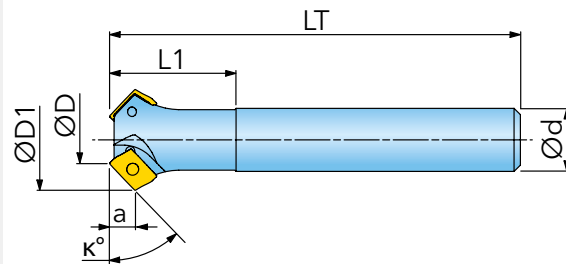


FORM MILLS / FRAISES DE FORME

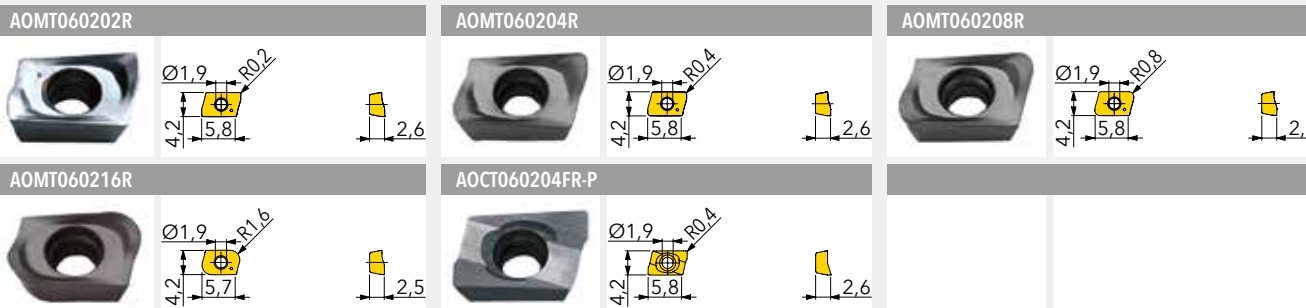
	D	a	Description	Code / Série	Page
		8	2,7 - 4,8 HIPOS Chamfer Mill 12_1D...T Fraise à chanfreiner 12_1D...T	12_1D...T	170
		20	2,9 - 11,6 HIPOS Chamfer Mill 12_1R...W Fraise à chanfreiner 12_1R...W	12_1R...W	171
		45	9 - 33,9 HIPOS Chamfer Mill 22_3R...F Ø45 Fraise à chanfreiner 22_3R...F Ø45	22_3R...F Ø45	172
		10,6	3,2 HIPOSQUAD Chamfer Mill 15N1D...T Fraise à chanfreiner 15N1D...T	15N1D...T	173
		6 - 16	3,5 - 5,1 HIPOSQUAD Chamfer Mill 15_1E...W Fraise à chanfreiner 15_1E...W	15_1E...W	174
		20	5 HIPOSQUAD Chamfer Mill 15N1E...X Fraise à chanfreiner 15N1E...X	15N1E...X	175
		45	6,4 - 24,4 ROUGHAIR Finishing Chamfer Mill 15_1H...F Fraise à chanfreiner de finition 15_1H...F	15_1H...F	176
		21,9	10,1 SPOT Chamfer Mill FAK...W Fraise à chanfreiner & graver FAK...W	FAK...W	177
		21,9	10,1 SPOT Chamfer Mill FAK...X Fraise à chanfreiner & graver FAK...X	FAK...X	178
		25	FASTBREAK End Mill 15R...W Fraise en bout 15R...W	15R...W	179

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

ADAPTION ACC. TO DIN 1835 A
 ATTACHEMENT DIN 1835 A



Designation Réf. de l'article	D	D1	d	LT	L1	κ	a	Z	kg
12P1D008025T1R00	8	17,7	10	65	20	30	2,7	2	0,04
12N1D008025T1R00	8	16,0	10	65	20	45	3,9	2	0,04
12M1D008025T1R00	8	13,7	10	65	20	60	4,8	2	0,04



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN05S	IN2035	IN2504	IN2505	IN2530			
AOMT060202R	0,06/0,12	positive geometry R0,2 / Géométrie positive R0,2									
AOMT060204R	0,06/0,12	positive geometry R0,4 / Géométrie positive R0,4									
AOMT060208R	0,06/0,12	positive geometry R0,8 / Géométrie positive R0,8									
AOMT060216R ¹⁾	0,06/0,12	positive geometry R1,6 / Géométrie positive R1,6									
AOCT060204FR-P	0,05/0,12	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									

¹⁾Cutter body has to be modified / Modifier le corps de fraise

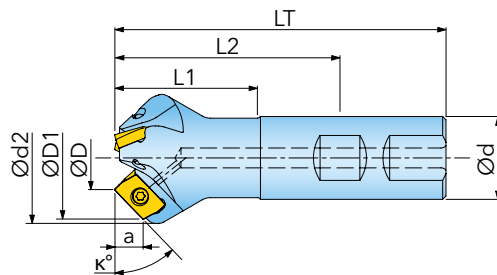
● = P ● = M ● = K ● = N ● = S ○ = H



SM18-041-00 (0,5Nm) TXPLUS06x90-B

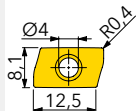
① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

ADAPTION ACC. TO DIN 1835 B (WELDON)
 ATTACHEMENT DIN 1835 B (WELDON)

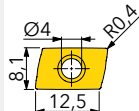


Designation Réf. de l'article	D	D1	d	d2	LT	L1	L2	κ	a	Z	IK	kg
12Q1R020044W5R00	20	42,1	25	43,2	100	44	68	15	2,9	3	✓	0,38
12P1R020044W5R00	20	40,4	25	40,7	100	44	68	30	5,9	3	✓	0,35
12N1R020044W5R00	20	36,9	25	39,5	100	44	68	45	8,4	3	✓	0,36
12M1R020044W5R00	20	31,9	25	32,2	100	44	68	60	10,3	3	✓	0,33
12L1R020044W5R00	20	26,2	25	26,4	100	44	68	75	11,6	3	✓	0,31

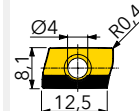
BOMT130404R



BOCT130404FR-P



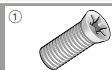
BOMT130404R-DT2



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN10K	IN2035	IN2036	IN2504	IN2505	IN2530	IN6537	IN90D
BOMT130404R	0,12/0,20	positive geometry R0,4 / Géométrie positive R 0,4									
BOCT130404FR-P	0,05/0,25	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									
BOMT130404R-DT2	0,05/0,25	with long PCD-tip R0,4 / avec insert PCD version longue R0,4									

● = P ● = M ● = K ● = N ● = S ○ = H

**SPARE PARTS
ACCESSOIRES**

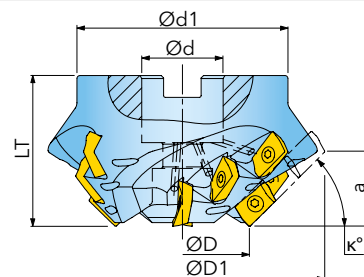


SM35-088-10 (3,0Nm) TX10x90-B

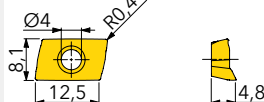
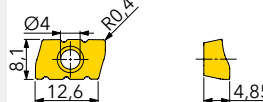
① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

HIPOS⁺ CHAMFER MILL 22_3R...F Ø45 **FRAISE A CHANFREINER 22_3R...F Ø45**

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	D1	d	d1	LT	κ	a	Z	Zeff	IK	kg
22Q3R045050F2R00	45	112,5	27	70	50	15	9	12	4	✓	1,70
22P3R045050F2R00	45	105,4	27	70	50	30	17,3	12	4	✓	1,40
22N3R045050F2R00	45	94,4	27	70	50	45	24,6	12	4	✓	1,10
22M3R045050F2R00	45	80,0	27	70	50	60	30,2	12	4	✓	0,81
22L3R045050F1R00	45	63,2	22	45	50	75	33,9	12	4	✓	0,43

BOMT130404R			BOCT130404FR-P			ZOMT130404R						
												
Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN10K	IN2035	IN2036	IN2504	IN2505	IN2530	IN6537		
BOMT130404R	0,12/0,20	positive geometry R0,4 / Géométrie positive R 0,4										
BOCT130404FR-P	0,05/0,25	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4										
ZOMT130404R ¹⁾	0,12/0,20	chip splitter geometry R0,4 / Géométrie avec brise-copeaux R0,4										

¹⁾ Best results are achieved on tools with an even number of teeth. Please mount inserts alternating. /
Les meilleurs résultats sont obtenus avec une fraise ayant un nombre de dents pair. Merci de monter les arêtes de manière alternée.

● = P ● = M ● = K ● = N ● = S ○ = H

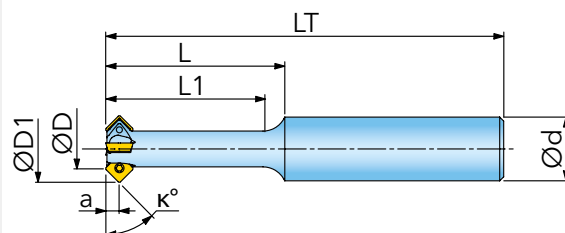
SPARE PARTS
ACCESSOIRES



SM35-088-10 (3,0Nm) TX10x90-B

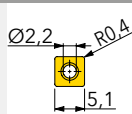
① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

ADAPTION ACC. TO DIN 1835 A
ATTACHEMENT DIN 1835 A

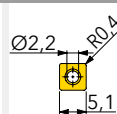


Designation Réf. de l'article	D	D1	d	LT	L	L1	κ	a	Z	kg
15N1D017045T3R00	10,6	17	16	100	45	40	45	3,2	4	0,11

SDMT050204N



SDCT050204FN-P



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN10K	IN2505						
SDMT050204N	0,06/0,12	positive geometry R0,4 / Géométrie positive R0,4									
SDCT050204FN-P	0,05/0,15	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



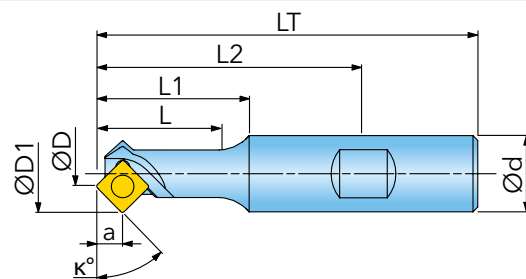
TXPLUS06x90-B

SM20-043-00 (0,7Nm)

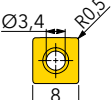
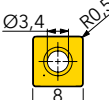
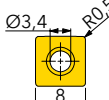
① = Torx-Bit / Embout torx ② = Insert screw / Vis de serrage plaque

HIPOSQUAD CHAMFER MILL 15_1E...W FRAISE A CHANFREINER 15_1E...W

ADAPTION ACC. TO DIN 1835 B (WELDON)
ATTACHEMENT DIN 1835 B (WELDON)

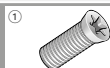


Designation Réf. de l'article	D	D1	d	LT	L	L1	L2	κ	a	Z	kg
15P1E006032W3R00	6	18,6	16	80	32	25	56	30	3,5	1	0,09
15N1E006032W3R00	6	16,3	16	80	32	25	56	45	5,1	1	0,09
15M1E006032W3R00	6	13,1	16	80	32	25	56	60	6,2	1	0,09
15N1E016035W4R00	16	26,4	20	85	35	35	60	45	5,1	2	0,19

