

BURS

Explanation to the different types of cut

FRÄSSTIFTE

Erklärung zu den unterschiedlichen Verzahnungen

FRAISES ROTATIVE

Explication sur tous les dentures différentes

	Cut 1	Aluminium Cut Aggressive stock removal on nonferrous metals and plastics. Special surface treatment for better chip evacuation to prevent clogging of the tool	Aluminiumverzahnung Starke Spanabnahme in Nicht-eisenmetalle und Kunststoffe. Spezielle Oberflächenbehandlung für verbesserter Spanabfuhr gegen das Vollaufen des Werkzeuges	Denture Aluminium Enlèvement agressif de matière en métaux non-ferreux et plastiques. Traitement de surface spécialement pour une évacuation des copeaux amélioré contre bourrage
	Cut 3	Standard Cut General purpose cut for almost all ferrous metals producing long chips and combines efficiency with good surface quality	Normalverzahnung Allgemeine Verwendung für nahezu alle Metalle, gibt lange Späne und kombiniert Effizienz mit guter Oberflächenqualität	Denture Standard Denture à usage général pour presque toutes les métaux, produit des copeaux longs et combine efficacité avec une bonne finition
	Cut 4	Diamond Cut Recommended for heat treated and tough (high) alloy steels, stainless steels and CrNi steels where good operator control and excellent surface finish are required	Diamantverzahnung Empfiehlt für gehärtete und zähe legierte Stähle, Rostfreie und CrNi-Stähle wo gute Bedienungskontrolle und Oberflächengüte bedingt sind	Denture Diamant Recommandé pour aciers trempés et alliages durs, aciers inoxydables et en CrNi, où il est important d'avoir un bon contrôle et bonne finition
	Cut 6	Double Cut Very efficient stock removal on all ferrous metals including tempered and stainless steels, creates small chips, reduces vibrations and gives excellent operator control	Kreuzverzahnung Sehr effiziente Spanabnahme in alle Eisenmetalle inklusive gehärtete und Rostfreie Stähle, gibt kleine Späne und eine sehr gute Bedienungskontrolle	Denture Croisée Enlèvement très efficace sur tous métaux ferreux et aciers inoxydables. Produits des copeaux courts avec une bonne finition et un bon contrôle
	Cut 8	Fine Double Cut Recommended on tempered high tensile mould and die steels up to 66 HRC where small chips, excellent surface finish and excellent operator control are required	Feine Kreuzverzahnung Empfehlenswert für alle gehärtete und zugfeste Matrizen- und Formenstähle bis zu 66 HRC, da wo kleine Späne, exzellente Oberflächengüte und Bedienungskontrolle bedingt sind	Denture Croisée Fine Recommandé pour tous aciers (trempé) pour des moules et matrices jusqu'à 66HRC, où il est important d'avoir une finition excellente et un bon contrôle
	Cut 9	Straight Cut Similar to the standard cut (Cut 3) however without axial forces during operation	Gerade Verzahnung Ähnlich der Normalverzahnung (Cut 3) jedoch ohne Axialkräfte	Denture Droite Comme denture Standard (Cut 3) cependant sans des forces axiales

*) To order a non-catalogued item, please specify the item (for example "SC 5") and its desired cut (for example "cut 9")

STTV

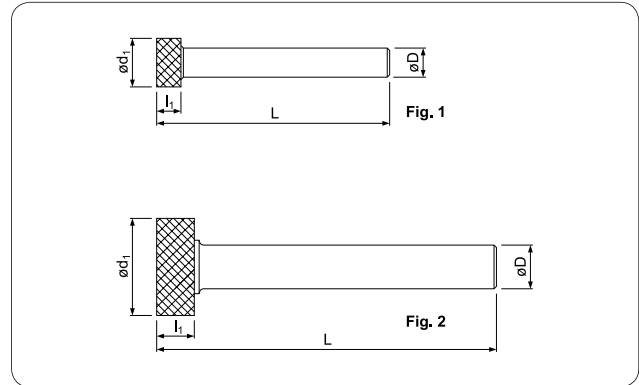
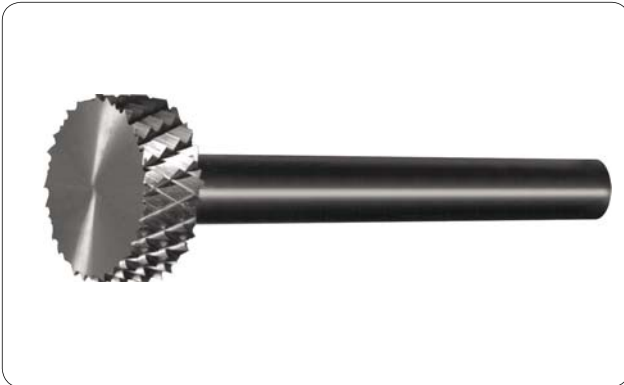
Rotary carbide bur
ground from one piece of
solid carbide, plane head
without end cut

STTV

Vollhartmetall Frässtifte
geschliffen aus einem Stück
Hartmetall, flache Stirn ohne
Verzahnung

STTV

Fraises rotatives en carbure
monobloc, bout plan et sans
denture

**GRP
F13****FAM
151**

Item Nr.	Designation	$\varnothing d_1$	l_s	L	$\varnothing D$	Fig.	SC2000	SC2040
16.13 ...	STTV 052	5,0	2	40	3	1	...1001	...1022
16.13 ...	STTV 063	6,0	3	40	3	1	...1002	...1023
16.13 ...	STTV 083	8,0	3	40	3	1	...1003	...1024
16.13 ...	STTV 123	12,0	3	40	3	1	...1004	...1025
16.13 ...	STTV 1236	12,0	3	60	6	2	...1005	...1026
16.13 ...	STTV 124	12,0	4	60	6	2	...1006	...1027
16.13 ...	STTV 126	12,0	6	60	6	2	...1007	...1028
16.13 ...	STTV 163	16,0	3	60	6	2	...1008	...1029
16.13 ...	STTV 166	16,0	6	60	6	2	...1009	...1030
16.13 ...	STTV 226	22,0	6	80	8	2	...1010	...1031

*) Made from one integral piece of solid carbide to improve stability and tool life /
Aus einem Stück Vollhartmetall geschliffen zur Verbesserung der Stabilität und Standzeit /
Affûter d'une pièce de carbure monobloc pour l'amélioration de la stabilité et durabilité

*) Can be used in air grinder as well as in CNC milling centers /
Kann in Luftschleifer so wie auch in CNC Fräszentern verwendet werden /
Pour l'utilisation dans meulheuses ou des centres fraisage CNC

*) SC2000 = Solid carbide / Vollhartmetall / carbure monobloc
SC2040 = SC2000 + TiAlN

Ordering example :

10 pcs STTV 083 SC2000 (Item number 16.13.1003)
10 pcs STTV 163 SC2040 (Item number 16.13.1029)

STV

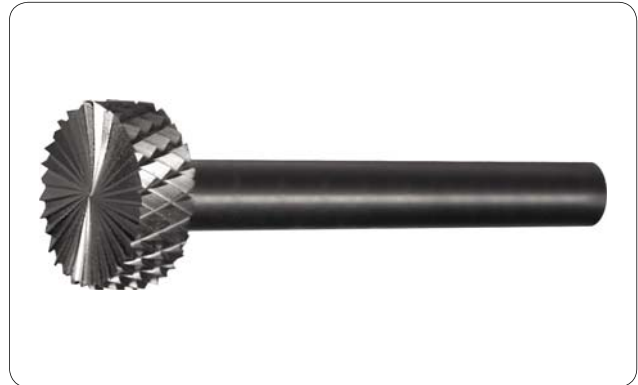
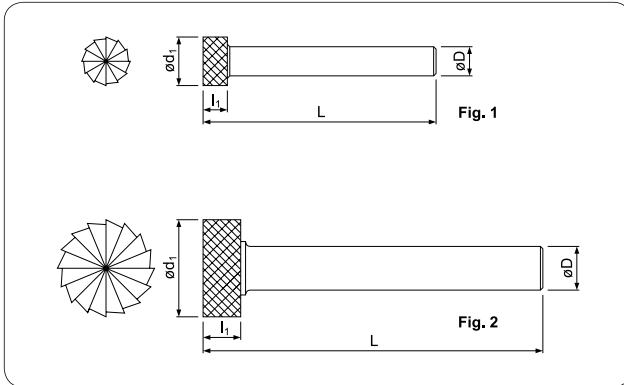
Rotary carbide bur
ground from one piece of
solid carbide, with end cut

