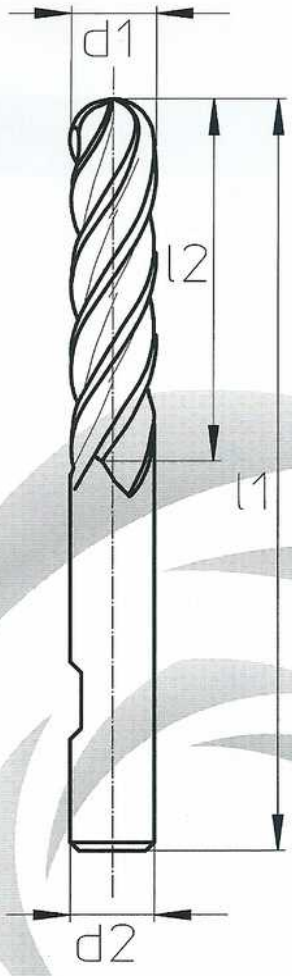
Pour Aluminium
For Aluminium
Für Aluminium
Para Aluminio

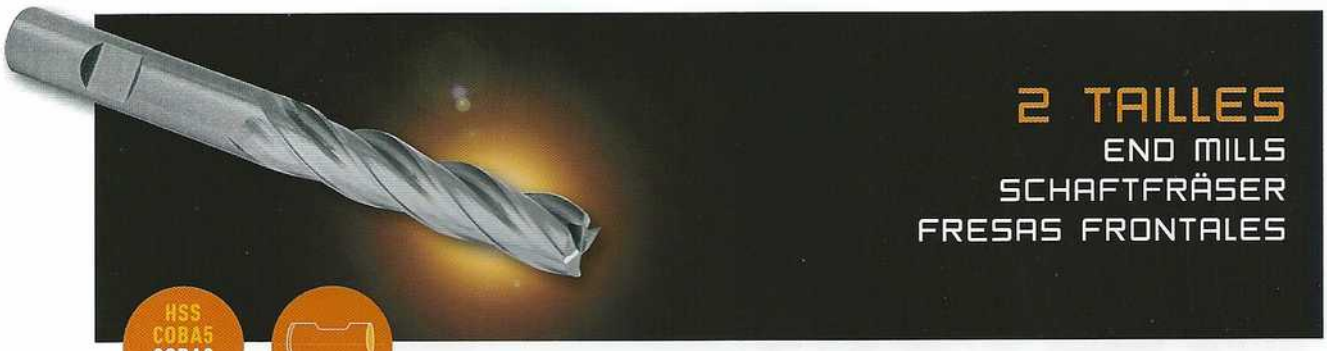
Bout Hémisphérique
Ball end
Radiusschaftfräser
Punto Hemisférico

d1	d2	l2	l1	Z	COBALU code
4	6	11	55	3	1FL14004
5	6	13	57	3	1FL14006
6	6	13	57	3	1FL14008
8	10	19	69	3	1FL14012
10	10	22	72	3	1FL14016
12	12	26	83	3	1FL14020
16	16	32	92	3	1FL14028
20	20	38	104	3	1FL14036

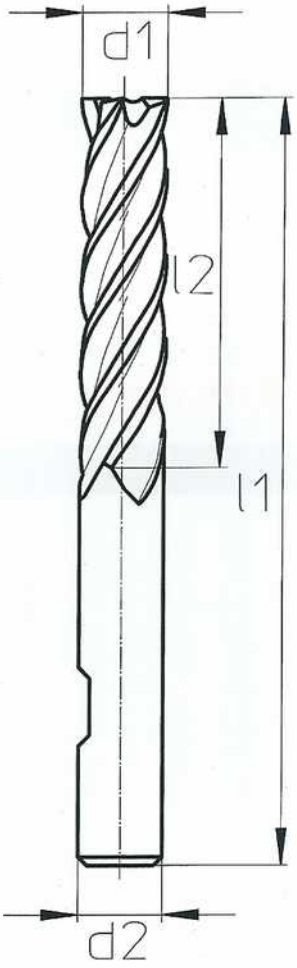


d1	d2	l2	l1	Z	COBA 8 code
4	6	19	63	3	1F819302
5	6	24	68	3	1F819304
6	6	24	68	4	1F819306
8	10	38	88	4	1F819308
10	10	45	95	4	1F819310
12	12	53	110	4	1F819312
16	16	63	123	4	1F819316
20	20	75	141	4	1F819320





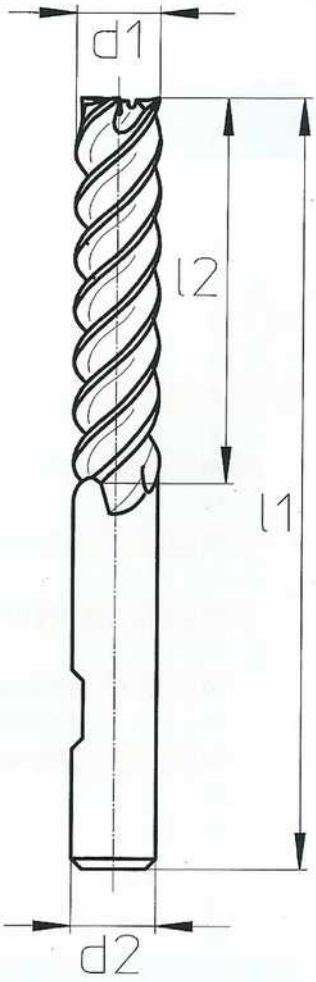
d1	PM				COBA 8				COBA 5			
	d2	l2	l1	Z	d2	l2	l1	Z	d2	l2	l1	Z
2					6	10	54	3				
3					6	12	56	3	4	12	44	3
4					6	19	63	3	4	19	51	3
5	6	24	68	3	6	24	68	3	5	24	58	3
6	6	24	68	4	6	24	68	4	6	24	68	4
7					10	30	80	4	8	30	74	4
8	10	38	68	4	10	38	88	4	8	38	82	4
9					10	38	88	4	10	38	88	4
10	10	45	95	4	10	45	95	4	10	45	95	4
11					12	45	102	4				
12	12	53	110	4	12	53	110	4	12	53	110	4
13					12	53	110	4				
14	12	53	110	4	12	53	110	4	12	53	110	4
15					12	53	110	4				
16	16	63	123	4	16	63	123	4	16	63	123	4
18	16	63	123	4	16	63	123	4	16	63	123	4
20	20	75	141	4	20	75	141	4	20	75	141	4
22					20	75	141	4				
25					25	90	166	5				
28					25	90	166	5				
30					25	90	166	5				
32					32	106	186	5				