SDMT080305N			SDMW080305TN			SDCT080305FN-P					
											
Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN05S	IN2505	IN4030					
SDMT080305N	0,13/0,17	positive geometry R0,5 / Géométrie positive R0,5									
SDMW080305TN	0,13/0,20	neutral geometry, K-land R0,5 / Géo. neutre avec chan. d'arête R0,5									
SDCT080305FN-P	0,05/0,20	non-ferrous geometry, polished R0,5 / Géo. pour mat. non fer., polie R0,5									

● = P ● = M ● = K ● = N ● = S ○ = H

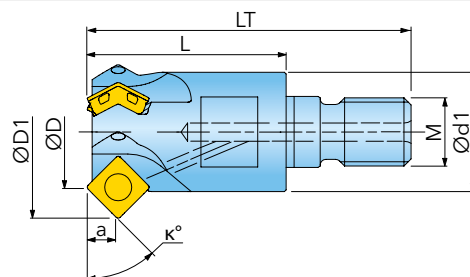
SPARE PARTS
ACCESSOIRES



SM30-065-00 (2,0Nm) TX09x90-B

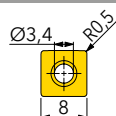
① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

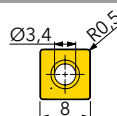


Designation Réf. de l'article	D	D1	d1	LT	L	K	a	M	Z	IK	kg
15N1E020035X7R00	20	30,4	21	57	35	45	5	M12	3	✓	0,09

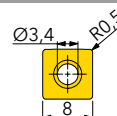
SDMT080305N



SDMW080305TN



SDCT080305FN-P



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN05S	IN2505	IN4030					
SDMT080305N	0,13/0,17	positive geometry R0,5 / Géométrie positive R0,5									
SDMW080305TN	0,13/0,20	neutral geometry, K-land R0,5 / Géo. neutre avec chan. d'arête R0,5									
SDCT080305FN-P	0,05/0,20	non-ferrous geometry, polished R0,5 / Géo. pour mat. non fer., polie R0,5									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



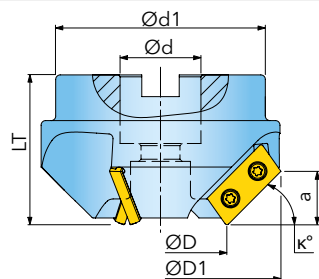
SM30-065-00 (2,0Nm) TX09x90-B

① = Insert screw / Vis de serrage plaquelette ② = Torx-Bit / Embout torx

ROUGHAIR FINISHING CHAMFER MILL 15_1H...F

FRAISE A CHANFREINER DE FINITION 15_1H...F

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	D1	d	d1	LT	κ	a	Z		
15Q1H045050F2R00	45	93,4	27	70	50	15	6,4	3	✓	1,63
15P1H045050F2R00	45	88,5	27	70	50	30	12,4	3	✓	1,38
15N1H045050F2R00	45	80,7	27	70	50	45	17,8	3	✓	1,05
15M1H045050F2R00	45	70,3	27	70	50	60	21,8	3	✓	0,82
15L1H045050F1R00	45	58,1	22	45	50	75	24,4	3	✓	0,43

BEHW250308R		BEHW250308R-P			
Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN15K	IN2540
BEHW250308R	0,08/0,20	neutral geometry R0,8 / Géométrie neutre R0,8			
BEHW250308R-P	0,05/0,20	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8			

● = P ● = M ● = K ● = N ● = S ○ = H

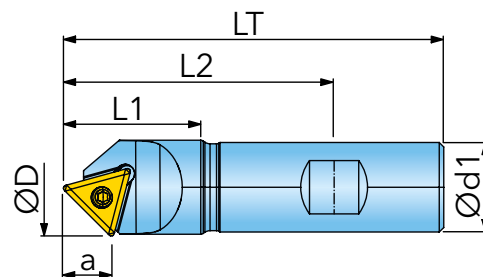
SPARE PARTS
ACCESSOIRES



SM35-089-00 (3,0Nm) TX15x90-B

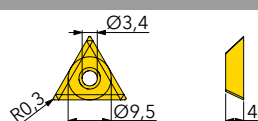
① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

ADAPTION ACC. TO DIN 1835 B (WELDON)
ATTACHEMENT DIN 1835 B (WELDON)

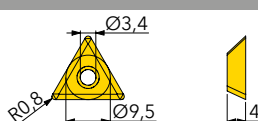


Designation Réf. de l'article	D	d1	LT	L1	L2	κ	a	Z	kg
FAK0219090W4R01	21,9	20	85	34	60	45	10,1	1	0,15

TFLT15T303N



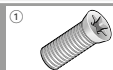
TFLT15T308N



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2530							
TFLT15T303N	0,03/0,10	positive chip breaker geometry R0,3 / Géométrie coupe positive R0,3									
TFLT15T308N	0,03/0,10	positive wiper geometry R0,8 / Géométrie coupe positive R0,8									

● = P ● = M ● = K ● = N ● = S ○ = H

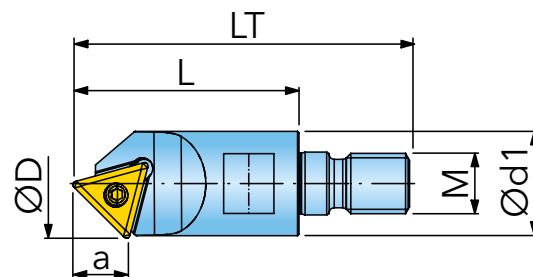
SPARE PARTS
ACCESSOIRES



SM30-065-00 (2,0Nm) TX09x90-B

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation
Réf. de l'article

D d1 LT L κ a M Z

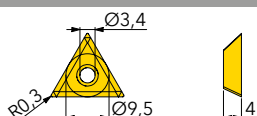


FAK0219090X7R01

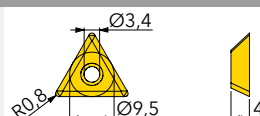
21,9 21 67 45 45 10,1 M12 1

0,10

TFLT15T303N



TFLT15T308N



Designation
Réf. de l'article

fz(min/max)

Design
Conception

Grade
Nuance

IN2530

TFLT15T303N

0,03/0,10

positive chip breaker geometry R0,3 / Géométrie coupe positive R0,3



TFLT15T308N

0,03/0,10

positive wiper geometry R0,8 / Géométrie coupe positive R0,8



● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

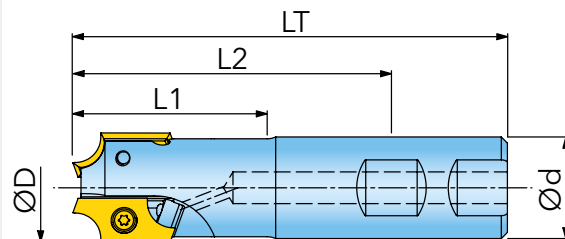


SM30-065-00 (2,0Nm)

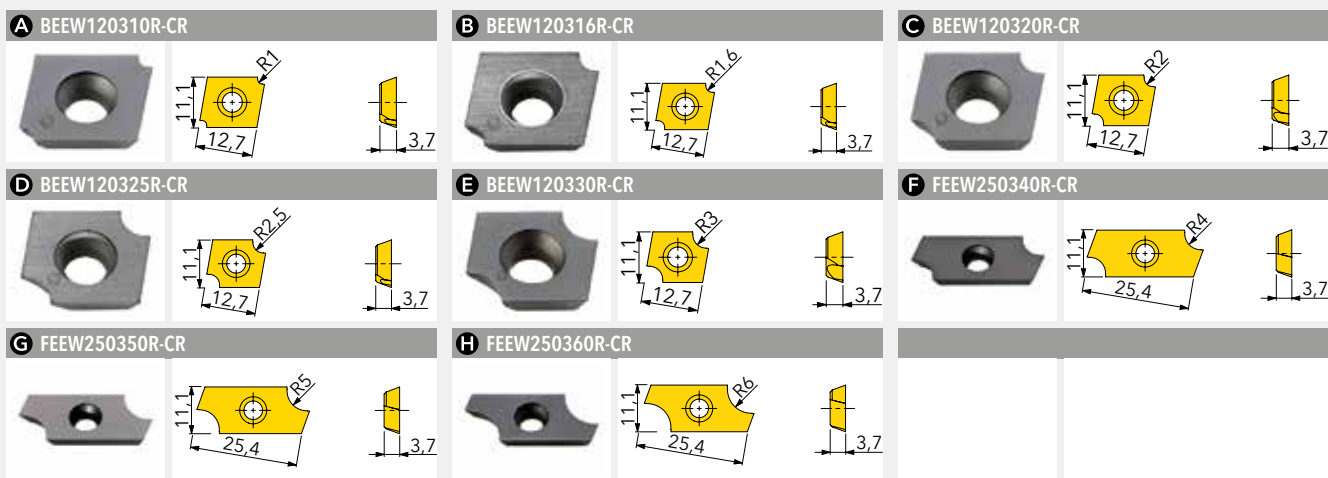
TX09x90-B

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

ADAPTION ACC. TO DIN 1835 B (WELDON)
ATTACHEMENT DIN 1835 B (WELDON)



Designation Réf. de l'article	D	d	LT	L1	L2	Z	Insert	IK	kg	Related Insert Plaquette préconisée
15R1V025040W5R00	25	25	100	40	68	2	BEEW	✓	0,28	A B C D E
15R4H025040W5R00	25	25	100	40	68	2	FEEW	✓	0,34	F G H



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2530									
BEEW120310R-CR	0,08/0,20	neutral geometry R1,0 / Géométrie neutre R1,0											
BEEW120316R-CR	0,08/0,20	neutral geometry R1,6 / Géométrie neutre R1,6											
BEEW120320R-CR	0,08/0,20	neutral geometry R2,0 / Géométrie neutre R2,0											
BEEW120325R-CR	0,08/0,20	neutral geometry R2,5 / Géométrie neutre R2,5											
BEEW120330R-CR	0,08/0,20	neutral geometry R3,0 / Géométrie neutre R3,0											
FEEW250340R-CR	0,08/0,20	neutral geometry R4,0 / Géométrie neutre R4,0											
FEEW250350R-CR	0,08/0,20	neutral geometry R5,0 / Géométrie neutre R5,0											
FEEW250360R-CR	0,08/0,20	neutral geometry R6,0 / Géométrie neutre R6,0											

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



Insert Type / Plaquette

BEEW	SM35-070-00 (3,0Nm)	TX15x90-B
FEEW	SM40-093-20 (4,5Nm)	TX15x90-B

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

COPY & PLUNGING MILLS / FRAISES À COPIER & TREFLER

	D	a	Description	Code / Série	Page
	12 - 25	3	FORMMASTER Copy End Mill 15B1D...X Fraise à copier 15B1D...X	15B1D...X	184
	16 - 30	4	FORMMASTER Copy End Mill 15B1E...X Fraise à copier 15B1E...X	15B1E...X	185
	20 - 42	5	FORMMASTER Copy End Mill 15B1G...X Fraise à copier 15B1G...X	15B1G...X	186
	24 - 42	6	FORMMASTER Copy End Mill 15B1H...X Fraise à copier 15B1H...X	15B1H...X	187
	32	8	FORMMASTER Copy End Mill 15B1K...X Fraise à copier 15B1K...X	15B1K...X	188
	52 - 66	5	FORMMASTER Copy Face Mill 5W2G Fraise à copier 5W2G	5W2G	189
	52 - 80	6	FORMMASTER Copy Face Mill 5W2H Fraise à copier 5W2H	5W2H	190
	52 - 160	8	FORMMASTER Copy Face Mill 5W2K Fraise à copier 5W2K	5W2K	191
	16	4	FORMMASTER* Copy End Mill 15B2E...X Fraise à copier 15B2E...X	15B2E...X	192
	20 - 42	5	FORMMASTER* Copy End Mill 15B2G...X Fraise à copier 15B2G...X	15B2G...X	193
	24 - 42	6	FORMMASTER* Copy End Mill 15B2H...X Fraise à copier 15B2H...X	15B2H...X	194
	32 - 42	8	FORMMASTER* Copy End Mill 15B2K...X Fraise à copier 15B2K...X	15B2K...X	195
	52	5	FORMMASTER* Copy Face Mill 5W7G Fraise à copier 5W7G	5W7G	196
	52 - 80	6	FORMMASTER* Copy Face Mill 5W7H Fraise à copier 5W7H	5W7H	197