STV

Vollhartmetall Frässtifte
geschliffen aus einem Stück
Hartmetall,
mit Stirnverzahnung

STV

Fraises rotatives en carbure
monobloc, denté en bout

**GRP
F13****FAM
152**

Item Nr.	Designation	ød ₁	l _s	L	øD	Fig.	SC2000	SC2040
16.13 ...	STV 052	5,0	2	40	3	1	...1011	...1032
16.13 ...	STV 063	6,0	3	40	3	1	...1012	...1033
16.13 ...	STV 083	8,0	3	40	3	1	...1013	...1034
16.13 ...	STV 123	12,0	3	40	3	1	...1014	...1035
16.13 ...	STV 1236	12,0	3	60	6	2	...1015	...1036
16.13 ...	STV 124	12,0	4	60	6	2	...1016	...1037
16.13 ...	STV 126	12,0	6	60	6	2	...1017	...1038
16.13 ...	STV 163	16,0	3	60	6	2	...1018	...1039
16.13 ...	STV 164	16,0	4	60	6	2	...1019	...1040
16.13 ...	STV 166	16,0	6	60	6	2	...1020	...1041
16.13 ...	STV 226	22,0	6	80	8	2	...1021	...1041

*) Made from one integral piece of solid carbide to improve stability and tool life /
Aus einem Stück Vollhartmetall geschliffen zur Verbesserung der Stabilität und Standzeit /
Affûter d'une pièce de carbure monobloc pour l'amélioration de la stabilité et durabilité

*) Can be used in air grinder as well as in CNC milling centers /
Kann in Luftscheifer so wie auch in CNC Fräszentern verwendet werden /
Pour l'utilisation dans meulheuses ou des centres fraisage CNC

*) SC2000 = Solid carbide / Vollhartmetall / carbure monobloc
SC2040 = SC2000 + TiAlN

*) Back side is fluted / Rückseite ist verzahnt / l'arrière est denté

Ordering example :

10 pcs STV 083 SC2000 (Item number 16.13.1013)

10 pcs STV 163 SC2040 (Item number 16.13.1039)

SBX

Miniature rotary carbide bur
with single or double end cut
only

Shank : 3mm

SBX

Kleinfrässtifte aus Hartmetall
mit nur einseitiger oder
beidseitiger Stirnverzahnung

Schaft: 3mm

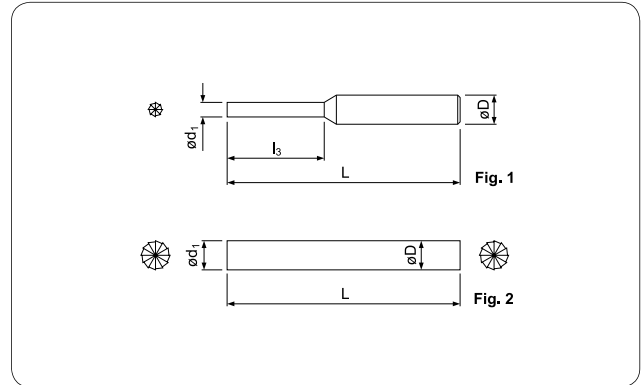
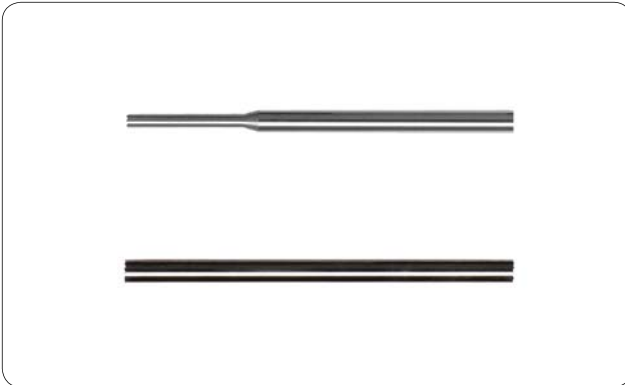
SBX

Fraises rotatives en carbure
miniature denté en bout
simple ou double seulement

Queue : 3 mm

GRP
F11

FAM
123



Item Nr.	Designation	$\varnothing d_1$	L	$\varnothing D$	l_3	Fig.	
16.13.1001	SBX 1715	1,7	50	3	15	1	
16.13.1003	SBX 42ML	1,7	75	3	25	1	
16.13.1004	SBX 43M-40	3,0	38	3		2	
16.13.1005	SBX 43M	3,0	50	3		2	
16.13.1006	SBX 43M	3,0	75	3		2	

*) End fluting on either one end or both ends, no side fluting /
Stirnverzahnung an entweder eine Stirne oder beide Stirnen, keine seitliche Verzahnung /
Denté en bout à un coté ou tous les deux, sans denture périphérique

Ordering example :

10 pcs SBX 1715 (Item number 16.11.1001)

SB

Miniature rotary carbide bur
form "B", cylinder with end cut

Shank : 3mm

SB

Kleinfrässtifte aus Hartmetall
Form "B", Zylinder mit
Stirnverzahnung

Schaft: 3mm

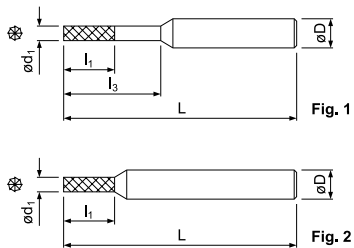
SB

Fraises rotatives en carbure
miniature forme "B",
cylindrique denté en bout

Queue : 3 mm

GRP
F11

FAM
124



Item Nr.	Designation	ød ₁	l ₃	L	øD	L3	Fig.	Cut 3	Cut 6	Cut 8
16.11 ...	SB 412S	1,2	7	50	3	15	1		...1007	
16.11 ...	SB 41	1,5	8	40	3		2	...1142	...1008	
16.11 ...	SB 41L	1,5	8	50	3		2		...1009	
16.11 ...	SB 41LS	1,5	8	75	3		2		...1010	
16.11 ...	SB 415S	1,5	7	50	3	15	1		...1011	
16.11 ...	SB 415	1,5	7	50	3	25	1		...1012	
16.11 ...	SB 417S	1,7	7	50	3	15	1		...1013	
16.11 ...	SB 417	1,7	7	50	3	25	1		...1014	...1106
16.11 ...	SB 417L	1,7	7	75	3	25	1		...1015	
16.11 ...	SB 217	1,7	15	50	3		2		...1016	
16.11 ...	SB 420S	2,0	10	40	3		2	...1144	...1024	
16.11 ...	SB 420	2,0	10	50	3	20	1		...1017	...1107
16.11 ...	SB 424	2,0	17	40	3		2		...1026	...1078
16.11 ...	SB 425	2,0	17	50	3		2		...1027	...1079
16.11 ...	SB 426	2,0	17	60	3		2		...1028	...1080
16.11 ...	SB 427	2,0	17	70	3		2		...1029	...1124
16.11 ...	SB 23	2,3	5	50	3	10	1		...1018	
16.11 ...	SB 423S	2,3	10	50	3	15	1		...1019	
16.11 ...	SB 423	2,3	10	50	3	25	1		...1020	...1108
16.11 ...	SB 42	2,5	11	40	3		2		...1021	
16.11 ...	SB 42L	2,5	11	50	3		2		...1022	
16.11 ...	SB 42LS	2,5	11	75	3		2		...1023	
16.11 ...	SB 42LX	2,5	11	75	3	30	1		...1002	...1105

Ordering example :

10 pcs SB 424 -6 (Item number 16.11.1126)

10 pcs SB 424 -8 (Item number 16.11.1078)