MINEO Outillages & Machines
BP:49 - rue Charles Longuet – Parc d'activité Le Brasseur – 59690 Vieux-Condé (FRANCE)
Web:mom-france.eu ✉: mom@mom-france.eu **Tel** : (33) 03 27 25 00 62 **Fax** : (33) 03 27 25 03 06

d1	PM	COBA 8 (R)	COBA 8	COBA 5
	code	code	code	code
2		1F828004M	1F828004	
3		1F828006M	1F828006	1F526005
4		1F828008M	1F828008	1F526006
5	1FF07010	1F828010M	1F828010	1F526008
6	1FF07012	1F828012M	1F828012	1F526010
7		1F828014M	1F828014	1F526011
8	1FF07016	1F828016M	1F828016	1F526012
9		1F828018M	1F828018	1F526013
10	1FF07020	1F828020M	1F828020	1F526014
11		1F828022M	1F828022	
12	1FF07024	1F828024M	1F828024	1F526016
13		1F828026M	1F828026	
14	1FF07028	1F828028M	1F828028	1F526018
15		1F828030M	1F828030	
16	1FF07032	1F828032M	1F828032	1F526020
18	1FF07036	1F828036M	1F828036	1F526022
20	1FF07040	1F828040M	1F828040	1F526024
22		1F828044M	1F828044	
25		1F828050M	1F828050	
28		1F828056M	1F828056	
30		1F828060M	1F828060	
32		1F828064M	1F828064	

d1	d2	l2	l1	Z	COBALU code
3	6	12	56	3	1FL10003
4	6	19	63	3	1FL10004
5	6	24	68	3	1FL10005
6	6	24	68	3	1FL10006
8	10	38	88	3	1FL10008
10	10	45	95	3	1FL10010
12	12	53	110	3	1FL10012
14	12	53	110	3	1FL10014
16	16	63	123	3	1FL10016
18	16	63	123	3	1FL10018
20	20	75	141	3	1FL10020
22	20	75	141	3	1FL10022
25	25	90	166	3	1FL10025
28	25	90	166	3	1FL10028
30	25	90	166	3	1FL10030
32	32	106	186	3	1FL10032



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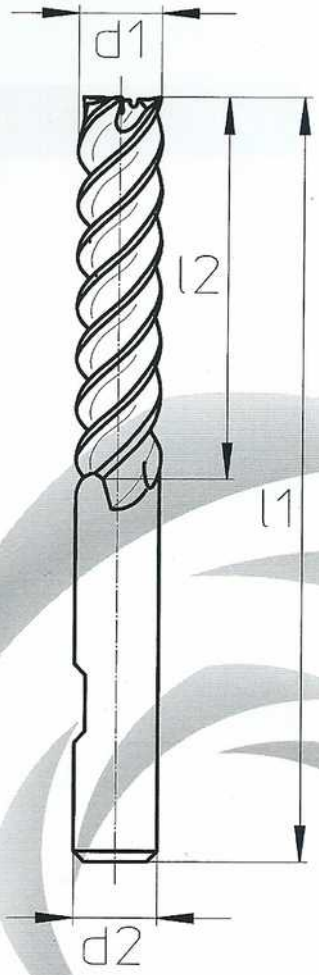
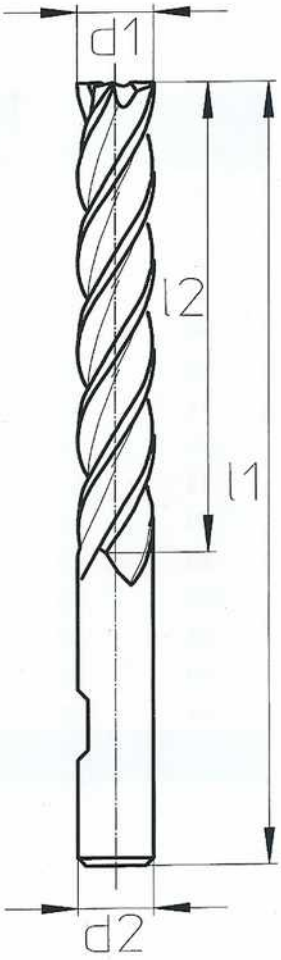
d1	d2	l2	l1	Z	COBINOX (R) code
4	6	19	63	3	1FT06008K
5	6	24	68	3	1FT06009K
6	6	24	68	3	1FT06010K
8	10	38	88	3	1FT06012K
10	10	45	95	3	1FT06014K
12	12	53	110	3	1FT06016K
14	12	53	110	3	1FT06018K
16	16	63	123	3	1FT06020K
18	16	63	123	3	1FT06022K
20	20	75	141	4	1FT06024K
22	20	75	141	4	1FT06026K
25	25	90	166	4	1FT06030K
28	25	90	166	4	1FT06036K
30	25	90	166	5	1FT06040K
32	32	106	186	5	1FT06044K

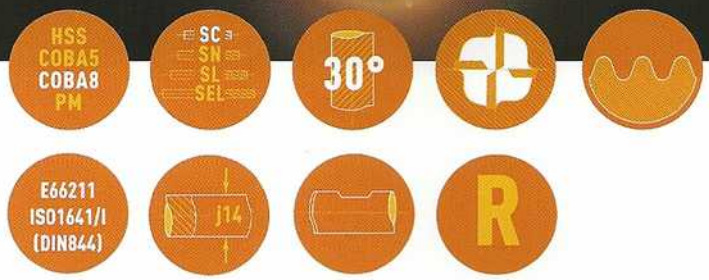


d1	d2	l2	l1	Z	COBA 5	COBA 8
					code	code
5	6	40	80	3	1F819105	
6	6	50	95	4	1F819106	
8	10	60	105	4		1F819108
10	10	65	115	4		1F819110
12	12	75	125	4		1F819112
14	12	80	130	4		1F819114
16	16	95	145	4		1F819116