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

COPY & PLUNGING MILLS / FRAISES À COPIER & TREFLER

	D	a	Description	Code / Série	Page
	52 - 160	8	FORMMASTER⁺ Copy Face Mill 5W7K Fraise à copier 5W7K	5W7K	198
	66 - 160	10	FORMMASTER⁺ Copy Face Mill 5W7M Fraise à copier 5W7M	5W7M	199
	20 - 35	2,5	BLADEMASTER⁺ Copy End Mill 15B5G...X Fraise à copier 15B5G...X	15B5G...X	200
	32 - 42	3	BLADEMASTER⁺ Copy End Mill 15B5H...X Fraise à copier 15B5H...X	15B5H...X	201
	40 - 63	2,5	BLADEMASTER⁺ Copy End Mill 5B5G Fraise à copier 5B5G	5B5G	202
	40 - 80	3	BLADEMASTER⁺ Copy End Mill 5B5H Fraise à copier 5B5H	5B5H	203
	24 - 42	6	FORMMASTER^{PRO} Copy End Mill 15E1H...X Fraise à copier 15E1H...X	15E1H...X	204
	32 - 42	8	FORMMASTER^{PRO} Copy End Mill 15E1K...X Fraise à copier 15E1K...X	15E1K...X	205
	50 - 80	6	FORMMASTER^{PRO} Copy End Mill 5E6H Fraise à copier 5E6H	5E6H	206
	50 - 160	8	FORMMASTER^{PRO} Copy Face Mill 5E6K Fraise à copier 5E6K	5E6K	207
	25 - 42	5	FORMMASTER[®] Copy End Mill 1DE6G...X Fraise à copier 1DE6G...X	1DE6G...X	208
	32 - 40	6	FORMMASTER[®] Copy End Mill 1DE6H...X Fraise à copier 1DE6H...X	1DE6H...X	209
	40 - 52	5	FORMMASTER[®] Copy End Mill DE6G Fraise à copier DE6G	DE6G	210
	40 - 100	6 - 5	FORMMASTER[®] Copy End Mill DE6H Fraise à copier DE6H	DE6H	211

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

COPY & PLUNGING MILLS / FRAISES À COPIER & TREFLER

	D	a	Description	Code / Série	Page
	50 - 160	8	FORMMASTER® Copy End Mill DE6K Fraise à copier DE6K	DE6K	212
	16 - 42	1	FORMMASTER® Copy End Mill 15V1D...X Fraise à copier 15V1D...X	15V1D...X	213
	25 - 42	2	FORMMASTER® Copy End Mill 15V1G...X Fraise à copier 15V1G...X	15V1G...X	214
	52 - 80	2	FORMMASTER® Copy Face Mill 5V6G Fraise à copier 5V6G	5V6G	215
	16 - 32	11,8 - 21,4	PRODUO Copy End Mill 1TW...X Fraise à copier 1TW...X	1TW...X	216
	16 - 42	1,2	DIPOSPRO® Copy End Mill for finishing 12L8J...X Fraise à copier pour finition 12L8J...X	12L8J...X	217
	10,95 - 22,95	1,2	DIPOSPRO® Copy End Mill for finishing 12L8D...X Fraise à copier pour finition 12L8D...X	12L8D...X	218
	12,75 - 21,75	1,2	DIPOSPRO® Copy End Mill for finishing 12M8D...X Fraise à copier pour finition 12M8D...X	12M8D...X	219
	7 - 11	1,2	DIPOSPRO® Copy End Mill for finishing 12N8D...X Fraise à copier pour finition 12N8D...X	12N8D...X	220
	17,5 - 29,8	1,5	DIPOSPRO® Copy End Mill for finishing 12L8G...X Fraise à copier pour finition 12L8G...X	12L8G...X	221
	17,5 - 29,8	1,5	DIPOSPRO® Copy End Mill for finishing 12M8G...X Fraise à copier pour finition 12M8G...X	12M8G...X	222
	15	1,5	DIPOSPRO® Copy End Mill for finishing 12N8G...X Fraise à copier pour finition 12N8G...X	12N8G...X	223
	8 - 20	4 - 10	FINEMOLD® Copy Mill cylindrical 12A9... Fraise à copier cylindrique 12A9...	12A9...	224
	8 - 16	4 - 8	FINEMOLD® Copy Mill carbide shank 12A... Fraise à copier queue carbure 12A5...	12A5...	226

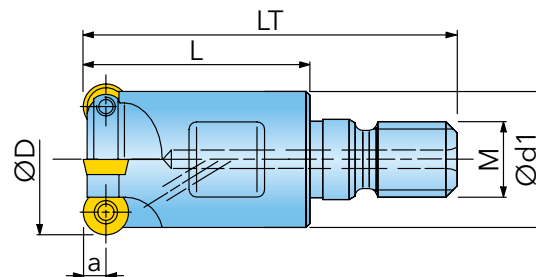
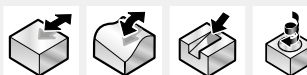
Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

COPY & PLUNGING MILLS / FRAISES À COPIER & TREFLER

[illegible]

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

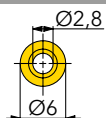
SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	d1	LT	L	a	M	Z		IK	kg
15B1D012028X4R00	12	11,8	42,5	28	3	M6	2	10	✓	0,02
15B1D012028X5R00	12	13	45,8	28	3	M8	2	10	✓	0,02
15B1D016023X5R00	16	13	40,8	23	3	M8	3	8	✓	0,02
15B1D020030X6R00	20	18	49,8	30	3	M10	4	8	✓	0,06
15B1D025035X7R00	25	21	57	35	3	M12	5	5	✓	0,10

Neutral design / Version neutre

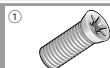
RHHW0602M0TN



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2004	IN2005	IN2006					
RHHW0602M0TN	0,20/0,30	neutral geometry, K-land / Géo. neutre avec chan. d'arête									

● = P ● = M ● = K ● = N ● = S ○ = H

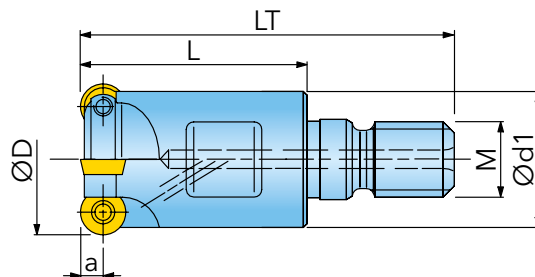
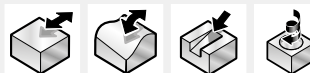
SPARE PARTS
ACCESSOIRES



SM25-049-00 (1,1Nm) TX08x90-B

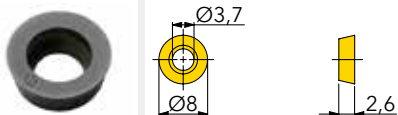
① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

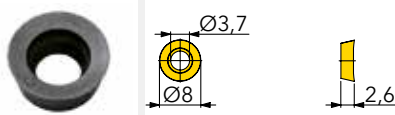


Designation Réf. de l'article	D	d1	LT	L	a	M	Z		IK	kg
15B1E016023X5R00	16	13	40,8	23	4	M8	2	2	✓	0,02
15B1E030043X8R00	30	29	67	43	4	M16	5	7	✓	0,19
Neutral design / Version neutre										

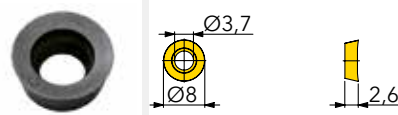
RHHW0802M0TN



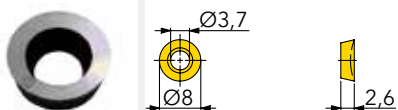
RHHT0802M0TN



RHHT0802M0TN-P



RHHT0802M0FN-P



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN05S	IN2004	IN2005	IN2006	IN2035			
RHHW0802M0TN	0,20/0,40	neutral geometry, K-land / Géo. neutre avec chan. d'arête									
RHHT0802M0TN	0,10/0,20	positive geometry, K-land / Géo. positive avec chan. d'arête									
RHHT0802M0TN-P	0,10/0,20	titanium geometry, polished / Géométrie Titane, polie									
RHHT0802M0FN-P	0,10/0,30	non-ferrous geometry, polished / Géo. pour mat. non fer., polie									

● = P ● = M ● = K ● = N ● = S ○ = H

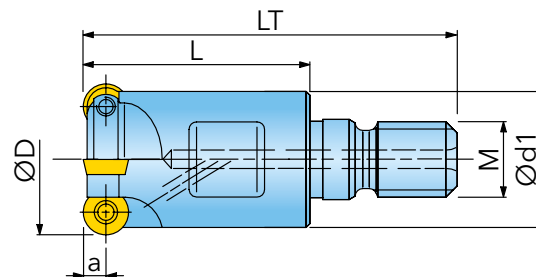
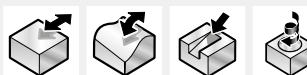
SPARE PARTS
ACCESSOIRES



SM30-053-00 (2,0Nm) TX09x90-B

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

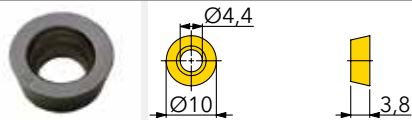
SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



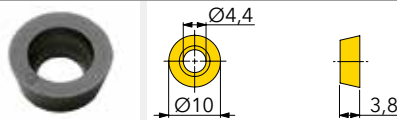
Designation Réf. de l'article	D	d1	LT	L	a	M	Z		IK	kg
15B1G020030X6R00 ¹⁾	20	18	49,8	30	5	M10	2	3,5	✓	0,05
15B1G025035X7R00	25	21	57	35	5	M12	2	2	✓	0,09
15B1G025035X7R01 ²⁾	25	21	57	35	5	M12	3	2	✓	0,09
15B1G030043X8R00 ¹⁾	30	29	67	43	5	M16	4	10	✓	0,19
15B1G035043X8R00	35	29	67	43	5	M16	4	7,5	✓	0,21
15B1G042043X8R00 ¹⁾	42	29	67	43	5	M16	5	5,5	✓	0,23
Neutral design / Version neutre										

¹⁾Insert screw SM40-070-00 / Vis de serrage SM40-070-00; ²⁾Only for finishing / Uniquement pour la finition

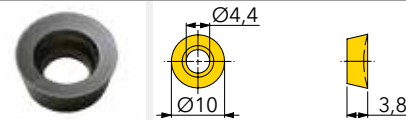
RHKW1003M0TN



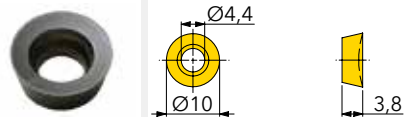
RHHW1003M0TN



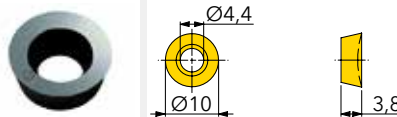
RHHT1003M0TN



RHHT1003M0TN-P



RHHT1003M0FN-P



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN05S	IN2004	IN2005	IN2006	IN2035	IN2505	IN4015	IN7035
RHKW1003M0TN	0,25/0,60	neutral roughing geometry / Géo. neutre pour ébauche									
RHHW1003M0TN	0,25/0,50	neutral geometry, K-land / Géo. neutre avec chan. d'arête									
RHHT1003M0TN	0,15/0,40	positive geometry, K-land / Géo. positive avec chan. d'arête									
RHHT1003M0TN-P	0,10/0,20	titanium geometry, polished / Géométrie Titane, polie									
RHHT1003M0FN-P	0,15/0,30	non-ferrous geometry, polished / Géo. pour mat. non fer., polie									