SB

Miniature rotary carbide bur
form "B", cylinder with end cut

Shank : 3mm

SB

Kleinfrässtifte aus Hartmetall
Form "B", Zylinder mit
Stirnverzahnung

Schaft: 3mm

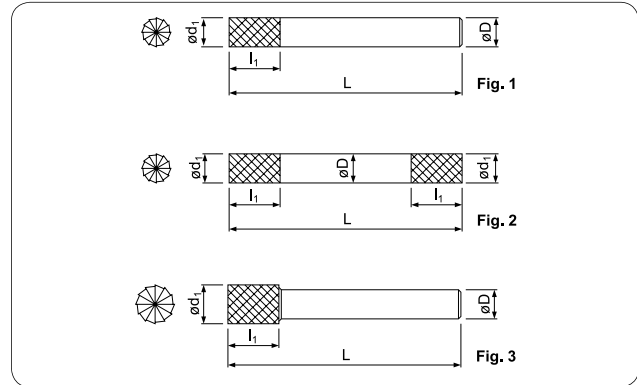
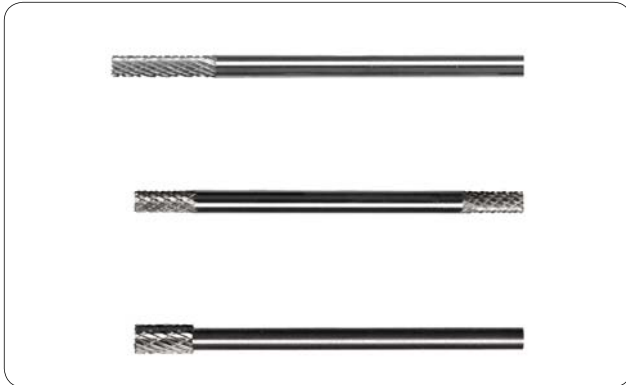
SB

Fraises rotatives en carbure
miniature forme "B",
cylindrique denté en bout

Queue : 3 mm

GRP
F11

FAM
125



Item Nr.	Designation	$\varnothing d_1$	l_1	L	$\varnothing D$	Fig.	Cut 3	Cut 6	Cut 8
16.11 ...	SB 45	3,0	7	50	3	2		...1032	
16.11 ...	SB 43	3,0	14	40	3	1		...1025	
16.11 ...	SB 12	3,0	14	50	3	1		...1026	...1109
16.11 ...	SB 12L	3,0	14	55	3	1		...1027	
16.11 ...	SB 103	3,0	14	65	3	1		...1028	...1110
16.11 ...	SB 103L-14	3,0	14	75	3	1		...1029	
16.11 ...	SB 103LS	3,0	14	100	3	1		...1031	
16.11 ...	SB 45ML	3,0	15	75	3	2		...1033	
16.11 ...	SB 434	3,0	17	40	3	1		...1130	...1113
16.11 ...	SB 435	3,0	17	50	3	1		...1131	...1114
16.11 ...	SB 436	3,0	17	60	3	1		...1132	...1115
16.11 ...	SB 437	3,0	17	70	3	1		...1133	...1116
16.11 ...	SB 103L	3,0	20	75	3	1		...1030	
16.11 ...	SB 46M	4,0	8	50	3	3		...1034	
16.11 ...	SB 464S	4,0	15	50	3	3		...1035	
16.11 ...	SB 464L	4,0	15	100	3	3		...1036	
16.11 ...	SB 52	5,0	12	79	3	3		...1037	
16.11 ...	SB 53	6,0	14	49	3	3	...1143	...1038	

Ordering example :

10 pcs SB 434 -6 (Item number 16.11.1130)

10 pcs SB 434 -8 (Item number 16.11.1113)

SB

Rotary carbide bur
form "B", cylinder with end cut

Shank : 6mm

SB

Frässtifte aus Hartmetall
Form "B", Zylinder mit
Stirnverzahnung

Schaft: 6mm

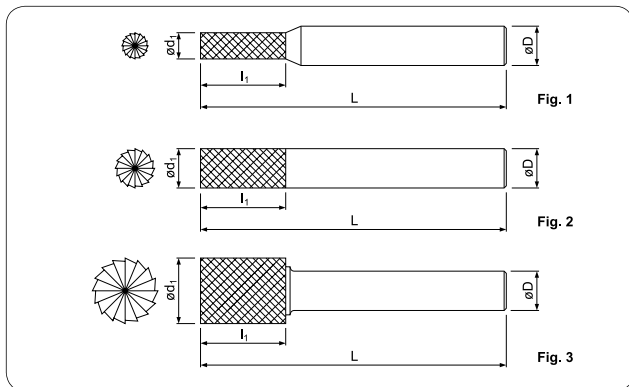
SB

Fraises rotatives en carbure
forme "B", cylindrique denté
en bout

Queue : 6 mm

GRP
F12

FAM
126



Item Nr.	Designation	$\varnothing d_1$	l_1	L	$\varnothing D$	Fig.	Cut 3	Cut 6	Cut 8
16.12 ...	SB 13	4,0	14	50	2	1	...1105	...1001	
16.12 ...	SB 1	6,0	18	50	2	2	...1106	...1002	...1188
16.12 ...	SB 1 VHM	6,0	18	65	2	2		...1003	...1189
16.12 ...	SB 1L VHM	6,0	25	75	2	2		...1004	...1190
16.12 ...	SB 1LS VHM	6,0	25	100	2	2		...1005	...1187
16.12 ...	SB 1LS6	6,0	18	168	2	2		...1006	
16.12 ...	SB 2	8,0	18	63	2	3	...1107	...1007	
16.12 ...	SB 3	10,0	20	63	2	3	...1108	...1008	...1191
16.12 ...	SB 3L	10,0	25	70	2	3		...1109	
16.12 ...	SB 3L6	10,0	20	170	2	3		...1110	
16.12 ...	SB 5	12,0	25	70	2	3	...1109	...1111	...1192
16.12 ...	SB 5L6	12,0	25	175	2	3		...1112	
16.12 ...	SB 6	16,0	25	70	2	3	...1110	...1013	
16.12 ...	SB 7	20,0	25	70	2	3	...1111	...1014	

Ordering example :

10 pcs SB 1 -6 (Item number 16.12.1002)

10 pcs SB 1 -8 (Item number 16.12.1188)

SC

Miniature rotary carbide bur form "C", cylinder with radius end

Shank : 3mm

SC

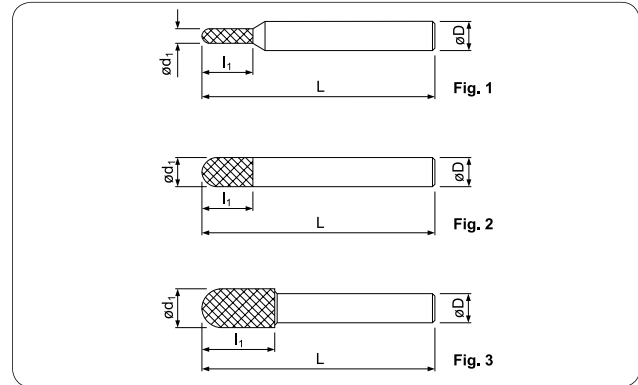
Kleinfrässtifte aus Hartmetall Form "C", Walzenrundform

Schaft: 3mm

SC

Fraises rotatives en carbure miniature forme "C", cylindrique à bout hémisphérique

Queue : 3 mm

**GRP
F11****FAM
127**

Item Nr.	Designation	ød ₁	l _s	L	øD	Fig.	Cut 3	Cut 6	Cut 8
16.11 ...	SC 158	1,5	8	40	3	1	...1145	...1039	
16.11 ...	SC 210	2,0	10	40	3	1	...1146	...1040	
16.11 ...	SC 215	2,0	15	50	3	1		...1041	
16.11 ...	SC 424	2,0	17	40	3	1		...1034	...1117
16.11 ...	SC 425	2,0	17	50	3	1		...1035	...1118
16.11 ...	SC 426	2,0	17	60	3	1		...1036	...1119
16.11 ...	SC 427	2,0	17	70	3	1		...1037	...1125
16.11 ...	SC 41	2,5	12	40	3	1	...1147	...1042	
16.11 ...	SC 42	3,0	14	40	3	2	...1148	...1043	
16.11 ...	SC 12	3,0	14	50	3	2		...1044	...1112
16.11 ...	SC 103	3,0	14	65	3	2		...1045	...1111
16.11 ...	SC 42L3	3,0	14	75	3	2		...1046	
16.11 ...	SC 434	3,0	17	40	3	2		...1138	...1120
16.11 ...	SC 435	3,0	17	50	3	2		...1139	...1121
16.11 ...	SC 436	3,0	17	60	3	2		...1140	...1122
16.11 ...	SC 437	3,0	17	70	3	2		...1141	...1123
16.11 ...	SC 52	4,0	10	40	3	3	...1149	...1047	
16.11 ...	SC 53	5,0	12	47	3	3	...1150	...1048	
16.11 ...	SC 51	6,0	14	49	3	3	...1151	...1049	
16.11 ...	SC 13M	4,0	15	50	4	2		...1050	
16.11 ...	SC 13ML	4,0	15	100	4	2		...1051	

Ordering example :

10 pcs SC 424 -6 (Item number 16.11.1134)