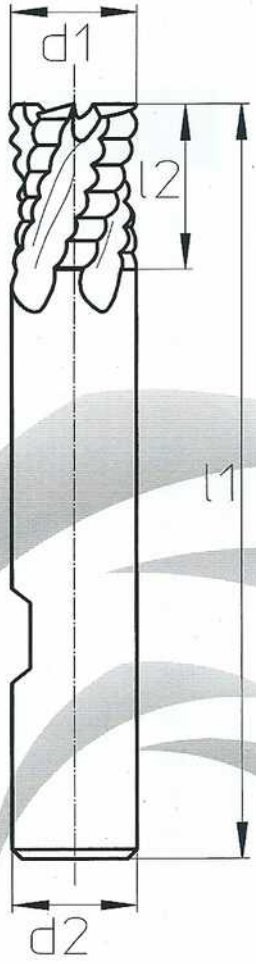


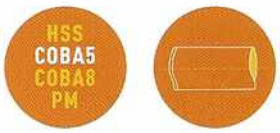
2 TAILLES EBAUCHE

ROUGHING END MILLS
SCHRUPPFRÄSER
FRESAS FRONTALES DE DESBASTE

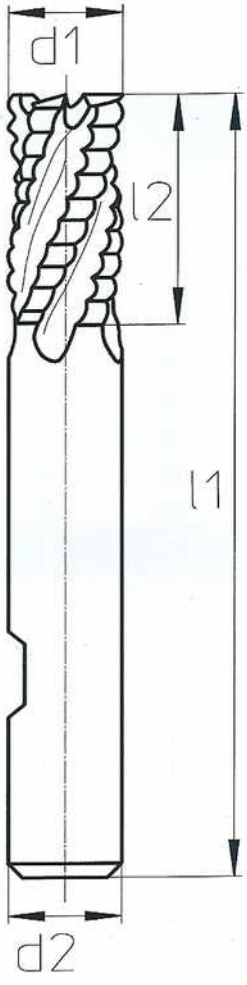


d1	d2	l2	l1	Z	COBA 8 (R) code	COBA 8 code
8	10	11	61	3	1F820008L	1F820008
10	10	13	63	3	1F820010L	1F820010
12	12	16	73	4	1F820012L	1F820012
14	12	16	73	4	1F820014L	1F820014
16	16	19	79	4	1F820016L	1F820016
18	16	19	79	4	1F820018L	1F820018
20	20	22	88	4	1F820020L	1F820020
22	20	22	88	4	1F820022L	1F820022
25	25	26	102	4	1F820025L	1F820025
30	25	26	102	5	1F820030L	1F820030



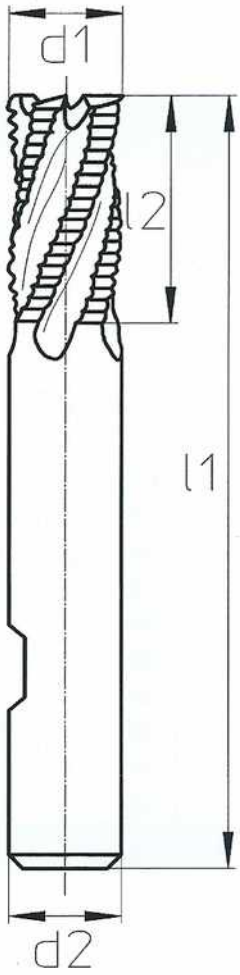


d1	PM				COBA 8				COBA 5			
	d2	l2	l1	Z	d2	l2	l1	Z	d2	l2	l1	Z
4									4	11	43	3
5	6	13	57	3	6	13	57	3	5	13	57	3
6	6	13	57	3	6	13	57	3	6	13	57	3
7	10	16	66	3	10	16	66	3	8	16	60	3
8	10	19	69	3	10	19	69	3	8	19	63	3
9	10	19	69	3	10	19	69	3	10	19	69	3
10	10	22	72	3	10	22	72	3	10	22	72	3
12	12	26	83	4	12	26	83	4	12	26	83	4
13					12	26	83	4	12	26	83	4
14	12	26	83	4	12	26	83	4	12	26	83	4
16	16	32	92	4	16	32	92	4	16	32	92	4
18	16	32	92	4	16	32	92	4	16	32	92	4
20	20	38	104	4	20	38	104	4	20	38	104	4
22	20	38	104	4	20	38	104	4	20	38	104	4
25	25	45	121	4	25	45	121	4	25	45	121	4
28	25	45	121	4	25	45	121	4	25	45	121	4
30	25	45	121	5	25	45	121	5	25	45	121	5
32	32	53	133	5	32	53	133	5	32	53	133	5
25					25	90	166	5				
28					25	90	166	5				
30					25	90	166	5				
32					32	106	186	5				

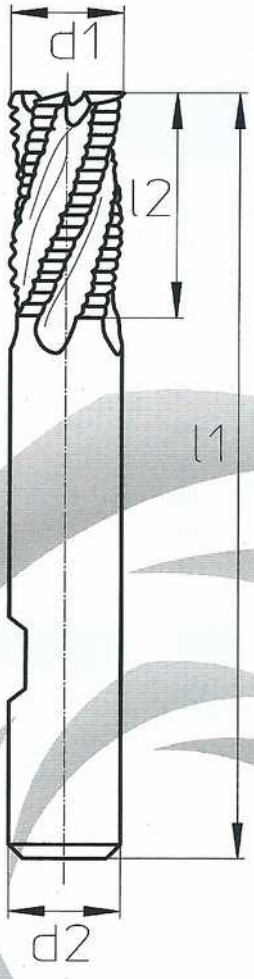


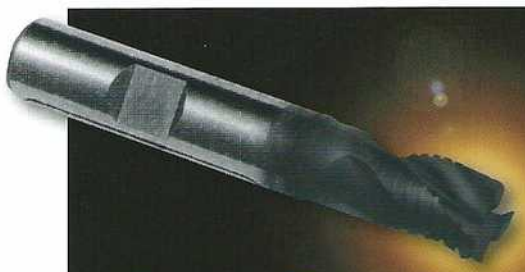
d1	PM	COBA 8 R	COBA 8	COBA 5
	code	code	code	code
4				1F531008
5	1FF10006	1F821010L	1F821010	1F531010
6	1FF10008	1F821012L	1F821012	1F531012
7	1FF10010	1F821014L	1F821014	1F531014
8	1FF10012	1F821016L	1F821016	1F531016
9	1FF10014	1F821018L	1F821018	1F531018
10	1FF10016	1F821020L	1F821020	1F531020
12	1FF10020	1F821024L	1F821024	1F531025
13		1F821026L	1F821026	1F531026
14	1FF10024	1F821028L	1F821028	1F531028
16	1FF10028	1F821032L	1F821032	1F531032
18	1FF10032	1F821036L	1F821036	1F531036
20	1FF10036	1F821040L	1F821040	1F531040
22	1FF10040	1F821048L	1F821048	1F531048
25	1FF10046	1F821054L	1F821054	1F531054
28	1FF10052	1F821060L	1F821060	1F531060
30	1FF10056	1F821064L	1F821064	1F531064
32	1FF10060	1F821068L	1F821068	1F531068

d1	d2	l2	l1	Z	COBA 8 (R) code	COBA 8 code
8	10	19	69	3	1F822016L	1F822016
10	10	22	72	3	1F822020L	1F822020
12	12	26	83	4	1F822024L	1F822024
14	12	26	83	4	1F822024L	1F822028
16	16	32	92	4	1F822032L	1F822032
18	16	32	92	4	1F822036L	1F822036
20	20	38	104	4	1F822040L	1F822040



d1	d2	l2	l1	Z	COBALU code
12	12	26	83	3	1FL11012
14	12	26	83	3	1FL11014
16	16	32	92	3	1FL11016
18	16	32	92	3	1FL11018
20	20	38	104	3	1FL11020
22	20	38	104	3	1FL11022
25	25	45	121	3	1FL11025
28	25	45	121	3	1FL11028
30	25	45	121	3	1FL11030
32	32	53	133	3	1FL11032