● = P ● = M ● = K ● = N ● = S ○ = H

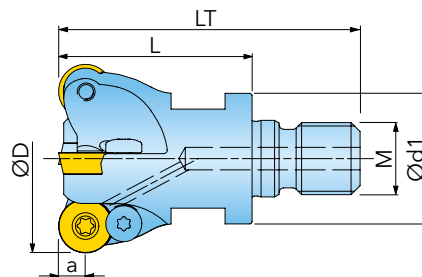
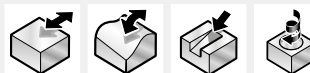
SPARE PARTS
ACCESSOIRES



SM40-080-10 (4,5Nm) TX15x90-B

① = Insert screw / Vis de serrage plaquelette ② = Torx-Bit / Embout torx

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



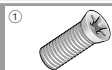
Designation Réf. de l'article	D	d1	LT	L	a	M	Z		IK	kg
15B1H024035X7R00	24	21	57	35	6	M12	2	3,5	✓	0,08
15B1H032043X8R00	32	29	67	43	6	M16	3	2	✓	0,18
15B1H035043X8R00	35	29	67	43	6	M16	3	2	✓	0,19
15B1H042043X8R00	42	29	67	43	6	M16	4	2	✓	0,25
Neutral design / Version neutre										

RHKW1204M0TN 			RHHW1204M0TN 			RHHT1204M0TN 		
RHHT1204M0TN-P 			RHHT1204M0FN-P 					

Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN05S	IN2004	IN2005	IN2006	IN2035	IN2505	IN4015	IN7035
RHKW1204M0TN	0,25/0,80	neutral roughing geometry / Géo. neutre avec chan. d'arête									
RHHW1204M0TN	0,25/0,60	neutral geometry, K-land / Géo. neutre pour ébauche									
RHHT1204M0TN	0,25/0,50	positive geometry, K-land / Géo. positive avec chan. d'arête									
RHHT1204M0TN-P	0,10/0,25	titanium geometry, polished / Géométrie Titane, polie									
RHHT1204M0FN-P	0,15/0,30	non-ferrous geometry, polished / Géo. pour mat. non fer., polie									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



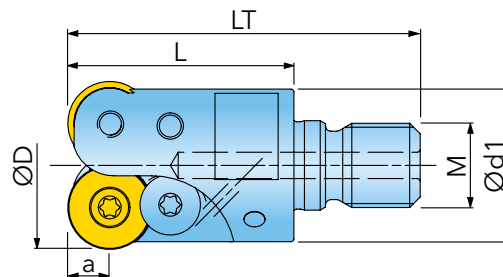
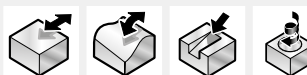
SM40-080-10 (4,5Nm)

TX15x90-B

SF035-01 (2,0Nm)

① = Insert screw / Vis de serrage plaqueette ② = Torx-Bit / Embout torx ③ = Clamping screw / Vis de serrage

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation
Réf. de l'article

D d1 LT L a M Z



15B1K032043X8R00

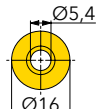
32 29 67 43 8 M16 2 2



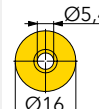
0,16

Neutral design / Version neutre

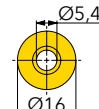
RHKW1605M0TN



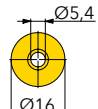
RHHW1605M0TN



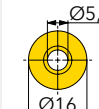
RHHT1605M0TN



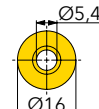
RHKT1605M0TN-PH2



RHHT1605M0TN-P



RHHT1605M0FN-P



Designation
Réf. de l'article

fz(min/max)

Design
Conception

Grade
Nuance

IN05S

IN2004

IN2005

IN2035

IN2505

IN4015

IN4030

IN7035

RHKW1605M0TN

0,30/1,00

neutral roughing geometry / Géo. neutre pour ébauche



RHHW1605M0TN

0,30/0,80

neutral geometry, K-land / Géo. neutre avec chan. d'arête



RHHT1605M0TN

0,25/0,50

positive geometry, K-land / Géo. positive avec chan. d'arête



RHKT1605M0TN-PH2

0,50/1,50

positive roughing geometry, neg. K-land / Géo. positive ébauche, chan. d'arête nég.



RHHT1605M0TN-P

0,10/0,25

titanium geometry, polished / Géométrie Titane, polie



RHHT1605M0FN-P

0,15/0,30

non-ferrous geometry, polished / Géo. pour mat. non fer., polie



● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



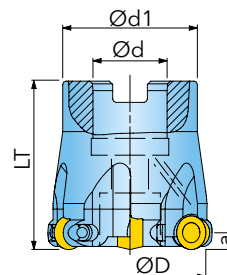
SM50-100-10 (6,0Nm)

TX20x90-B

CL-5000

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx ③ = Clamping disk / Bride de fixation

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	d	d1	LT	a	Z			
5W2G052R00	52	22	40	50	5	6	4	✓	0,36
5W2G066R00	66	27	48	50	5	7	3	✓	0,60
Neutral design / Version neutre									

RHKW1003M0TN 			RHHW1003M0TN 			RHHT1003M0TN 		
RHHT1003M0TN-P 			RHHT1003M0FN-P 					

Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN05S	IN2004	IN2005	IN2006	IN2035	IN2505	IN4015	IN7035
RHKW1003M0TN	0,25/0,60	neutral roughing geometry / Géo. neutre pour ébauche									
RHHW1003M0TN	0,25/0,50	neutral geometry, K-land / Géo. neutre avec chan. d'arête									
RHHT1003M0TN	0,15/0,40	positive geometry, K-land / Géo. positive avec chan. d'arête									
RHHT1003M0TN-P	0,10/0,20	titanium geometry, polished / Géométrie Titane, polie									
RHHT1003M0FN-P	0,15/0,30	non-ferrous geometry, polished / Géo. pour mat. non fer., polie									

● = P ● = M ● = K ● = N ● = S ○ = H

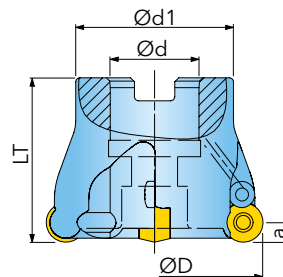
SPARE PARTS
ACCESSOIRES



SM40-080-10 (4,5Nm) TX15x90-B

① = Insert screw / Vis de serrage plaqueette ② = Torx-Bit / Embout torx

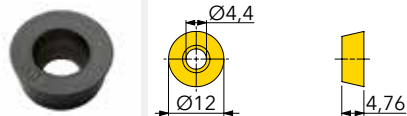
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



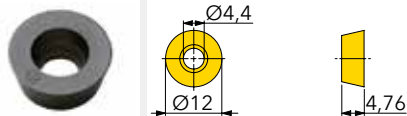
Designation Réf. de l'article	D	d	d1	LT	a	Z		IK	kg
5W2H052R00	52	22	40	50	6	5	4	✓	0,32
5W2H066R00	66	27	48	50	6	6	3	✓	0,56
5W2H080R00	80	27	60	50	6	7	2	✓	0,98

Neutral design / Version neutre

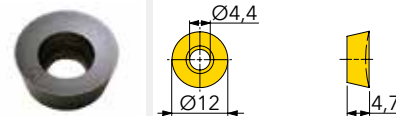
RHKW1204M0TN



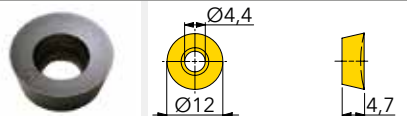
RHHW1204M0TN



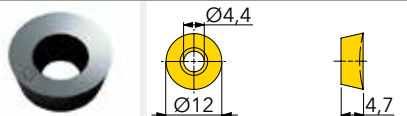
RHHT1204M0TN



RHHT1204M0TN-P



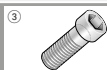
RHHT1204M0FN-P



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN05S	IN2004	IN2005	IN2006	IN2035	IN2505	IN4015	IN7035
RHKW1204M0TN	0,25/0,80	neutral roughing geometry / Géo. neutre avec chan. d'arête									
RHHW1204M0TN	0,25/0,60	neutral geometry, K-land / Géo. neutre pour ébauche									
RHHT1204M0TN	0,25/0,50	positive geometry, K-land / Géo. positive avec chan. d'arête									
RHHT1204M0TN-P	0,10/0,25	titanium geometry, polished / Géométrie Titane, polie									
RHHT1204M0FN-P	0,15/0,30	non-ferrous geometry, polished / Géo. pour mat. non fer., polie									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



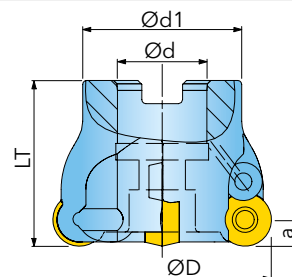
SM40-080-10 (4,5Nm)

TX15x90-B

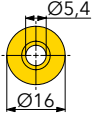
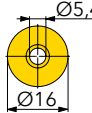
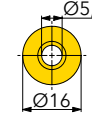
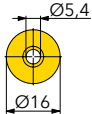
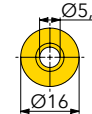
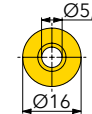
SF035-01 (2,0Nm)

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx ③ = Clamping screw / Vis de serrage

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	d	d1	LT	a	Z			
5W2K052R00	52	22	40	50	8	4	2,5	✓	0,30
5W2K066R00	66	27	48	50	8	5	3,5	✓	0,50
5W2K080R00	80	27	60	50	8	6	2,5	✓	0,86
5W2K100R00	100	32	70	55	8	7	2	✓	1,38
5W2K125R00	125	40	90	55	8	8	1,5		2,44
5W2K160R00	160	40	120	55	8	9	1		4,84
Neutral design / Version neutre									

RHKW1605M0TN			RHHW1605M0TN			RHHT1605M0TN					
											
RHKT1605M0TN-PH2			RHHT1605M0TN-P			RHHT1605M0FN-P					
											
Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN05S	IN2004	IN2005	IN2035	IN2505	IN4015	IN4030	IN7035
RHKW1605M0TN	0,30/1,00	neutral roughing geometry / Géo. neutre pour ébauche									
RHHW1605M0TN	0,30/0,80	neutral geometry, K-land / Géo. neutre avec chan. d'arête									
RHHT1605M0TN	0,25/0,50	positive geometry, K-land / Géo. positive avec chan. d'arête									
RHKT1605M0TN-PH2	0,50/1,50	positive roughing geometry, neg. K-land / Géo. positive ébauche, chan. d'arête nég.									
RHHT1605M0TN-P	0,10/0,25	titanium geometry, polished / Géométrie Titane, polie									
RHHT1605M0FN-P	0,15/0,30	non-ferrous geometry, polished / Géo. pour mat. non fer., polie									