10 pcs SC 424 -8 (Item number 16.11.1117)

SC

Rotary carbide bur
form "C", cylinder with
radius end

Shank : 6mm

SC

Frässtifte aus Hartmetall
Form "C", Walzenrundform

Schaft: 6mm

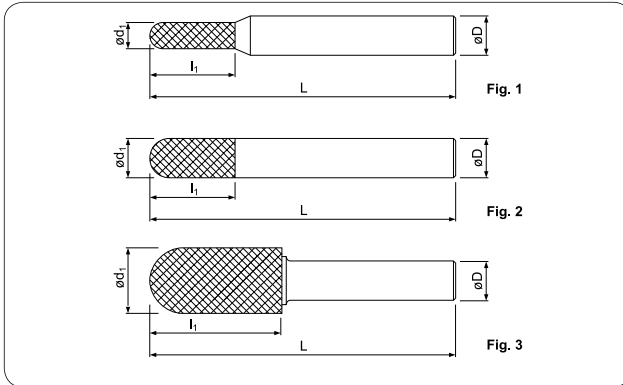
SC

Fraises rotatives en carbure
forme "C", cylindrique à bout
hémisphérique

Queue : 6mm

GRP
F12

FAM
128



Item Nr.	Designation	ød ₁	l ₁	L	øD	Fig.	Cut 3	Cut 6	Cut 8
16.12 ...	SC 13	4,0	14	50	6	1	...1112	...1015	
16.12 ...	SC 1	6,0	18	50	6	2	...1113	...1016	...1193
16.12 ...	SC 1 VHM	6,0	18	65	6	2		...1017	...1194
16.12 ...	SC 1L VHM	6,0	25	75	6	2		...1018	...1195
16.12 ...	SC 1L6	6,0	18	168	6	2		...1019	
16.12 ...	SC 2	8,0	18	60	6	3	...1114	...1020	
16.12 ...	SC 3	10,0	20	65	6	3	...1115	...1021	...1196
16.12 ...	SC 3L	10,0	25	70	6	3		...1022	
16.12 ...	SC 3L6	10,0	20	170	6	3		...1023	
16.12 ...	SC 5	12,0	25	70	6	3	...1116	...1024	...1197
16.12 ...	SC 5L6	12,0	25	175	6	3		...1025	
16.12 ...	SC 6	16,0	25	70	6	3	...1117	...1026	
16.12 ...	SC 7	20,0	25	70	6	3	...1118	...1027	

Ordering example :

10 pcs SC 1 -6 (Item number 16.12.1016)

10 pcs SC 1 -8 (Item number 16.12.1193)

SD

Miniature rotary carbide bur form "D", ball shape

Shank : 3mm

SD

Kleinfrässtifte aus Hartmetall Form "D", Kugelform

Schaft: 3mm

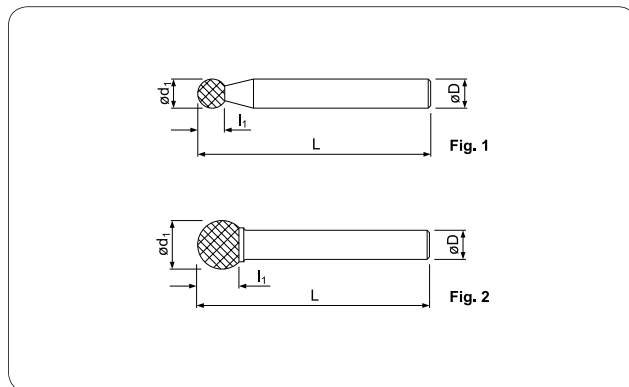
SD

Fraises rotatives en carbure miniature forme "D", sphérique

Queue : 3mm

**GRP
F11**

**FAM
129**



Item Nr.	Designation	$\varnothing d_1$	l_1	L	$\varnothing D$	Fig.	Cut 3	Cut 6	Cut 8
16.11 ...	SD 151	1,5	1	40	3	1	...1152	...1052	
16.11 ...	SD 215	2,0	2	40	3	1	...1153	...1053	
16.11 ...	SD 41	2,5	2	40	3	1	...1154	...1054	
16.11 ...	SD 42	3,0	3	40	3	1	...1155	...1055	
16.11 ...	SD 42L2	3,0	3	50	3	1	...1156	...1056	
16.11 ...	SD 42L3	3,0	3	75	3	1	...1157	...1057	
16.11 ...	SD 46	4,0	4	70	3	2	...1158	...1058	
16.11 ...	SD 53	5,0	4	39	3	2	...1159	...1059	
16.11 ...	SD 51	6,0	5	40	3	2	...1060	...1060	

Ordering example :

10 pcs SD 42 -3 (Item number 16.11.1155)

10 pcs SD 42 -6 (Item number 16.11.1055)

SD
Rotary carbide bur
form "D", ball shape

Shank : 6mm

SD
Frä斯塔ife aus Hartmetall
Form "D", Kugelform

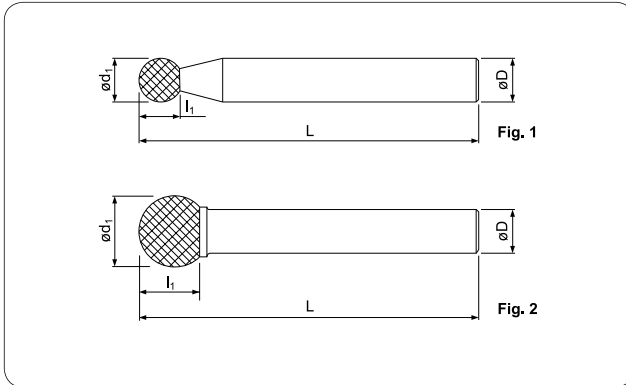
Schaft: 6mm

SD
Fraises rotatives en carbure
forme "D", sphérique

Queue : 6mm

GRP
F12

FAM
130



Item Nr.	Designation	$\varnothing d_1$	l_1	L	$\varnothing D$	Fig.	Cut 3	Cut 6	Cut 8
16.12 ...	SD 13	4,0	3	50	6	1	...1119	...1028	
16.12 ...	SD 1	6,0	5	50	6	1	...1120	...1029	
16.12 ...	SD 1L6	6,0	5	155	6	1		...1030	
16.12 ...	SD 2	8,0	7	50	6	2	...1121	...1031	
16.12 ...	SD 2	10,0	9	54	6	2	...1122	...1032	
16.12 ...	SD 3L6	10,0	9	159	6	2		...1033	
16.12 ...	SD 5	12,0	11	56	6	2	...1123	...1034	
16.12 ...	SD 5L6	12,0	11	161	6	2		...1035	
16.12 ...	SD 6	16,0	15	60	6	2	...1124	...1036	
16.12 ...	SD 7	20,0	18	63	6	2	...1125	...1037	

Ordering example :

10 pcs SD 1 -3 (Item number 16.12.1120)

10 pcs SD 1 -6 (Item number 16.12.1029)

SE

Miniature rotary carbide bur
form "E", oval shape

Shank : 3mm

SE

Kleinfrässtifte aus Hartmetall
Form "E", Tropfenform

Schaft : 3mm

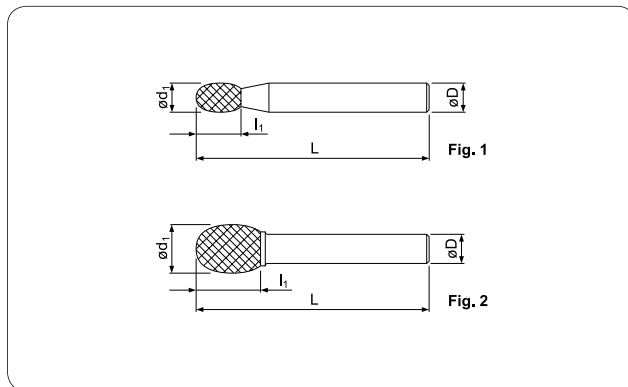
SE

Fraises rotatives en carbure
miniature forme "E", ovale

Queue : 3mm

GRP
F11

FAM
131



Item Nr.	Designation	$\varnothing d_1$	l_1	L	$\varnothing D$	Fig.	Cut 3	Cut 6	Cut 8
16.11 ...	SE 41	3,0	5	40	3	1	...1159	...1061	
16.11 ...	SE 41L2	3,0	5	50	3	1		...1062	
16.11 ...	SE 41L3	3,0	5	75	3	2		...1063	
16.11 ...	SE 46	4,0	6	41	3	2	...1160	...1162	
16.11 ...	SE 53	5,0	8	43	3	2	...1161	...1064	
16.11 ...	SE 51	6,0	9	44	3	2	...1162	...1065	