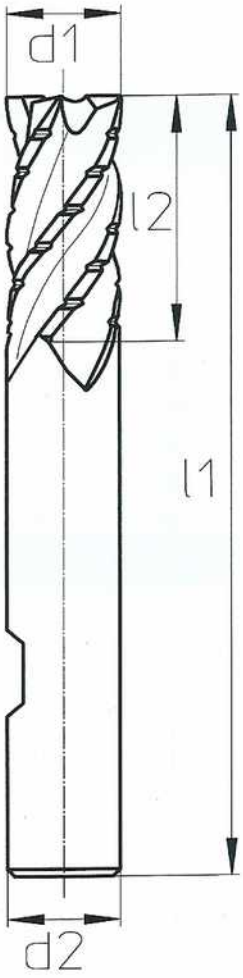




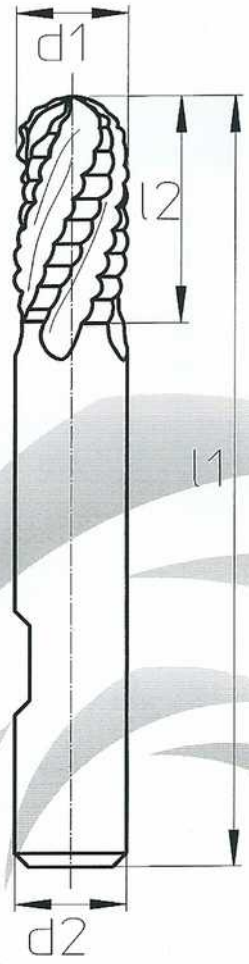
2 TAILLES EBAUCHE
ROUGHING END MILLS
SCHRUPPFRÄSER
FRESAS FRONTALES DE DESBASTE

Pour Inox
For Stainless Steel
Für Rostfrei Stahl
Para Acero Inoxidable

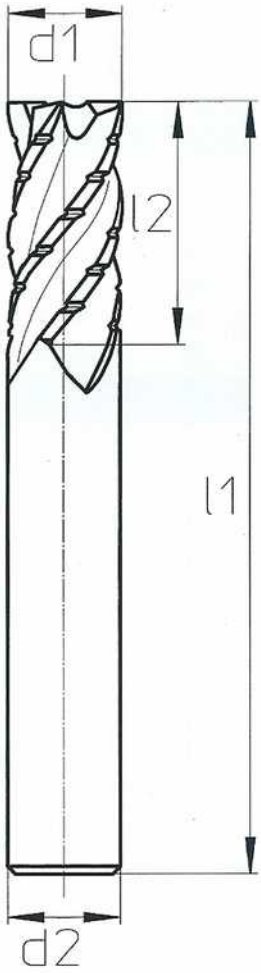
d1	d2	l2	l1	Z	COBINOX (R) code
6	6	13	57	3	1FT08010K
8	10	19	69	3	1FT08014K
10	10	22	72	3	1FT08018K
12	12	26	83	4	1FT08022K
14	12	26	83	4	1FT08026K
16	16	32	92	4	1FT08030K
18	16	32	92	4	1FT08034K
20	20	38	104		1FT08038K
22	20	38	104	4	1FT08042K
25	25	45	121	4	1FT08048K
28	25	45	121	4	1FT08054K
30	25	45	121	5	1FT08058K
32	32	53	133	5	1FT08062K



d1	d2	l2	l1	Z	COBA 8 code
6	6	13	57	3	1F831006
8	10	19	69	3	1F831010
10	10	22	72	3	1F831014
12	12	26	83	4	1F831018
16	16	32	92	4	1F831026
20	20	38	104	4	1F831034

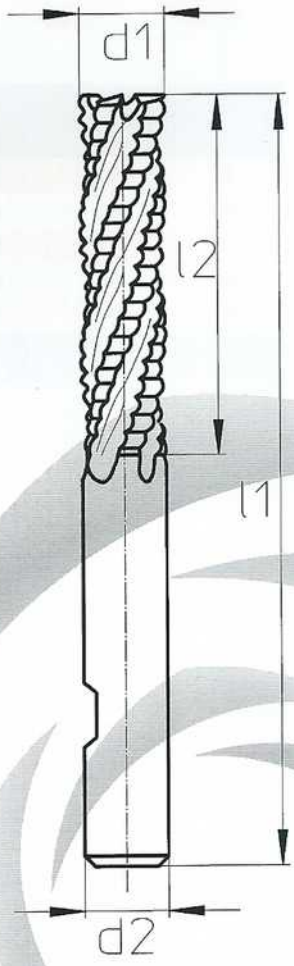


d1	d2	l2	l1	Z	COBA 5 code
8	8	19	63	3	1F530020
10	10	22	72	3	1F530024
12	12	26	83	4	1F530028
14	12	26	83	4	1F530032
16	16	32	92	4	1F530036
18	16	32	92	4	1F530040
20	20	38	104	4	1F530044

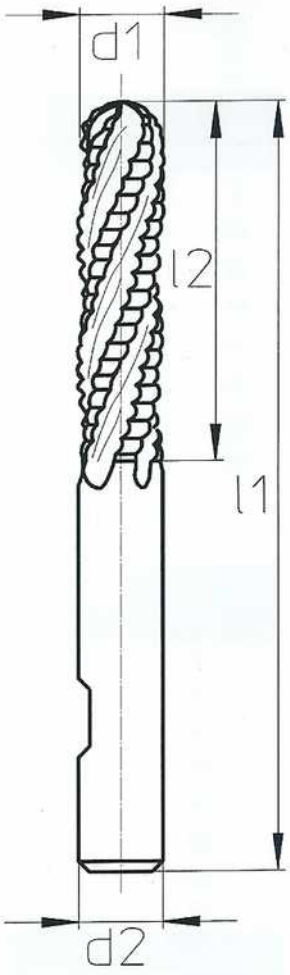


d1	PM				COBA 8			
	d2	l2	l1	Z	d2	l2	l1	Z
8	10	38	88	3	10	38	88	3
10	10	45	95	3	10	45	95	3
12	12	53	110	4	12	53	110	4
14					12	53	110	4
16	16	63	123	4	16	63	123	4
20	20	75	141	4	20	75	141	4
25	25	90	166	4				
32	32	106	186	5				