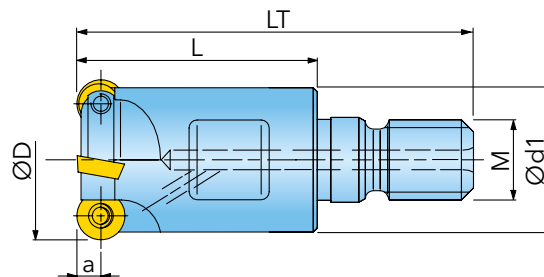
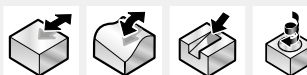
● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES	①	②	③
	SM50-100-10 (6,0Nm)	TX20x90-B	CL-5000

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx ③ = Clamping disk / Bride de fixation

FORMMASTER⁺ COPY END MILL 15B2E...X FRAISE A COPIER 15B2E...X

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation
Réf. de l'article

D d1 LT L a M Z



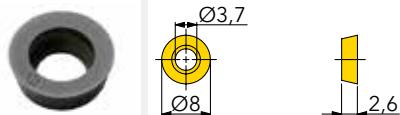
15B2E016023X5R00

16 13 40,8 23 4 M8 2 2

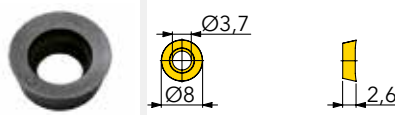
✓ 0,02

Positive design / Version positive

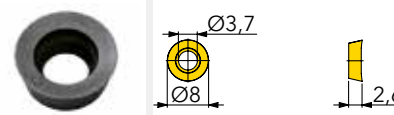
RHHW0802MOTN



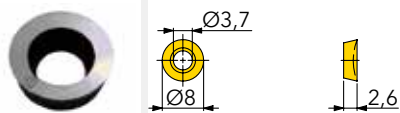
RHHT0802MOTN



RHHT0802MOTN-P



RHHT0802M0FN-P



Designation
Réf. de l'article

fz(min/max)

Design
Conception

Grade
Nuance

IN05S

IN2004

IN2005

IN2006

IN2035

RHHW0802MOTN

0,20/0,40

neutral geometry, K-land / Géo. neutre avec chan. d'arête

RHHT0802MOTN

0,10/0,20

positive geometry, K-land / Géo. positive avec chan. d'arête

RHHT0802MOTN-P

0,10/0,20

titanium geometry, polished / Géométrie Titane, polie

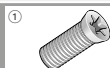
RHHT0802M0FN-P

0,10/0,30

non-ferrous geometry, polished / Géo. pour mat. non fer., polie

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

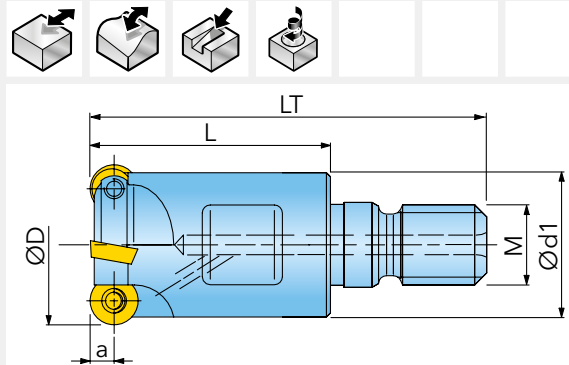


SM30-053-00 (2,0Nm)

TX09x90-B

① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	d1	LT	L	a	M	Z		IK	kg
15B2G020030X6R00	20	18	49,8	30	5	M10	2	3,5	✓	0,05
15B2G025035X7R00	25	21	57	35	5	M12	3	2	✓	0,09
15B2G030043X8R00	30	29	67	43	5	M16	3	10	✓	0,19
15B2G035043X8R00	35	29	67	43	5	M16	4	7,5	✓	0,21
15B2G042043X8R00	42	29	67	43	5	M16	5	5,5	✓	0,23

Positive design / Version positive

RHKW1003M0TN	RHHW1003M0TN	RHHT1003M0TN
RHHT1003M0TN-P	RHHT1003M0FN-P	

Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN05S	IN2004	IN2005	IN2006	IN2035	IN2505	IN4015	IN7035
RHKW1003M0TN	0,25/0,60	neutral roughing geometry / Géo. neutre pour ébauche									
RHHW1003M0TN	0,25/0,50	neutral geometry, K-land / Géo. neutre avec chan. d'arête									
RHHT1003M0TN	0,15/0,40	positive geometry, K-land / Géo. positive avec chan. d'arête									
RHHT1003M0TN-P	0,10/0,20	titanium geometry, polished / Géométrie Titane, polie									
RHHT1003M0FN-P	0,15/0,30	non-ferrous geometry, polished / Géo. pour mat. non fer., polie									

● = P ● = M ● = K ● = N ● = S ○ = H

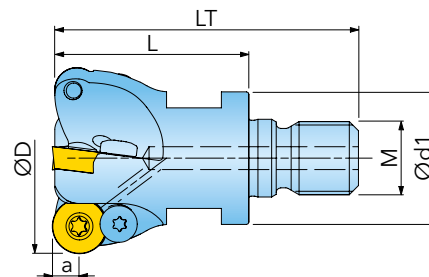
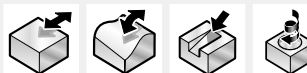
SPARE PARTS ACCESSOIRES	①	②

Diameter Range / Diamètres

20	SM40-070-00 (4,5Nm)	TX15x90-B
25 - 42	SM40-080-10 (4,5Nm)	TX15x90-B

① = Insert screw / Vis de serrage plaqueette ② = Torx-Bit / Embout torx

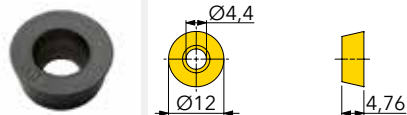
SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



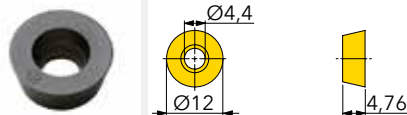
Designation Réf. de l'article	D	d1	LT	L	a	M	Z		IK	kg
15B2H024035X7R00	24	21	57	35	6	M12	2	3,5	✓	0,08
15B2H032043X8R00	32	29	67	43	6	M16	3	2	✓	0,18
15B2H035043X8R00	35	29	67	43	6	M16	3	2	✓	0,19
15B2H040043X8R00	40	29	67	43	6	M16	4	2,5	✓	0,25
15B2H042043X8R00	42	29	67	43	6	M16	4	2	✓	0,25

Positive design / Version positive

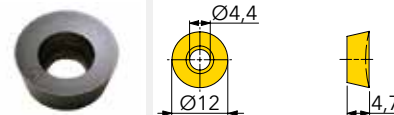
RHKW1204M0TN



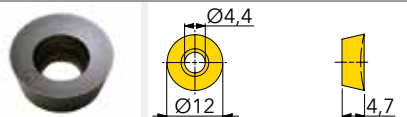
RHHW1204M0TN



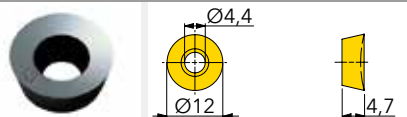
RHHT1204M0TN



RHHT1204M0TN-P



RHHT1204M0FN-P



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN05S	IN2004	IN2005	IN2006	IN2035	IN2505	IN4015	IN7035
RHKW1204M0TN	0,25/0,80	neutral roughing geometry / Géo. neutre avec chan. d'arête									
RHHW1204M0TN	0,25/0,60	neutral geometry, K-land / Géo. neutre pour ébauche									
RHHT1204M0TN	0,25/0,50	positive geometry, K-land / Géo. positive avec chan. d'arête									
RHHT1204M0TN-P	0,10/0,25	titanium geometry, polished / Géométrie Titane, polie									
RHHT1204M0FN-P	0,15/0,30	non-ferrous geometry, polished / Géo. pour mat. non fer., polie									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



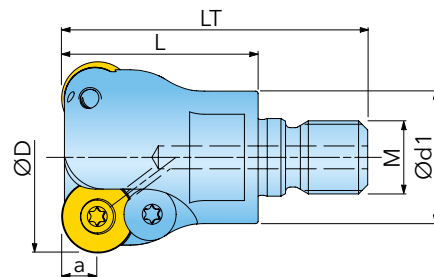
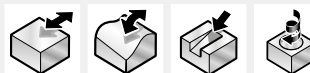
SM40-080-10 (4,5Nm)

TX15x90-B

SF035-01 (2,0Nm)

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx ③ = Clamping screw / Vis de serrage

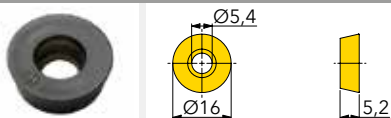
SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



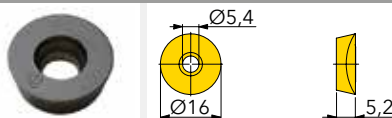
Designation Réf. de l'article	D	d1	LT	L	a	M	Z		IK	kg
15B2K032043X8R00	32	29	67	43	8	M16	2	2	✓	0,16
15B2K042043X8R00	42	29	67	43	8	M16	3	2	✓	0,25

Positive design / Version positive

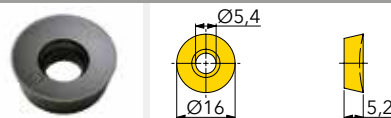
RHKW1605M0TN



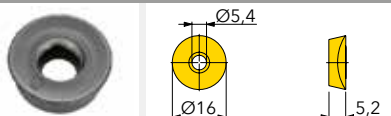
RHHW1605M0TN



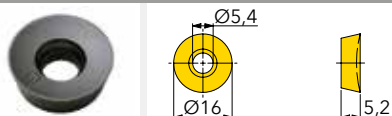
RHHT1605M0TN



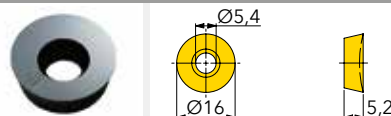
RHKT1605M0TN-PH2



RHHT1605M0TN-P



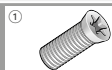
RHHT1605M0FN-P



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN05S	IN2004	IN2005	IN2035	IN2505	IN4015	IN4030	IN7035
RHKW1605M0TN	0,30/1,00	neutral roughing geometry / Géo. neutre pour ébauche									
RHHW1605M0TN	0,30/0,80	neutral geometry, K-land / Géo. neutre avec chan. d'arête									
RHHT1605M0TN	0,25/0,50	positive geometry, K-land / Géo. positive avec chan. d'arête									
RHKT1605M0TN-PH2	0,50/1,50	positive roughing geometry, neg. K-land / Géo. positive ébauche, chan. d'arête nég.									
RHHT1605M0TN-P	0,10/0,25	titanium geometry, polished / Géométrie Titane, polie									
RHHT1605M0FN-P	0,15/0,30	non-ferrous geometry, polished / Géo. pour mat. non fer., polie									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



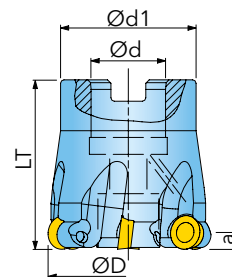
SM50-100-10 (6,0Nm)

TX20x90-B

CL-5000

① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx ③ = Clamping disk / Bride de fixation