Ordering example :

10 pcs SE 46 -3 (Item number 16.11.1160)

10 pcs SE 46 -6 (Item number 16.11.1162)

SE
Rotary carbide bur
form "E", oval shape

Shank : 6mm

SE
Frässtifte aus Hartmetall
Form "E", Tropfenform

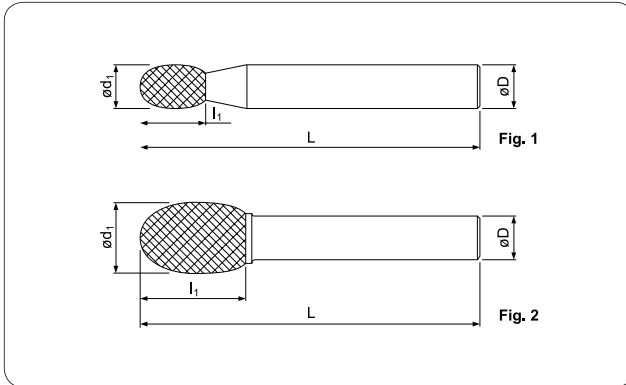
Schaft : 6mm

SE
Fraises rotatives en carbure
forme "E", ovale

Queue : 6mm

GRP
F12

FAM
132



Item Nr.	Designation	ød ₁	l ₁	L	øD	Fig.	Cut 3	Cut 6	Cut 8
16.12 ...	SE 1	6,0	9	50	6	1	...1126	...1038	
16.12 ...	SE 1L6	6,0	9	159	6	1		...1039	
16.12 ...	SE 2	8,0	14	59	6	2	...1127	...1040	
16.12 ...	SE 3	10,0	16	61	6	2	...1128	...1041	...1198
16.12 ...	SE 3L6	10,0	16	166	6	2		...1042	
16.12 ...	SE 5	12,0	21	66	6	2	...1129	...1043	...1199
16.12 ...	SE 5L6	12,0	21	171	6	2		...1044	
16.12 ...	SE 6	16,0	25	70	6	2	...1130	...1045	
16.12 ...	SE 7	20,0	25	70	6	2	...1131	...1046	

Ordering example :

10 pcs SE 2 -3 (Item number 16.12.1127)

10 pcs SE 2 -6 (Item number 16.12.1040)

SF

Miniature rotary carbide bur
form "F", tree shape with
radius end

Shank : 3mm

SF

Kleinfrässtifte aus Hartmetall
Form "F", Rundbogenform

Schaft : 3mm

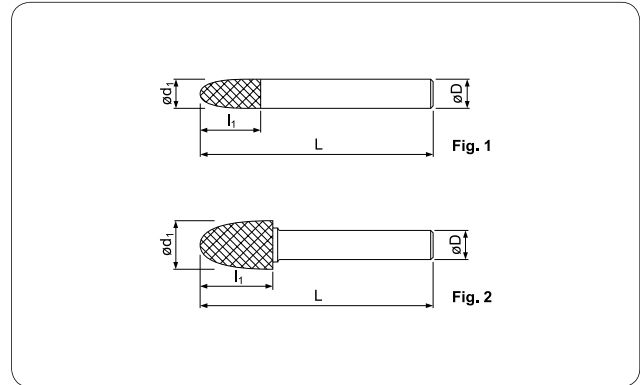
SF

Fraises rotatives en carbure
miniature forme "F", ogive à
bout hémisphérique

Queue : 3mm

GRP
F11

FAM
133



Item Nr.	Designation	$\varnothing d_1$	l_1	L	$\varnothing D$	Fig.	Cut 3	Cut 6	Cut 8
16.11 ...	SF 42	3,0	14	40	3	1	...1164	...1066	
16.11 ...	SF 42L2	3,0	14	50	3	1		...1067	
16.11 ...	SF 42L3	3,0	14	75	3	1		...1068	
16.11 ...	SF 13	4,0	10	45	3	2	...1165	...1069	
16.11 ...	SF 53	5,0	12	47	3	2	...1166	...1070	
16.11 ...	SF 51	6,0	14	49	3	2	...1167	...1071	

Ordering example :

10 pcs SF 42 -3 (Item number 16.11.1164)

10 pcs SF 42 -6 (Item number 16.11.1066)

SF

Rotary carbide bur
form "F", tree shape with
radius end

Shank : 6mm

SF

Frässtifte aus Hartmetall
Form "F", Rundbogenform

Schaft : 6mm

SF

Fraises rotatives en carbure
forme "F", ogive à bout
hémisphérique

Queue : 6mm

GRP
F12

FAM
134

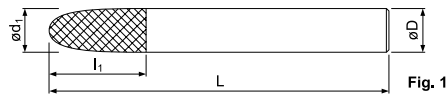


Fig. 1

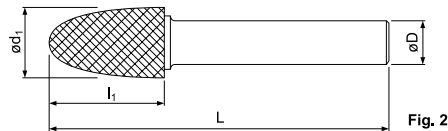


Fig. 2



Item Nr.	Designation	$\varnothing d_1$	l_1	L	$\varnothing D$	Fig.	Cut 3	Cut 6	Cut 8
16.12 ...	SF 1	6,0	18	50	6	1	...1132	...1047	
16.12 ...	SF 1L6	6,0	18	168	6	1		...1048	
16.12 ...	SF 2	8,0	16	61	6	2	...1133	...1049	
16.12 ...	SF 3	10,0	20	65	6	2	...1134	...1050	...1200
16.12 ...	SF 3L6	10,0	20	170	6	2		...1051	
16.12 ...	SF 5	12,0	25	70	6	2	...1135	...1052	...1201
16.12 ...	SF 5L	12,0	25	100	6	2		...1053	
16.12 ...	SF 5L6	12,0	25	175	6	2		...1054	
16.12 ...	SF 6	16,0	28	73	6	2	...1136	...1055	
16.12 ...	SF 7	20,0	35	80	6	2	...1137	...1056	

Ordering example :

10 pcs SF 2 -3 (Item number 16.12.1133)

10 pcs SF 2 -6 (Item number 16.12.1049)

SG

Miniature rotary carbide bur form "G", tree shape with pointed end

Shank : 3mm

SG

Kleinfrässtifte aus Hartmetall Form "G", Spitzbogenform

Schaft : 3mm

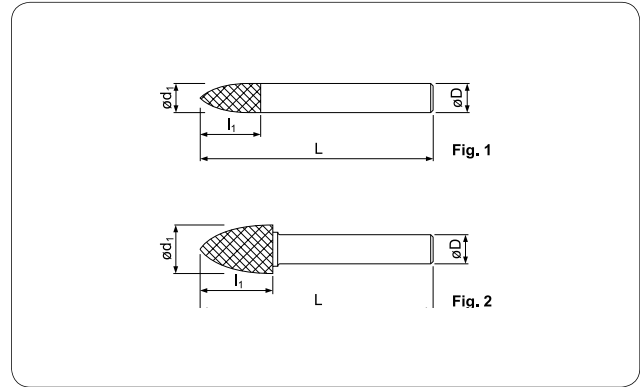
SG

Fraises rotatives en carbure miniature forme "G", ogive à bout pointu

Queue : 3mm

GRP
F11

FAM
135



Item Nr.	Designation	$\varnothing d_1$	l_1	L	$\varnothing D$	Fig.	Cut 3	Cut 6	Cut 8
16.11 ...	SG 44	3,0	14	40	3	1	...1168	...1072	
16.11 ...	SG 44L2	3,0	14	50	3	1		...1073	
16.11 ...	SG 44L3	3,0	14	75	3	1		...1074	
16.11 ...	SG 13	4,0	10	45	3	2	...1169	...1075	
16.11 ...	SG 53	5,0	12	47	3	2	...1170	...1076	
16.11 ...	SG 51	6,0	14	49	3	2	...1171	...1077	

Ordering example :

10 pcs SG 13 -3 (Item number 16.11.1169)

10 pcs SG 13 -6 (Item number 16.11.1075)