d1	PM	COBA 8
	code	code
8	1FF08014	1F830008
10	1FF08018	1F830012
12	1FF08022	1F830016
14		1F830020
16	1FF08030	1F830024
20	1FF08038	1F830032
25	1FF08048	
32	1FF08062	



d1	d2	l2	l1	Z	COBA 8 code
8	10	38	88	3	1F832008
10	10	45	95	3	1F832012
12	12	53	110	4	1F832016
16	16	63	123	4	1F832024
20	20	75	141	4	1F832032



d1	d2	b	l1	COBA 5 code
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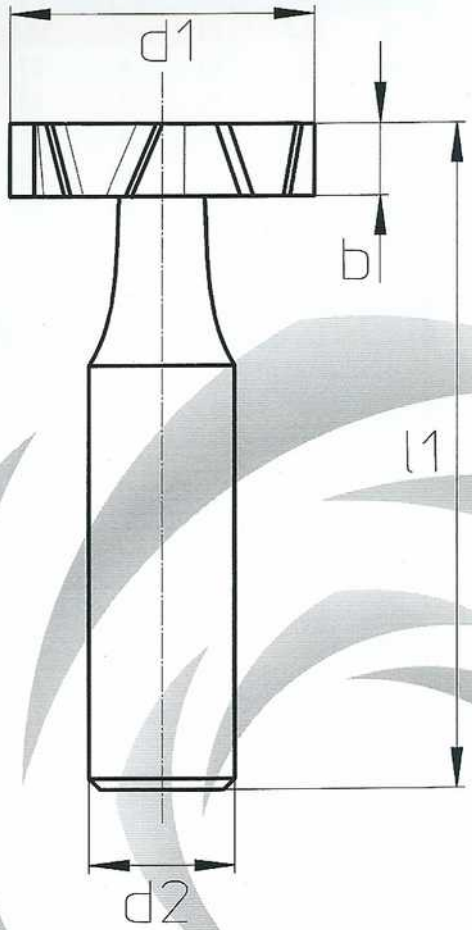
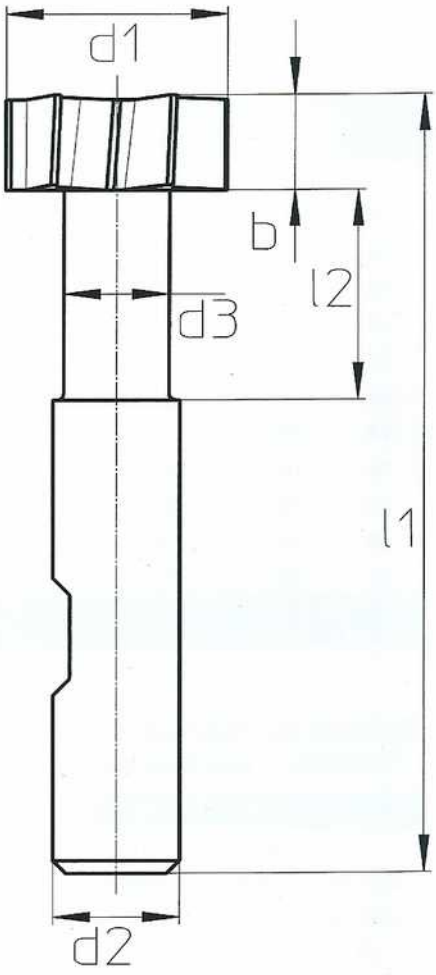
10	12	2 - 2,5 - 3	52	1F536010 U 1F536012
13	12	2 - 2,5 - 3 - 4	52	1F536013 U 1F536016
16	12	2,5 - 3 - 4 - 5	53	1F536017 U 1F536020
19	12	3 - 4 - 5 - 6	53	1F536021 U 1F536024
22	12	4 - 5 - 6	54	1F536025 U 1F536027
25	12	5 - 6 - 7 - 8	55	1F536028 U 1F536031
28	12	5 - 6 - 7 - 8	55	1F536032 U 1F536035
32	12	5 - 6 - 7 - 8	55	1F536036 U 1F536039
35	12	6 - 8	56	1F536040 U 1F536041
38	12	7 - 8 - 10	60	1F536042 U 1F536044
45	16	8 -10	63	1F536045 U 1F536046



Tolérances / Tolerances / Toleranz / Tolerancias

d1	max	min
7	+0,25	+0,15
10 U 13	+0,3	+0,2
16 U 19	+0,5	+0,3
22	+0,6	+0,4
25 U 45	+0,8	+0,5

d1	b	d2	d3	l1	l2	z	COBA 5 code
11	3,5	10	4	53,5	10	8	1F541102
12,5	6	10	5	57	11	8	1F541104
16	8	10	7	62	14	8	1F541106
18	8	12	8	70	17	8	1F541108
21	9	12	10	74	20	8	1F541110
25	11	16	12	82	23	8	1F541112
32	14	16	15	90	28	8	1F541114
40	18	25	19	108	34	8	1F541116



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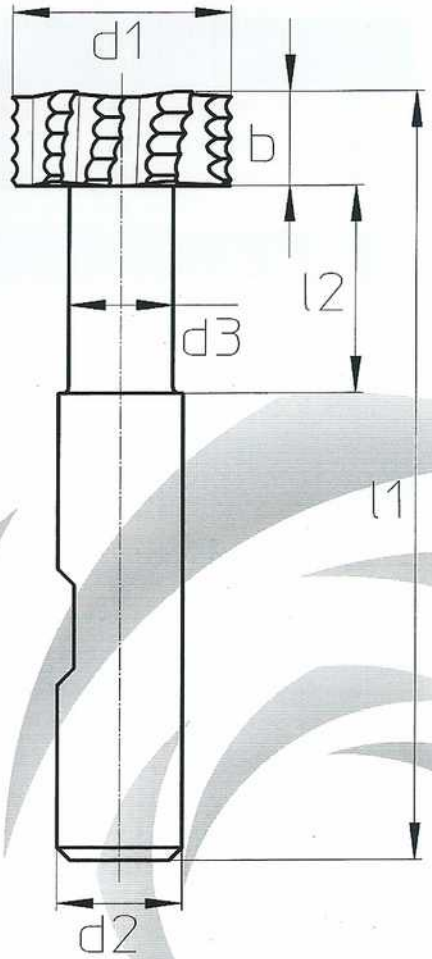
d1	b	d2	d3	l1	l2	z	COBA 5 code
16	8	10	7	62	14	6	1F542106
18	8	12	8	70	17	6	1F542108
21	9	12	10	74	20	6	1F542110
25	11	16	12	82	23	6	1F542112
32	14	16	15	90	28	8	1F542114