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation
Réf. de l'article

D d d1 LT a Z



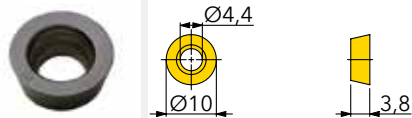
5W7G052R00

52 22 40 50 5 6 4

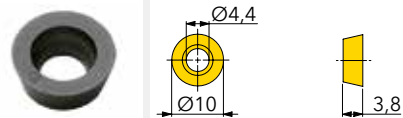
✓ 0,36

Positive design / Version positive

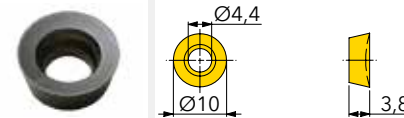
RHKW1003M0TN



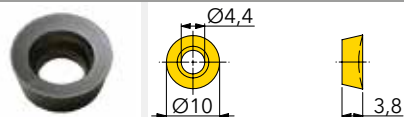
RHHW1003M0TN



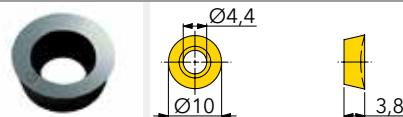
RHHT1003M0TN



RHHT1003M0TN-P



RHHT1003M0FN-P



Designation
Réf. de l'article

fz(min/max)

Design
Conception

Grade
Nuance

IN05S

IN2004

IN2005

IN2006

IN2035

IN2505

IN4015

IN7035

RHKW1003M0TN

0,25/0,60

neutral roughing geometry / Géo. neutre pour ébauche



RHHW1003M0TN

0,25/0,50

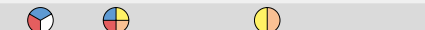
neutral geometry, K-land / Géo. neutre avec chan. d'arête



RHHT1003M0TN

0,15/0,40

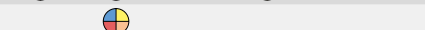
positive geometry, K-land / Géo. positive avec chan. d'arête



RHHT1003M0TN-P

0,10/0,20

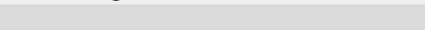
titanium geometry, polished / Géométrie Titane, polie



RHHT1003M0FN-P

0,15/0,30

non-ferrous geometry, polished / Géo. pour mat. non fer., polie



● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

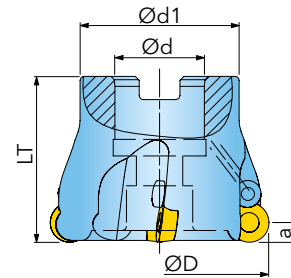
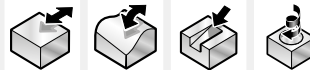


SM40-080-10 (4,5Nm)

TX15x90-B

① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

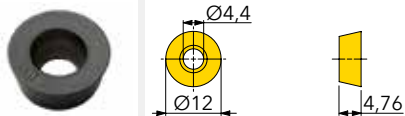
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



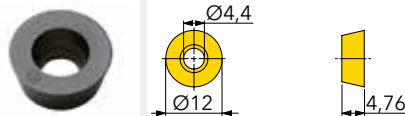
Designation Réf. de l'article	D	d	d1	LT	a	Z			
5W7H052R00	52	22	40	50	6	5	4	✓	0,33
5W7H066R00	66	27	48	50	6	6	3	✓	0,56
5W7H080R00	80	27	60	50	6	7	2	✓	1,00

Positive design / Version positive

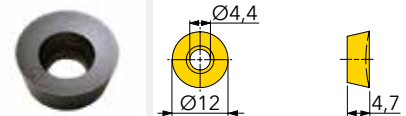
RHKW1204M0TN



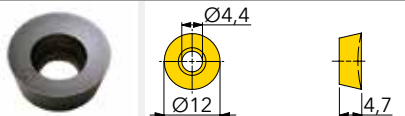
RHHW1204M0TN



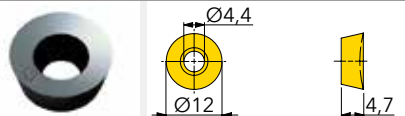
RHHT1204M0TN



RHHT1204M0TN-P



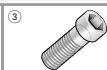
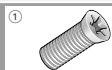
RHHT1204M0FN-P



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN05S	IN2004	IN2005	IN2006	IN2035	IN2505	IN4015	IN7035
RHKW1204M0TN	0,25/0,80	neutral roughing geometry / Géo. neutre avec chan. d'arête									
RHHW1204M0TN	0,25/0,60	neutral geometry, K-land / Géo. neutre pour ébauche									
RHHT1204M0TN	0,25/0,50	positive geometry, K-land / Géo. positive avec chan. d'arête									
RHHT1204M0TN-P	0,10/0,25	titanium geometry, polished / Géométrie Titane, polie									
RHHT1204M0FN-P	0,15/0,30	non-ferrous geometry, polished / Géo. pour mat. non fer., polie									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



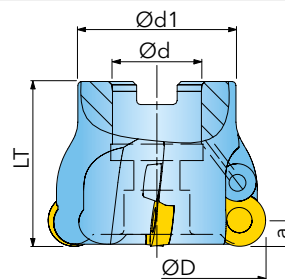
SM40-080-10 (4,5Nm)

TX15x90-B

SF035-01 (2,0Nm)

① = Insert screw / Vis de serrage plaquelette ② = Torx-Bit / Embout torx ③ = Clamping screw / Vis de serrage

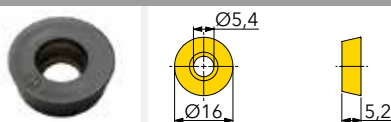
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



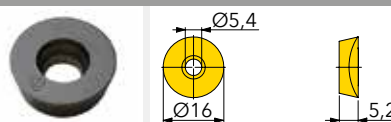
Designation Réf. de l'article	D	d	d1	LT	a	Z			
5W7K052R00	52	22	40	50	8	4	2,5	✓	0,30
5W7K066R00	66	27	48	50	8	5	3,5	✓	0,51
5W7K080R00	80	27	60	50	8	6	2,5	✓	1,00
5W7K100R00	100	32	70	55	8	7	2	✓	1,45
5W7K125R00	125	40	90	55	8	8	1,5		2,45
5W7K160R00	160	40	120	55	8	9	1		4,53

Positive design / Version positive

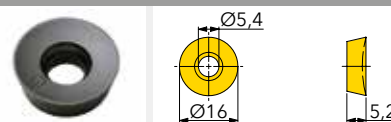
RHKW1605M0TN



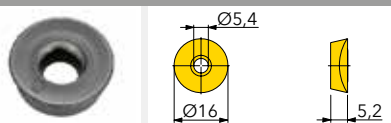
RHHW1605M0TN



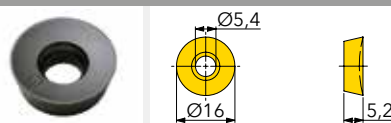
RHHT1605M0TN



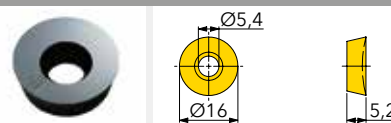
RHKT1605M0TN-PH2



RHHT1605M0TN-P



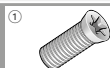
RHHT1605M0FN-P



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN05S	IN2004	IN2005	IN2035	IN2505	IN4015	IN4030	IN7035
RHKW1605M0TN	0,30/1,00	neutral roughing geometry / Géo. neutre pour ébauche									
RHHW1605M0TN	0,30/0,80	neutral geometry, K-land / Géo. neutre avec chan. d'arête									
RHHT1605M0TN	0,25/0,50	positive geometry, K-land / Géo. positive avec chan. d'arête									
RHKT1605M0TN-PH2	0,50/1,50	positive roughing geometry, neg. K-land / Géo. positive ébauche, chan. d'arête nég.									
RHHT1605M0TN-P	0,10/0,25	titanium geometry, polished / Géométrie Titane, polie									
RHHT1605M0FN-P	0,15/0,30	non-ferrous geometry, polished / Géo. pour mat. non fer., polie									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



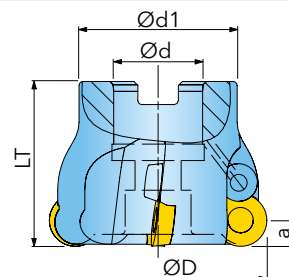
SM50-100-10 (6,0Nm)

TX20x90-B

CL-5000

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx ③ = Clamping disk / Bride de fixation

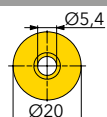
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



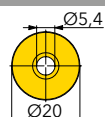
Designation Réf. de l'article	D	d	d1	LT	a	Z			
5W7M066R00	66	27	48	50	10	5	2,5	✓	0,51
5W7M080R00	80	27	60	50	10	6	5	✓	1,00
5W7M100R00	100	32	70	55	10	7	3,5	✓	1,24
5W7M125R00	125	40	90	55	10	8	2,5		2,00
5W7M160R00	160	40	120	55	10	9	2		4,80

Positive design / Version positive

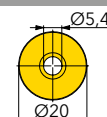
RHKW2006M0TN



RHKT2006M0TN-PH2



RHKT2006M0TN-PH



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2005	IN4015	IN4030	IN4040				
RHKW2006M0TN	0,40/1,00	neutral roughing geometry / Géo. neutre pour ébauche									
RHKT2006M0TN-PH2	0,50/1,50	positive roughing geometry, neg. K-land / Géo. positive ébauche, chan. d'arête nég.									
RHKT2006M0TN-PH	0,25/0,50	positive roughing geometry, K-land / Géo. positive avec chan. d'arête									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

①



②



③



SM50-100-10 (6,0Nm)

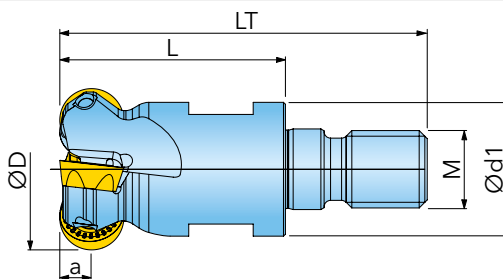
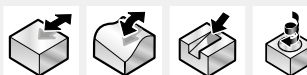
TX20x90-B

CL-5000

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx ③ = Clamping disk / Bride de fixation

BLADEMASTER⁺ COPY END MILL 15B5G...X **FRAISE A COPIER 15B5G...X**

SCREW-IN TYPE ADAPTION ATTACHEMENT FILETÉ



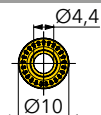
Designation Réf. de l'article

D d1 LT L a M Z

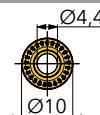


Designation Réf. de l'article	D	d1	LT	L	a	M	Z			
15B5G020030X6R00	20	18	49,8	30	2,5	M10	2	6,0	✓	0,06
15B5G025035X7R00	25	21	57	35	2,5	M12	3	4,4	✓	0,10
15B5G032043X8R00	32	29	67	43	2,5	M16	4	2,2	✓	0,20
15B5G035043X8R00	35	29	67	43	2,5	M16	5	2,0	✓	0,22

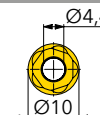
RPLX10T3M0N-HR1



RPLX10T3M0TN-HR



RPLX10T3M0TN-FL



Designation Réf. de l'article

fz(min/max)

Design Conception

Grade
Nuance

IN2505

IN6537

IN7036

Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2505	IN6537	IN7036						
RPLX10T3M0N-HR1	0,08/0,40	positive geometry / Géométrie positive										
RPLX10T3M0TN-HR	0,10/0,40	positive geometry, neg. K-land / Géométrie positive, renfort négatif										
RPLX10T3M0TN-FL	0,08/0,40	positive geometry, K-land / Géométrie positive, renforcée										