SG

Rotary carbide bur
form "G", tree shape with
pointed end

Shank : 6mm

SG

Frässtifte aus Hartmetall
Form "G", Spitzbogenform

Schaft : 6mm

SG

Fraises rotatives en carbure
forme "G", ogive à bout pointu

Queue : 6mm

GRP
F12

FAM
136

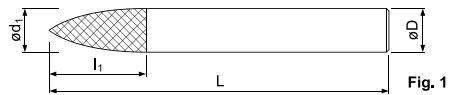


Fig. 1

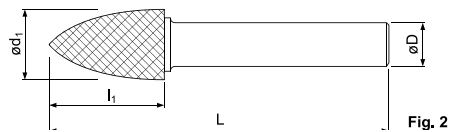


Fig. 2



Item Nr.	Designation	$\varnothing d_1$	l_1	L	$\varnothing D$	Fig.	Cut 3	Cut 6	Cut 8
16.12 ...	SG 1	6,0	18	50	6	1	...1138	...1057	
16.12 ...	SG 1L6	6,0	18	168	6	1		...1058	
16.12 ...	SG 2	8,0	16	61	6	2	...1139	...1059	
16.12 ...	SG 3	10,0	20	65	6	2	...1140	...1060	
16.12 ...	SG 3L6	10,0	20	170	6	2		...1061	
16.12 ...	SG 5	12,0	25	70	6	2	...1141	...1062	
16.12 ...	SG 5L6	12,0	25	175	6	2		...1063	
16.12 ...	SG 6	16,0	28	73	6	2	...1142	...1064	
16.12 ...	SG 7	20,0	40	85	6	2	...1143	...1065	

Ordering example :

10 pcs SG 3 -3 (Item number 16.12.1140)

10 pcs SG 3 -6 (Item number 16.12.1060)

SJ
Miniature rotary carbide bur
form "J", 60° cone shape

Shank : 3mm

SJ
Kleinfrässtifte aus Hartmetall
Form "J", 60° Kegelsenkform

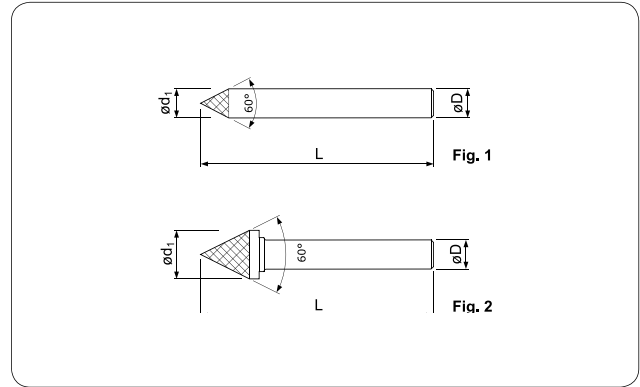
Schaft : 3mm

SJ
Fraises rotatives en carbure
miniature forme "J",
60° conique

Queue : 3mm

GRP
F11

FAM
145



Item Nr.	Designation	$\varnothing d_1$	L	$\varnothing D$			Fig.	Cut 3	Cut 6	Cut 8
16.11 ...	SJ 42	3,0	40	3			1	...1188	...1097	
16.11 ...	SJ 52	4,0	38	3			2	...1189	...1098	
16.11 ...	SJ 53	5,0	39	3			2	...1190	...1099	
16.11 ...	SJ 51	6,0	40	3			2	...1191	...1100	

Ordering example :

10 pcs SJ 53 -3 (Item number 16.11.1190)

10 pcs SJ 53 -6 (Item number 16.11.1099)

SJ
Rotary carbide bur
form "J", 60° cone shape

Shank : 6mm

SJ
Frässtifte aus Hartmetall
Form "J", 60° Kegelsenkform

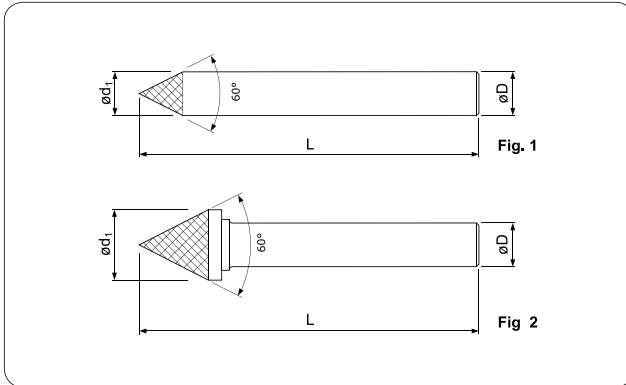
Schaft : 6mm

SJ
Fraises rotatives en carbure
forme "J", 60° conique

Queue : 6mm

GRP
F12

FAM
146



Item Nr.	Designation	ød ₁	L	øD			Fig.	Cut 3	Cut 6	Cut 8
16.12 ...	SJ 1	6,0	52	6			1	...1168	...1093	
16.12 ...	SJ 2	8,0	56	6			2	...1169	...1094	
16.12 ...	SJ 3	10,0	57	6			2	...1170	...1095	
16.12 ...	SJ 5	12,0	60	6			2	...1171	...1096	
16.12 ...	SJ 6	16,0	64	6			2	...1172	...1097	
16.12 ...	SJ 7	20,0	68	6			2	...1173	...1098	

Ordering example :

10 pcs SJ 5 -3 (Item number 16.12.1171)

10 pcs SJ 5 -6 (Item number 16.12.1096)

SK
Miniature rotary carbide bur
form "J", 90° cone shape

Shank : 3mm

SK
Kleinfrässtifte aus Hartmetall
Form "J", 90° Kegelsenkform

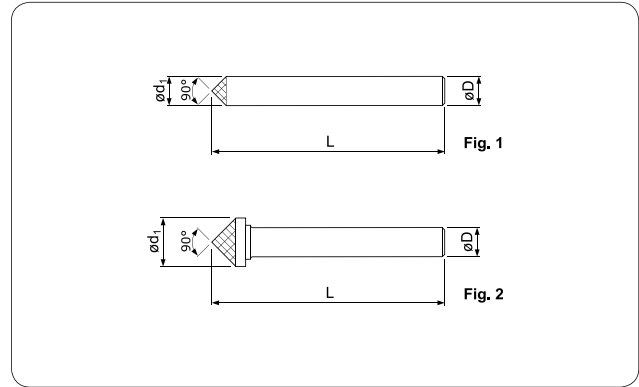
Schaft : 3mm

SK
Fraises rotatives en carbure
miniature forme "J",
90° conique

Queue : 3mm

**GRP
F11**

**FAM
147**



Item Nr.	Designation	ød ₁	L	øD			Fig.	Cut 3	Cut 6	Cut 8
16.11 ...	SK 42	3,0	40	3			1	...1192	...1101	
16.11 ...	SK 52	4,0	38	3			2	...1193	...1102	
16.11 ...	SK 53	5,0	39	3			2	...1194	...1103	
16.11 ...	SK 51	6,0	40	3			2	...1195	...1104	

Ordering example :

10 pcs SK 53 -3 (Item number 16.11.1194)
10 pcs SK 53 -6 (Item number 16.11.1103)

SK
Rotary carbide bur
form "J", 90° cone shape

Shank : 6mm

SK
Frässtifte aus Hartmetall
Form "J", 90° Kegelsenkform

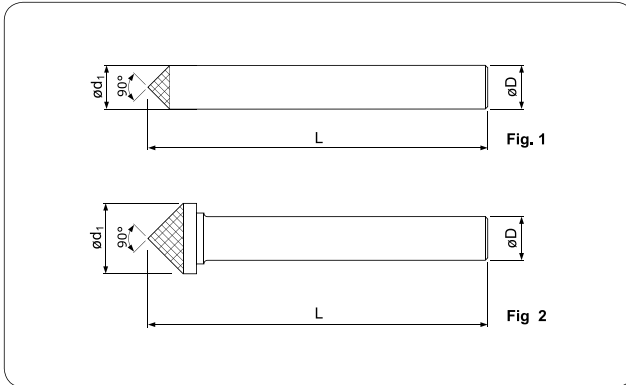
Schaft : 6mm

SK
Fraises rotatives en carbure
forme "J", 90° conique

Queue : 6mm

GRP
F12

FAM
148



Item Nr.	Designation	ød ₁	L	øD			Fig.	Cut 3	Cut 6	Cut 8
16.12 ...	SK 1	6,0	52	6			1	...1174	...1099	
16.12 ...	SK 2	8,0	53	6			2	...1175	...1100	
16.12 ...	SK 3	10,0	54	6			2	...1176	...1101	
16.12 ...	SK 5	12,0	56	6			2	...1177	...1102	
16.12 ...	SK 6	16,0	59	6			2	...1178	...1103	
16.12 ...	SK 7	20,0	62	6			2	...1179	...1104	