CONIQUES
DOVETAIL CUTTER
WINKELFRÄSER
FRESAS CÓNICAS

Type A
A Type
Typ A
Tipo A

$\alpha = 45°$

d1	d2	l1	b	Z	COBA 5 code
16	12	56	4	10	1F534016
20	12	56	5	12	1F534020
25	12	63	6,5	12	1F534025
32	12	63	8	14	1F534032

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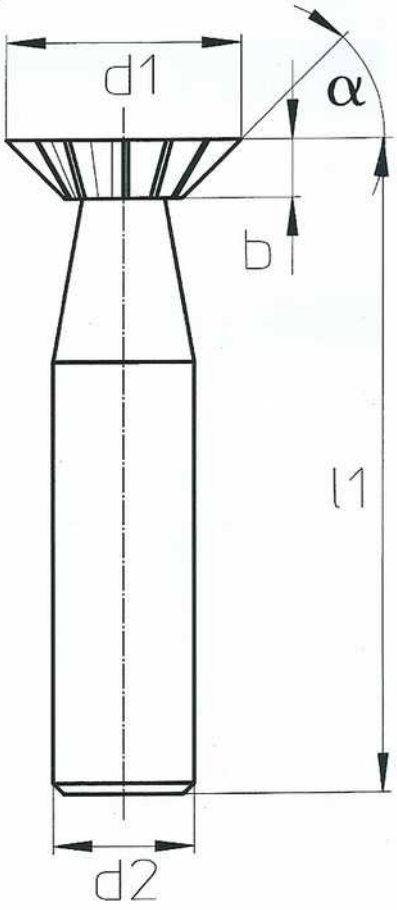
d1	d2	l1	b	Z	COBA 5 code
16	12	56	6	10	1F539016
20	12	56	8	12	1F539020
25	12	63	10	12	1F539025
32	12	63	12	14	1F539032



CONIQUES
DOVETAIL CUTTER
WINKELFRÄSER
FRESAS CÓNICAS

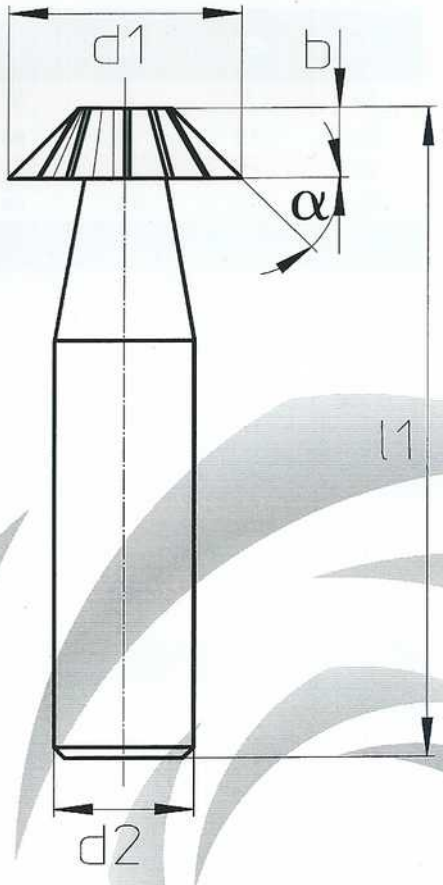
Type B
B Type
Typ B
Tipo B

α = **45°**

d1	d2	l1	b	z	COBA 5 code
16	12	56	5	10	1F535016
20	12	56	6	12	1F535020
25	12	63	7,5	12	1F535025
32	12	63	9	14	1F535032

α = **60°**

d1	d2	l1	b	z	COBA 5 code
16	12	56	6	10	1F540016
20	12	56	8	12	1F540020
25	12	63	10	12	1F540025
32	12	63	13	14	1F540032

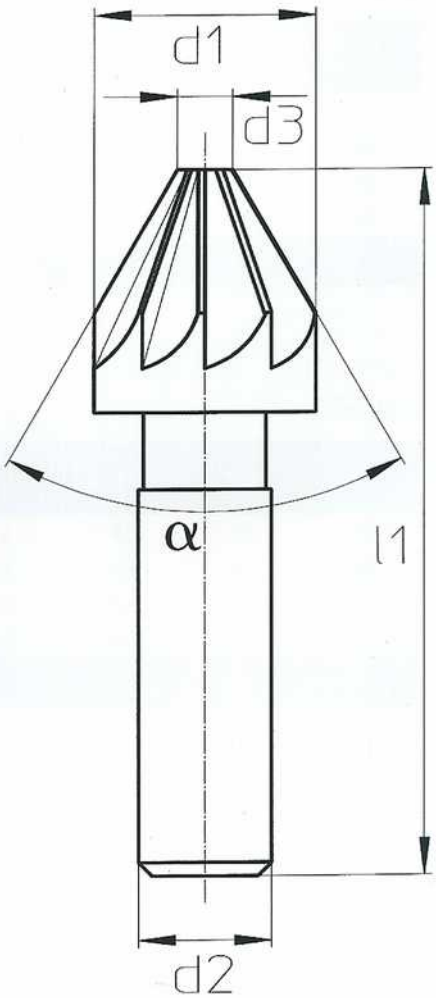


α = **60°**

d1	d2	l1	b	Z	COBA 5 code
10	8	3	50	1FH34010	1F534016
16	12	4	60	1FH34014	1F534020
20	12	5	64	1FH34018	1F534025
25	16	6,5	69	1FH34022	1F534032