● = P ● = M ● = K ● = N ● = S ○ = H

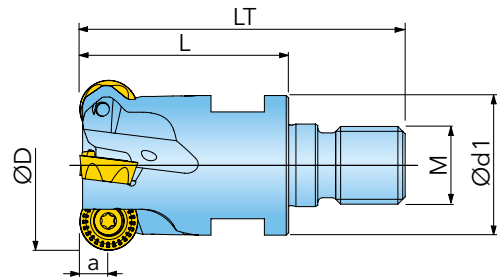
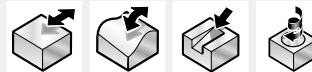
SPARE PARTS ACCESSOIRES



SM35-076-10 (3,0Nm) TX10x90-B

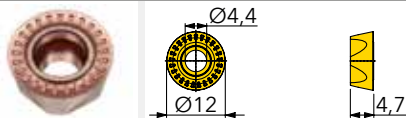
① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

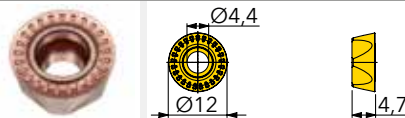


Designation Réf. de l'article	D	d1	LT	L	a	M	Z		IK	kg
15B5H032043X8R00	32	29	67	43	3	M16	3	3,9	✓	0,20
15B5H035043X8R00	35	29	67	43	3	M16	4	2,6	✓	0,21
15B5H040043X8R00	40	29	67	43	3	M16	5	2,4	✓	0,22
15B5H042043X8R00	42	29	67	43	3	M16	5	4,0	✓	0,33

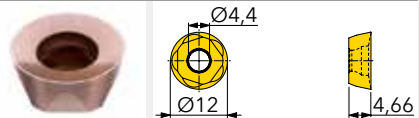
RPLX1204M0N-HR1



RPLX1204M0TN-HR



RPLX1204M0TN-FL



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2505	IN7036						
RPLX1204M0N-HR1	0,10/0,50	positive geometry / Géométrie positive									
RPLX1204M0TN-HR	0,10/0,50	positive geometry, neg. K-land / Géométrie positive, renfort négatif									
RPLX1204M0TN-FL	0,10/0,50	positive geometry, K-land / Géométrie positive, renforcée									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

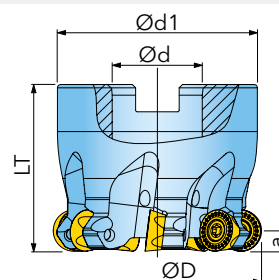


SO 35080I (3,0Nm)

TX15x90-B

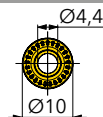
① = Clamp screw / Vis de serrage ② = Torx-Bit / Embout torx

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

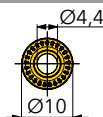


Designation Réf. de l'article	D	d	d1	LT	a	Z			
5B5G040R01	40	16	38	40	2,5	6	5,6	✓	0,25
5B5G042R01	42	16	40	40	2,5	6	5,8	✓	0,28
5B5G050R01	50	22	48	40	2,5	7	5,0	✓	0,38
5B5G052R01	52	22	50	40	2,5	7	4,7	✓	0,40
5B5G063R01	63	22	61	40	2,5	8	3,6	✓	0,70

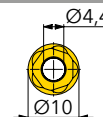
RPLX10T3M0N-HR1



RPLX10T3M0TN-HR



RPLX10T3M0TN-FL



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2505	IN6537	IN7036					
RPLX10T3M0N-HR1	0,08/0,40	positive geometry / Géométrie positive									
RPLX10T3M0TN-HR	0,10/0,40	positive geometry, neg. K-land / Géométrie positive, renfort négatif									
RPLX10T3M0TN-FL	0,08/0,40	positive geometry, K-land / Géométrie positive, renforcée									

● = P ● = M ● = K ● = N ● = S ○ = H

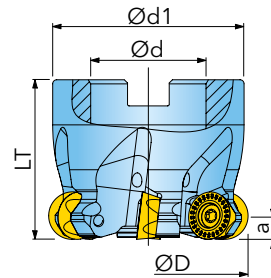
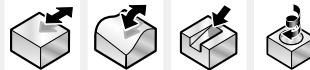
SPARE PARTS
ACCESSOIRES



SM35-076-10 (3,0Nm) TX10x90-B

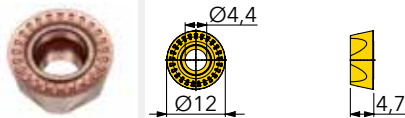
① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

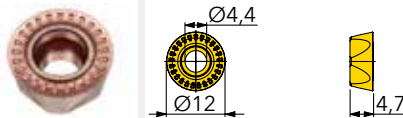


Designation Réf. de l'article	D	d	d1	LT	a	Z			
5B5H040R01	40	16	38	40	3	5	2,4	✓	0,24
5B5H042R01	42	16	40	40	3	5	4	✓	0,27
5B5H050R01	50	22	48	40	3	6	5,6	✓	0,37
5B5H052R01	52	22	50	40	3	6	5,3	✓	0,40
5B5H063R01	63	22	61	40	3	7	4	✓	0,64
5B5H066R01	66	27	64	50	3	7	3,7	✓	0,90
5B5H080R01	80	27	78	50	3	9	2,9	✓	1,44

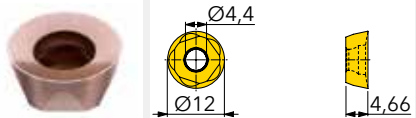
RPLX1204M0N-HR1



RPLX1204M0TN-HR



RPLX1204M0TN-FL



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2505	IN7036						
RPLX1204M0N-HR1	0,10/0,50	positive geometry / Géométrie positive									
RPLX1204M0TN-HR	0,10/0,50	positive geometry, neg. K-land / Géométrie positive, renfort négatif									
RPLX1204M0TN-FL	0,10/0,50	positive geometry, K-land / Géométrie positive, renforcée									

● = P ● = M ● = K ● = N ● = S ○ = H

**SPARE PARTS
ACCESSOIRES**

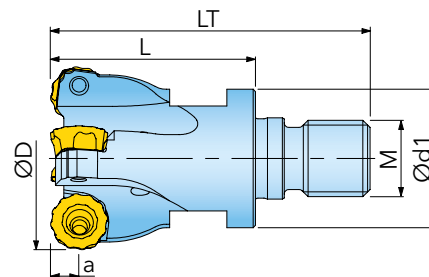
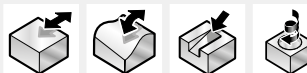


SO 35080I (3,0Nm)

TX15x90-B

① = Clamp screw / Vis de serrage ② = Torx-Bit / Embout torx

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



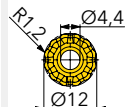
Designation
Réf. de l'article

D d1 LT L a M Z

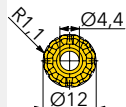


Designation Réf. de l'article	D	d1	LT	L	a	M	Z			
15E1H024035X7R00	24	21	57	35	6	M12	2	1	✓	0,08
15E1H032043X8R00	32	29	67	43	6	M16	3	1,7	✓	0,18
15E1H035043X8R00	35	29	67	43	6	M16	3	2,5	✓	0,19
15E1H040043X8R00	40	29	67	43	6	M16	4	5,7	✓	0,24
15E1H042043X8R00	42	29	67	43	6	M16	4	5,3	✓	0,25

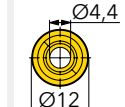
RCLT1204M0N-CC1



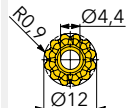
RCLT1204M0N-CC2



RCLT1204M0TN-PH2



RCLT1204M0N-CP



Designation
Réf. de l'article

fz(min/max)

Design
Conception

Grade
Nuance

IN05S

IN2005

IN2035

IN4015

IN4030

Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN05S	IN2005	IN2035	IN4015	IN4030			
RCLT1204M0N-CC1	0,10/0,25	positive geometry R1,2 / Géométrie positive R1,2									
RCLT1204M0N-CC2	0,15/0,30	positive geometry R1,1 K-land / Géo. positive R1,1 avec chan. d'arête									
RCLT1204M0TN-PH2	0,20/0,70	positive geometry, K-land / Géo. positive avec chan. d'arête									
RCLT1204M0N-CP	0,10/0,25	non-ferrous geometry R0,9 / Géo. pour mat. non fer., polie									

● = P ● = M ● = K ● = N ● = S ○ = H

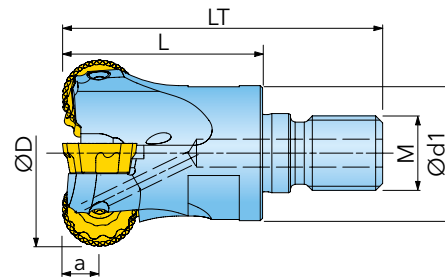
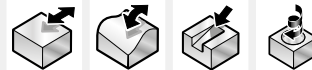
SPARE PARTS
ACCESSOIRES



SM40-090-00 (4,5Nm) TX15x90-B

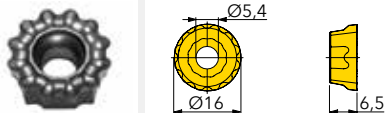
① = Insert screw / Vis de serrage plaquelette ② = Torx-Bit / Embout torx

SCREW-IN TYPE ADAPTION
 ATTACHEMENT FILETÉ

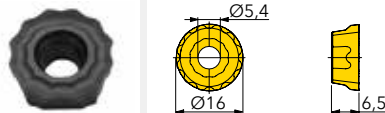


Designation Réf. de l'article	D	d1	LT	L	a	M	Z		IK	kg
15E1K032043X8R00	32	29	67	43	8	M16	2	0,5	✓	0,16
15E1K040043X8R00	40	29	67	43	8	M16	3	1,7	✓	0,23
15E1K042043X8R00	42	29	67	43	8	M16	3	1,7	✓	0,25

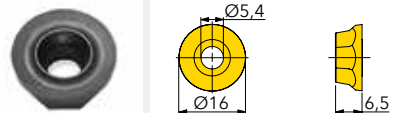
RCLT1606M0N-CC



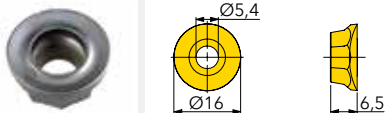
RCLT1606M0N-CC1



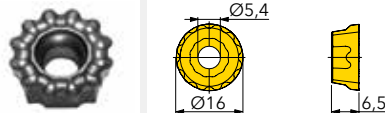
RCLT1606M0TN-PH



RCLT1606M0TN-PH2



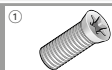
RCLT1606M0N-CP



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN05S	IN2005	IN4015	IN4030	IN4040			
RCLT1606M0N-CC	0,10/0,25	positive steel geometry R1,2 / Géo. positive pour acier R1,2									
RCLT1606M0N-CC1	0,10/0,30	positive steel geometry R1,6 / Géo. positive pour acier R1,6									
RCLT1606M0TN-PH	0,10/0,50	positive steel geometry / Géo. positive pour acier									
RCLT1606M0TN-PH2	0,20/0,80	positive geometry, neg. K-land / Géo. positive avec chan. d'arête									
RCLT1606M0N-CP	0,10/0,25	positive non-ferrous geometry / Géo. pour mat. non fer., polie									

● = P ● = M ● = K ● = N ● = S ○ = H

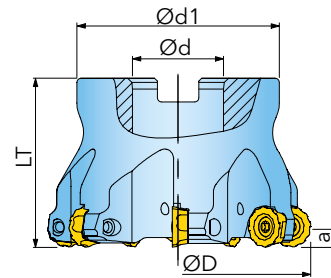
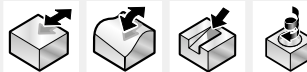
SPARE PARTS
 ACCESSOIRES