Ordering example :

10 pcs SK 5 -3 (Item number 16.12.1177)

10 pcs SK 5 -6 (Item number 16.12.1102)

SL

Miniature rotary carbide bur
form "L", 14° cone shape
with radius end

Shank : 3mm

SL

Kleinfrässtifte aus Hartmetall
Form "L", 14° Rundkegel

Schaft : 3mm

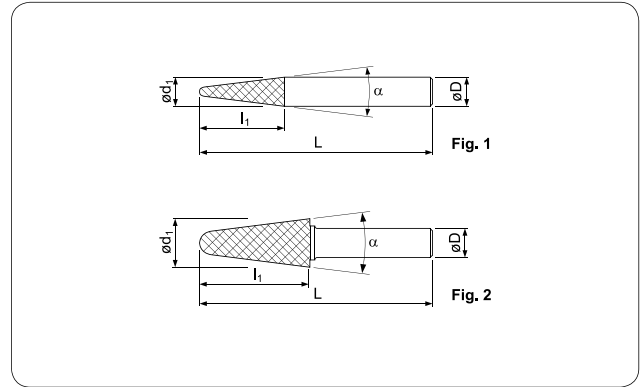
SL

Fraises rotatives en carbure
miniature forme "L",
14° conique à bout
hémisphérique

Queue : 3mm

GRP
F11

FAM
137



Item Nr.	Designation	$\varnothing d_1$	l_1	L	$\varnothing D$	α	Fig.	Cut 3	Cut 6	Cut 8
16.12 ...	SL 42	3,0	14	40	3	14	1	...1172	...1081	
16.12 ...	SL 13	4,0	14	49	3	14	2	...1173	...1082	
16.12 ...	SL 53	5,0	16	51	3	14	2	...1174	...1083	
16.12 ...	SL 51	6,0	20	55	3	14	2	...1175	...1084	

Ordering example :

10 pcs SL 13 -3 (Item number 16.11.1173)

10 pcs SL 13 -6 (Item number 16.11.1082)

SL

Rotary carbide bur
form "L", 14° cone shape
with radius end

Shank : 6mm

SL

Frässtifte aus Hartmetall
Form "L", 14° Rundkegel

Schaft : 6mm

SL

Fraises rotatives en carbure
forme "L", 14° conique à bout
hémisphérique

Queue : 6mm

GRP
F12

FAM
138

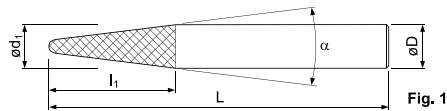


Fig. 1

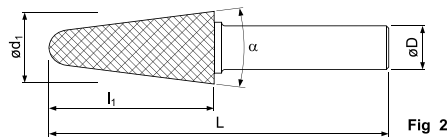


Fig 2



Item Nr.	Designation	$\varnothing d_1$	l_1	L	$\varnothing D$	α	Fig.	Cut 3	Cut 6	Cut 8
16.12 ...	SL 1	6,0	20	50	6	14	1	...1144	...1066	
16.12 ...	SL 1L6	6,0	20	175	6	14	2		...1067	
16.12 ...	SL 2	8,0	24	69	6	14	2	...1145	...1068	
16.12 ...	SL 3	10,0	28	73	6	14	2	...1146	...1069	
16.12 ...	SL 3L6	10,0	28	175	6	14	2		...1070	
16.12 ...	SL 4	12,0	30	75	6	14	2	...1147	...1071	
16.12 ...	SL 4L6	12,0	30	175	6	14	2		...1072	
16.12 ...	SL 5	16,0	38	83	6	14	2	...1148	...1073	
16.12 ...	SL 7	20,0	42	87	6	14	2	...1149	...1074	

Ordering example :

10 pcs SL 3 -3 (Item number 16.12.1146)

10 pcs SL 3 -6 (Item number 16.12.1069)

SM

Miniature rotary carbide bur form "M", 10° - 45° cone shape with pointed end

Shank : 3mm

SM

Kleinfrässtifte aus Hartmetall Form "M", 10° - 45° Spitzkegelform

Schaft : 3mm

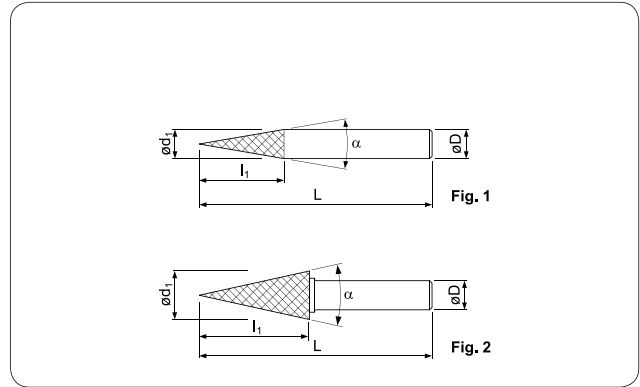
SM

Fraises rotatives en carbure miniature, forme "M" 10° - 45° conique à bout pointu

Queue : 3mm

GRP
F11

FAM
139



Item Nr.	Designation	$\varnothing d_1$	l_1	L	$\varnothing D$	α	Fig.	Cut 3	Cut 6	Cut 8
16.11 ...	SM 43	3,0	14	40	3	10	1	...1176	...1085	
16.11 ...	SM 13	4,0	10	45	3	20	2	...1177	...1086	
16.11 ...	SM 53	5,0	12	47	3	22	2	...1178	...1087	
16.11 ...	SM 51	6,0	14	49	3	22	2	...1179	...1088	

Ordering example :

10 pcs SM 13 -3 (Item number 16.11.1177)

10 pcs SM 13 -6 (Item number 16.11.1086)

SM

Rotary carbide bur
form "M", 16° - 45° cone shape
with pointed end

Shank : 6mm

SM

Frässtifte aus Hartmetall
Form "M",
16° - 45° Spitzkegelform

Schaft : 6mm

SM

Fraises rotatives en carbure
forme "M", 16° - 45° conique
à bout pointu

Queue : 6mm

GRP
F12

FAM
140

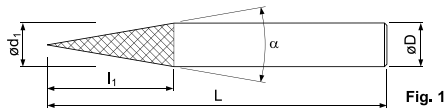


Fig. 1

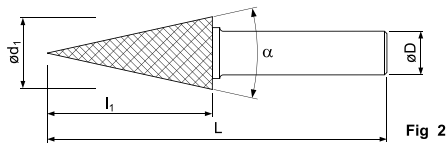


Fig 2



Item Nr.	Designation	$\varnothing d_1$	l_1	L	$\varnothing D$	α	Fig.	Cut 3	Cut 6	Cut 8
16.12 ...	SM 2	6,0	18	50	6	16	1	...1150	...1075	
16.12 ...	SM 31	8,0	15	60	6	26	2	...1151	...1076	
16.12 ...	SM 4	10,0	18	63	6	28	2	...1152	...1077	
16.12 ...	SM 5	12,0	20	65	6	30	2	...1153	...1078	
16.12 ...	SM 6	16,0	22	67	6	38	2	...1154	...1079	
16.12 ...	SM 7	20,0	24	69	6	45	2	...1155	...1080	

Ordering example :

10 pcs SM 4 -3 (Item number 16.12.1152)

10 pcs SM 4 -6 (Item number 16.12.1077)

SN

Miniature rotary carbide bur
form "N",
15° inverted cone shape

Shank : 3mm

SN

Kleinfrässtifte aus Hartmetall
Form "N", 15° Winkelform

Schaft : 3mm

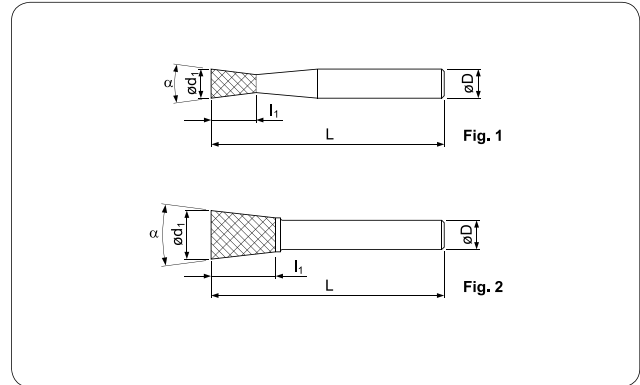
SN

Fraises rotatives en carbure
miniature forme "N",
15° conique inverse

Queue : 3mm

GRP
F11

FAM
141



Item Nr.	Designation	ød ₁	l ₁	L	øD	α	Fig.	Cut 3	Cut 6	Cut 8
16.11 ...	SN 42	3,0	3	40	3	15	1	...1180	...1089	
16.11 ...	SN 13	4,0	4	39	3	15	1	...1181	...1090	
16.11 ...	SN 53	5,0	5	40	3	15	2	...1182	...1091	
16.11 ...	SN 51	6,0	6	41	3	15	2	...1183	...1092	