α = **90°**

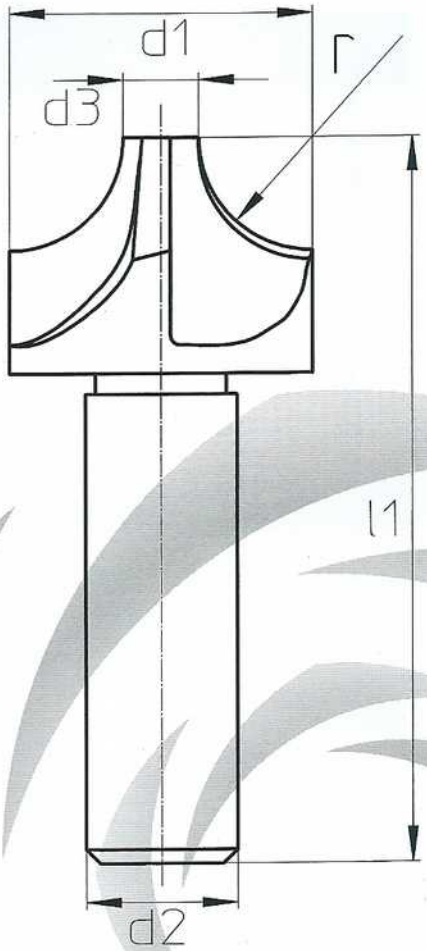
d1	d2	l1	b	Z	COBA 5 code
10	8	3	46	1FH34012	1F539016
16	12	4	56	1FH34016	1F539020
20	12	5	60	1FH34020	1F539025
25	16	6,5	65	1FH34025	1F539032



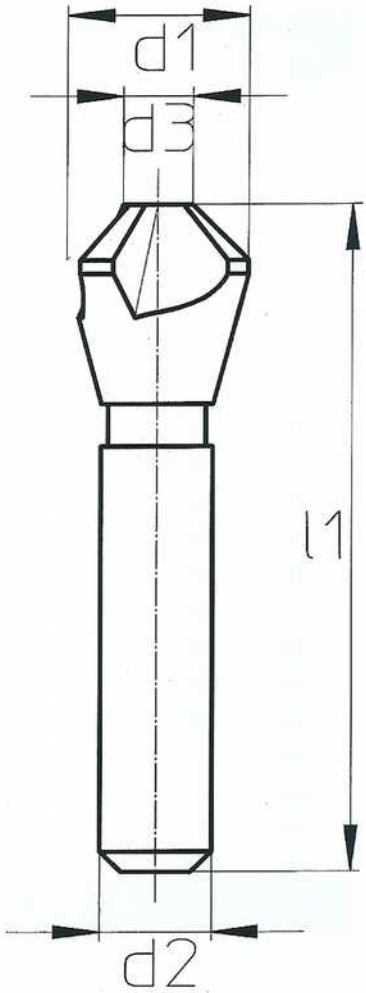
1/4 DE CERCLE
QUARTER CIRCLE CUTTER
VIERTELKREISFRÄSER
FRESAS DE RADIOS, 1/4 DE CÍRCULO

Profil Constant
Constant Profile
Konstantes Profil
Perfil Constante

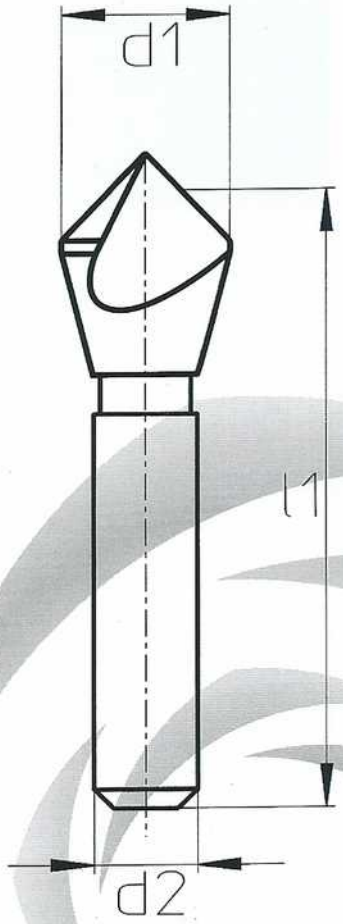
r (N11)	d1	d2	d3	l1	z	HSS code
1	8	6	6	49	3	1FH37010
1,5	9	6	6	49	3	1FH37015
2	10	6	6	50	3	1FH37020
2,5	11	8	6	53	3	1FH37025
3	12	8	6	54	3	1FH37030
3,5	13	8	6	55	3	1FH37035
4	14	8	6	56	3	1FH37040
4,5	15	12	6	63	3	1FH37045
5	16	12	6	64	3	1FH37050
6	18	12	6	66	4	1FH37060
7	21	12	7	67	4	1FH37070
8	23	12	7	68	4	1FH37080
9	25	12	7	69	4	1FH37090
10	27	12	7	70	4	1FH37100
11	30	12	8	71	4	1FH37110
12	32	16	8	77	5	1FH37120
13	35	16	9	78	5	1FH37130
14	38	16	10	80	5	1FH37140
15	40	20	10	83	5	1FH37150
16	44	20	12	84	5	1FH37160
18	50	20	14	87	6	1FH37180
20	55	20	15	89	6	1FH37200



d3	d1	d2	l1	COBA 5 code
2	6,3	6	42	1F537002
2	8,3	6	43	1F537004
2,5	10,4	6	45	1F537006
3	12,4	8	48	1F537008
4	16,5	8	51	1F537010
5	20,5	10	60	1F537012
6	25	12	68	1F537014
7	28	12	70	1F537016
9	30	12	66	1F537017
10	35	16	75	1F537018
13	38	16	75	1F537019



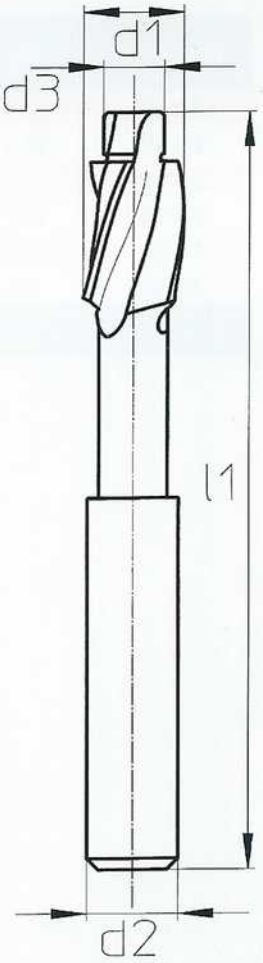
Capacité	d1	d2	l1	HSS code
2 à 10	10,4	6	45	
2 à 12	12,4	8	48	1F538002
2 à 16	16,5	8	51	1F538004
2 à 20	20,5	10	60	1F538006
3 à 25	25	12	68	1F538008
3 à 28	28	12	70	1F5380010