Ordering example :

10 pcs SN 13 -3 (Item number 16.11.1181)

10 pcs SN 13 -6 (Item number 16.11.1090)

SN
Rotary carbide bur
form "N",
15° inverted cone shape

Shank : 6mm

SN
Frässtifte aus Hartmetall
Form "N", 15° Winkelform

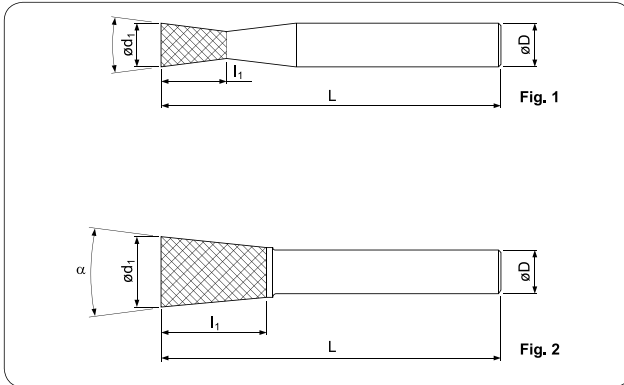
Schaft : 6mm

SN
Fraises rotatives en carbure
forme "N", 15° conique inverse

Queue : 6mm

GRP
F12

FAM
142



Item Nr.	Designation	$\varnothing d_1$	l_1	L	$\varnothing D$	α	Fig.	Cut 3	Cut 6	Cut 8
16.12 ...	SN 1	6,0	6	50	6	15	1	...1156	...1081	
16.12 ...	SN 18	8,0	8	53	6	15	2	...1157	...1082	
16.12 ...	SN 2	10,0	10	55	6	15	2	...1158	...1083	
16.12 ...	SN 4	12,0	12	57	6	15	2	...1159	...1084	
16.12 ...	SN 6	16,0	16	61	6	15	2	...1160	...1085	
16.12 ...	SN 7	20,0	20	65	6	15	2	...1161	...1086	

Ordering example :

10 pcs SN 4 -3 (Item number 16.12.1159)

10 pcs SN 4 -6 (Item number 16.12.1084)

SN ... S

Miniature rotary carbide bur
form "N",
15° inverted cone shape with
end cut

Shank : 3mm

SN ... S

Kleinfrässtifte aus Hartmetall
Form "N", 15° Winkelform mit
Stirnverzahnung

Schaft : 3mm

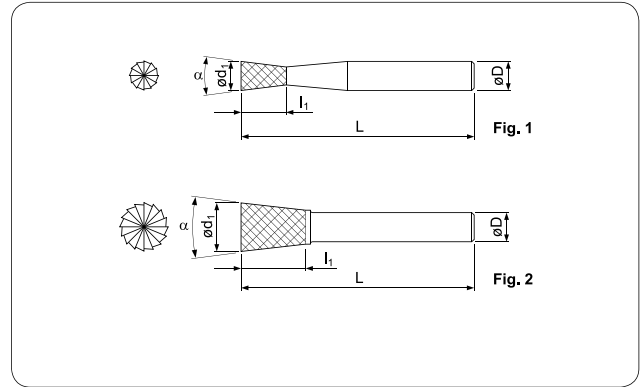
SN ... S

Fraises rotatives en carbure
miniature forme "N",
15° conique inverse denté en
bout

Queue : 3mm

GRP
F11

FAM
143



Item Nr.	Designation	$\varnothing d_1$	l_1	L	$\varnothing D$	α	Fig.	Cut 3	Cut 6	Cut 8
16.11 ...	SN 42S	3,0	3	40	3	15	1	...1184	...1093	
16.11 ...	SN 13S	4,0	4	39	3	15	2	...1185	...1094	
16.11 ...	SN 53S	5,0	5	40	3	15	2	...1186	...1095	
16.11 ...	SN 51S	6,0	6	41	3	15	2	...1187	...1096	

Ordering example :

10 pcs SN 13S -3 (Item number 16.11.1185)

10 pcs SN 13S -6 (Item number 16.11.1094)

SN ... S

Rotary carbide bur
form "N",
15° inverted cone shape
with end cut

Shank : 6mm

SN ... S

Frässtifte aus Hartmetall
Form "N", 15° Winkelform mit
Stirnverzahnung

Schaft : 6mm

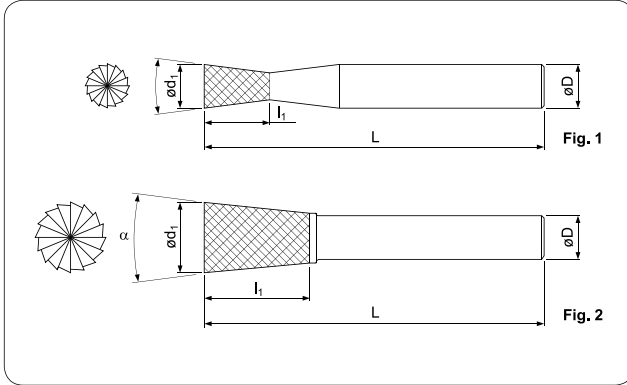
SN ... S

Fraises rotatives en carbure
forme "N", 15° conique inverse
denté en bout

Queue : 6mm

**GRP
F12**

**FAM
144**



Item Nr.	Designation	ød ₁	l ₁	L	øD	α	Fig.	Cut 3	Cut 6	Cut 8
16.12 ...	SN 15	6,0	6	50	6	15	1	...1162	...1087	
16.12 ...	SN 18S	8,0	8	53	6	15	2	...1163	...1088	
16.12 ...	SN 2S	10,0	10	55	6	15	2	...1164	...1089	
16.12 ...	SN 4S	12,0	12	57	6	15	2	...1165	...1090	
16.12 ...	SN 6S	16,0	16	61	6	15	2	...1166	...1091	
16.12 ...	SN 7S	20,0	20	65	6	15	2	...1167	...1092	

Ordering example :

10 pcs SN 4S -3 (Item number 16.12.1165)

10 pcs SN 4S -6 (Item number 16.12.1090)

SAR

Rotary carbide bur
form "B", cylinder without
end cut
With corner radius

Shank : 6mm

SAR

Frässtifte aus Hartmetall
Form "B", Zylinder ohne
Stirnverzahnung
Mit Kantenradius

Schaft: 6mm

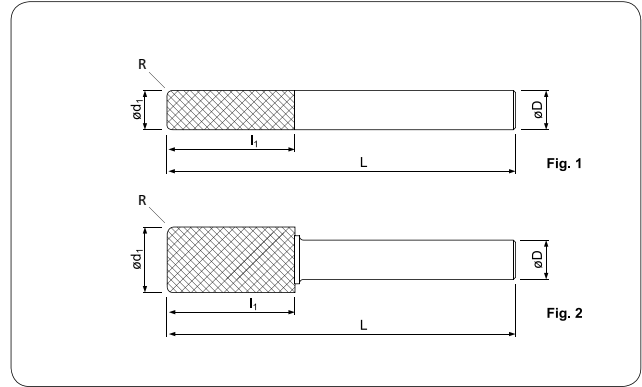
SAR

Fraises rotatives en carbure
forme "B", cylindrique avec
rayon

Queue : 6 mm

GRP
F12

FAM
381



Item Nr.	Designation	d ₁	I ₁	L	D	R	Fig.	Cut 3	Cut 6	Cut 8
16.12. ...	SAR 1	6	18	50	6	0,6	1		...1212	...1217
16.12. ...	SAR 2	8	18	63	6	0,8	2		...1213	...1218
16.12. ...	SAR 3	10	20	65	6	1,0	2		...1214	...1219
16.12. ...	SAR 5	10	20	65	6	1,0	2		...1215	...1220
16.12. ...	SAR 6	16	25	70	6	1,6	2		...1216	...1221

*) R= 0,1 x d₁

Ordering example :

10 pcs SAR 1 -6 (Item number 16.12.1212)

10 pcs SAR 1 -8 (Item number 16.12.1217)