FRAISE À LAMER

COUNTERBORE
SENKER
AVELLANADOR

VIS Screw Schaub Tornillo	180° Nouvelles Normes New Standards Neue Normen Normas Nuevas				Anciennes Normes / Old Standards / Alten Normen / Normas Antiguas											
	HSS				HSS				HSS				HSS			
	d3	d1	d2	l1	d3	d1	d2	l1	d3	d1	d2	l1	d3	d1	d2	l1
M 1	1,2	2,2	2,2	45												
M 1,2	1,4	2,5	2,5	45												
M 1,4	1,6	2,8	2,8	45												
M 1,5					1,5	3,2	3	60					1,5	3,2	3	60
M 1,6	1,8	3,3	3	60												
M 1,7	1,9	3,8	3	60												
M 2	2,4	4,3	4	60	2	4,2	4	60					2	4,2	4	60
M 2,3	2,7	5	5	60												
M 2,5	2,9	5	5	60	2,5	5,2	5	62	2,5	4,2	4	60	2,5	5,2	5	62
M 2,6	3	5,5	5	71												
M 3	3,4	6	5	71	3	6,2	6	65	3	5,7	5	65	3	5,2	5	62
M 3,5	3,9	6,5	5	71	3,5	7,2	7	70	3,5	6,2	6	65	3,5	6,2	6	65
M 4	4,5	8	5	71	4	8,2	8	71	4	7,2	7	70	4	7,2	7	70
M 4,5					4,5	9,2	9	80	5	8,2	8	71	4,5	7,2	7	70
M 5	5,5	10	8	80	5	10,2	10	82	5	8,7	8	80	5	8,2	8	71
									5	9,2	9	80	5,5	9,2	9	80
M 6	6,6	11	8	80	6	12,2	12	85	6	10,2	10	82	6	10,2	10	82
					7	14,2	12	100	7	12,2	12	85	7	12,2	12	85
					7,5	15,2	12	100								
M 8	9	15	12,5	100	8	16,2	12	100	8	13,2	12	95	8	14,2	12	100
					9	18,2	12	100	9	14,2	12	100	9	16,2	12	100
M 10	11	18	12,5	100	10	20,2	12	100	10	16,2	12	100	10	17,2	12	100
									11	17,2	12	100	10	18,2	12	100
													11	19,2	12	100
M 12	14	20	12,5	100					12	18,2	12	100				
									12	19,2	12	100				



VIS Screw Schaub Tornillo	180°	Anciennes Normes / Old Standards / Alten Normen / Normas Antiguas		
	Nouvelles Normes New Standards Neue Normen Normas Nuevas			
	HSS	HSS	HSS	HSS
	Code	Code	Code	Code
M 1	1FH48022			
M 1,2	1FH48025			
M 1,4	1FH48028			
M 1,5		1FH40032		1FH41032
M 1,6	1FH48033			
M 1,7	1FH48038			
M 2	1FH48043	1FH40042		1FH41042
M 2,3	1FH48050			
M 2,5	1FH48053	1FH40052	1FH39042	1FH41052
M 2,6	1FH48055			
M 3	1FH48060	1FH40062	1FH39057	1FH41054
M 3,5	1FH48065	1FH40072	1FH39062	1FH41062
M 4	1FH48080	1FH40082	1FH39072	1FH41072
M 4,5		1FH40092	1FH39082	1FH41073
M 5	1FH48100	1FH40102	1FH39087	1FH41082
			1FH39092	1FH41092
M 6	1FH48110	1FH40122	1FH39102	1FH41102
		1FH40142	1FH39122	1FH41122
		1FH40152		
M 8	1FH48150	1FH40162	1FH39132	1FH41132
		1FH40182	1FH39142	1FH41162
M 10	1FH48180	1FH40202	1FH39162	1FH41172
			1FH39172	1FH41182
				1FH41192
M 12	1FH48200		1FH39182	
			1FH39192	

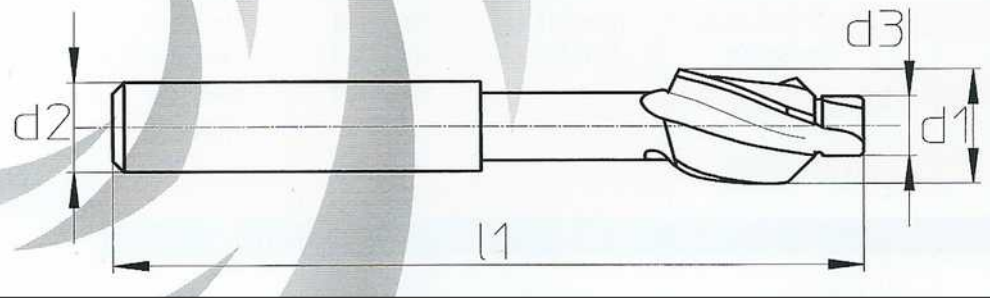
FRAISE A LAMER

COUNTERBORE
SENKER
AVELLANADOR

HSS
COBA5
COBA8
PM

(DIN1866)

90°	Nouvelles Normes New Standards Neue Normen Normas Nuevas				Anciennes Normes Old Standards Alten Normen Normas Antiguas				Nouvelles Normes New Standards Neue Normen Normas Nuevas	Anciennes Normes Old Standards Alten Normen Normas Antiguas
VIS Screw Schaub Tornillo									HSS	HSS
VIS	d3	d1	d2	l1	d3	d1	d2	l1	code	code
M 1	1,2	2,4	2,4	45					1FH47024	
M 1,2	1,4	2,8	2,8	45					1FH47028	
M 1,4	1,6	3,3	3	60					1FH47033	
M 1,5					1,5	3,2	3	60		1FH43032
M 1,6	1,8	3,7	3	60					1FH47037	
M 1,8	2	4,2	4	60					1FH47042	
M 2	2,4	4,6	4	60	2	4,2	4	60	1FH47046	1FH43042
M 2,5	2,9	5,7	5	71	2,5	5,2	5	62	1FH47057	1FH43052
M 3	3,4	6,5	5	71	3	6,2	6	65	1FH47065	1FH43062
M 3,5	3,9	7,6	5	71	3,5	7,2	7	70	1FH47076	1FH43072
M 4	4,5	8,6	8	80	4	8,2	8	71	1FH47086	1FH43082
					4,5	9,2	9	80		1FH43092
M 5	5,5	10,4	8	80	5	10,2	10	82	1FH47104	1FH43102
M 6	6,6	12,4	8	80	6	12,2	12	85	1FH47124	1FH43122
					7	14,2	12	100		1FH43142
M 8	9	16,4	12,5	100	8	16,2	12	100	1FH47164	1FH43162
					9	18,2	12	100		1FH43182
M 10	11	20,4	12,5	100	10	20,2	12	100	1FH47204	1FH43202



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MINEO Outillages & Machines
BP:49 - rue Charles Longuet – Parc d'activité Le Brasseur – 59690 Vieux-Condé (FRANCE)
Web:mom-france.eu ✉: mom@mom-france.eu **Tel** : (33) 03 27 25 00 62 **Fax** : (33) 03 27 25 03 06