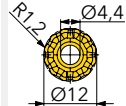
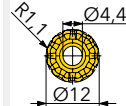
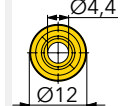
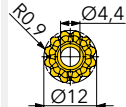
SM50-105-10 (6,0Nm) TX20x90-B

① = Insert screw / Vis de serrage plaquelette ② = Torx-Bit / Embout torx

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

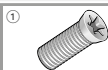


Designation Réf. de l'article	D	d	d1	LT	a	Z			
5E6H050R00	50	22	40	50	6	5	4	✓	0,31
5E6H052R00	52	22	40	50	6	5	4,6	✓	0,32
5E6H063R00	63	27	48	50	6	6	3	✓	0,55
5E6H066R00	66	27	48	50	6	6	2,6	✓	0,56
5E6H080R00	80	27	60	50	6	7	2,1	✓	0,98

RCLT1204M0N-CC1			RCLT1204M0N-CC2			RCLT1204M0TN-PH2					
											
RCLT1204M0N-CP											
											
Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN05S	IN2005	IN2035	IN4015	IN4030			
RCLT1204M0N-CC1	0,10/0,25	positive geometry R1,2 / Géométrie positive R1,2									
RCLT1204M0N-CC2	0,15/0,30	positive geometry R1,1 K-land / Géo. positive R1,1 avec chan. d'arête									
RCLT1204M0TN-PH2	0,20/0,70	positive geometry, K-land / Géo. positive avec chan. d'arête									
RCLT1204M0N-CP	0,10/0,25	non-ferrous geometry R0,9 / Géo. pour mat. non fer., polie									

● = P ● = M ● = K ● = N ● = S ○ = H

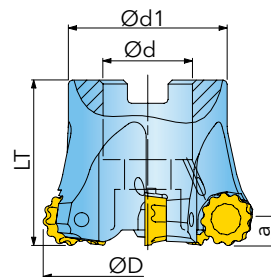
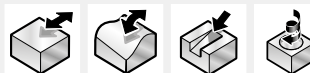
SPARE PARTS
ACCESSOIRES



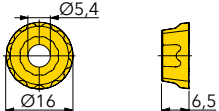
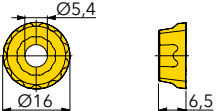
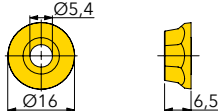
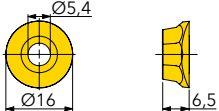
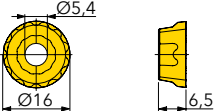
SM40-090-00 (4,5Nm) TX15x90-B

① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

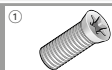


Designation Réf. de l'article	D	d	d1	LT	a	Z			
5E6K050R00	50	22	40	50	8	4	7,6	✓	0,36
5E6K052R00	52	22	40	50	8	4	7,8	✓	0,36
5E6K063R00	63	27	48	50	8	5	6,1	✓	0,56
5E6K066R00	66	27	48	50	8	5	5,8	✓	0,56
5E6K080R00	80	27	60	50	8	6	4,2	✓	1,00
5E6K100R00	100	32	70	55	8	7	3		1,38
5E6K125R00	125	40	90	55	8	8	2,3		2,44
5E6K160R00	160	40	120	55	8	9	2		4,67

RCLT1606M0N-CC			RCLT1606M0N-CC1			RCLT1606M0TN-PH					
											
RCLT1606M0TN-PH2			RCLT1606M0N-CP								
											
Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN05S	IN2005	IN4015	IN4030	IN4040			
RCLT1606M0N-CC	0,10/0,25	positive steel geometry R1,2 / Géo. positive pour acier R1,2									
RCLT1606M0N-CC1	0,10/0,30	positive steel geometry R1,6 / Géo. positive pour acier R1,6									
RCLT1606M0TN-PH	0,10/0,50	positive steel geometry / Géo. positive pour acier									
RCLT1606M0TN-PH2	0,20/0,80	positive geometry, neg. K-land / Géo. positive avec chan. d'arête									
RCLT1606M0N-CP	0,10/0,25	positive non-ferrous geometry / Géo. pour mat. non fer., polie									

● = P ● = M ● = K ● = N ● = S ○ = H

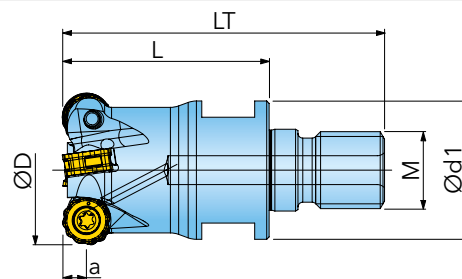
SPARE PARTS
ACCESSOIRES



SM50-120-10 (6,0Nm) TX20x90-B

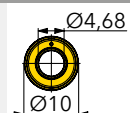
① = Insert screw / Vis de serrage plaqueette ② = Torx-Bit / Embout torx

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

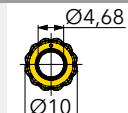


Designation Réf. de l'article	D	d1	LT	L	a	M	Z			
1DE6G025035X7R00	25	21	57	35	5	M12	3	1,1	✓	0,1
1DE6G032043X8R00	32	29	67	43	5	M16	4	0,9	✓	0,2
1DE6G042043X8R00	42	29	67	43	5	M16	5	0,9	✓	0,3

RNLU1004MON-M



RNLU1004MON-S



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2035	IN2505	IN2530					
RNLU1004MON-M	0,10/0,50	positive geometry / Géométrie positive		●	●	●					
RNLU1004MON-S	0,10/0,50	positive roughing geometry / Géo. positive ébauche		●	●	●					

● = P ● = M ● = K ● = N ● = S ○ = H

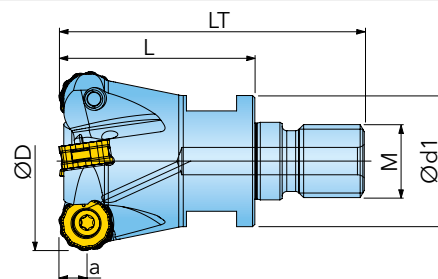
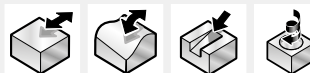
SPARE PARTS
ACCESSOIRES



TS 35085/HG (3,0Nm) TX15x90-B

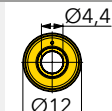
① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

SCREW-IN TYPE ADAPTION
 ATTACHEMENT FILETÉ

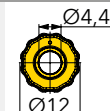


Designation Réf. de l'article	D	d1	LT	L	a	M	Z		IK	kg
1DE6H032043X8R00	32	29	67	43	6	M16	3	1,4	✓	0,2
1DE6H040043X8R00	40	29	67	43	6	M16	4	1,3	✓	0,3

RNLU1205MON-M



RNLU1205MON-S



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2035	IN2505	IN6537	IN7036				
RNLU1205MON-M	0,13/0,60	positive geometry / Géométrie positive									
RNLU1205MON-S	0,13/0,60	positive roughing geometry / Géo. positive ébauche									

● = P ● = M ● = K ● = N ● = S ○ = H

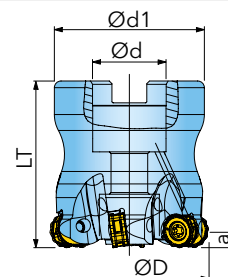
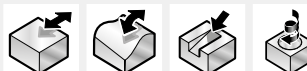
SPARE PARTS
 ACCESSOIRES



SM40-110-00 (4,5Nm) TX15x90-B

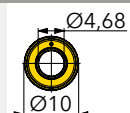
① = Insert screw / Vis de serrage ② = Torx-Bit / Embout torx

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

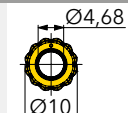


Designation Réf. de l'article	D	d	d1	LT	a	Z			
DE6G040R00	40	16	30	40	5	5	0,9	✓	0,2
DE6G050R00	50	22	40	50	5	6	0,7	✓	0,4
DE6G052R00	52	22	42	50	5	6	0,8	✓	0,4

RNLU1004MON-M



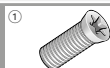
RNLU1004MON-S



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2035	IN2505	IN2530					
RNLU1004MON-M	0,10/0,50	positive geometry / Géométrie positive									
RNLU1004MON-S	0,10/0,50	positive roughing geometry / Géo. positive ébauche									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

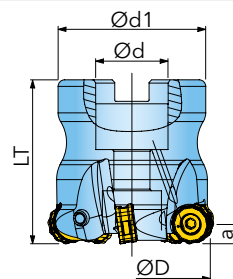
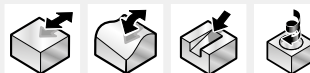


TS 35085/HG (3,0Nm) TX15x90-B

① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

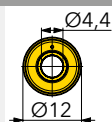
FORMMASTER[®] COPY END MILL DE6H **FRAISE A COPIER DE6H**

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

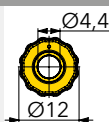


Designation Réf. de l'article	D	d	d1	LT	a	Z			IK	kg
DE6H040R00	40	16	28	40	6	4	1,3		✓	0,2
DE6H050R00	50	22	40	50	6	5	1,0		✓	0,3
DE6H052R00	52	22	40	50	6	5	1,0		✓	0,4
DE6H063R00	63	22	51	50	6	6	1,0		✓	0,6
DE6H066R00	66	27	54	50	6	6	1,0		✓	0,6
DE6H080R00	80	27	68	50	6	7	0,9		✓	1,0
DE6H100R00	100	32	88	50	5	8	0,7		✓	1,5

RNLU1205MON-M



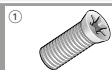
RNLU1205MON-S



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2035	IN2505	IN6537	IN7036				
RNLU1205MON-M	0,13/0,60	positive geometry / Géométrie positive									
RNLU1205MON-S	0,13/0,60	positive roughing geometry / Géo. positive ébauche									

● = P ● = M ● = K ● = N ● = S ○ = H

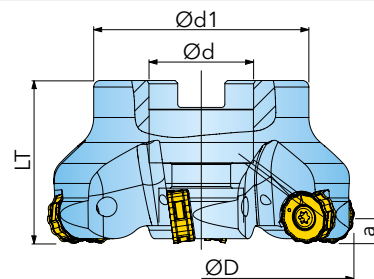
SPARE PARTS ACCESSOIRES



SM40-110-00 (4,5Nm) TX15x90-B

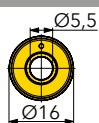
① = Insert screw / Vis de serrage ② = Torx-Bit / Embout torx

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

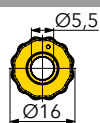


Designation Réf. de l'article	D	d	d1	LT	a	Z			
DE6K050R00	50	16	34	50	8	4	1,3	✓	0,2
DE6K052R00	52	22	36	50	8	4	1,0	✓	0,3
DE6K063R00	63	22	47	50	8	4	1,0	✓	0,5
DE6K066R00	66	27	50	50	8	5	1,0	✓	0,6
DE6K066R01	66	27	50	50	8	6	1,0	✓	0,6
DE6K080R00	80	27	64	50	8	6	1,0	✓	0,8
DE6K100R00	100	32	84	50	8	6	0,9	✓	1,6
DE6K125R00	125	40	109	63	8	8	0,9	✓	2,9
DE6K160R00	160	40	144	63	8	9	0,9	✓	3,8

RNLU1606MON-M



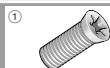
RNLU1606MON-S



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2505	IN6537	IN7036					
RNLU1606MON-M	0,15/0,80	positive geometry / Géométrie positive									
RNLU1606MON-S	0,15/0,80	positive roughing geometry / Géo. positive ébauche									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

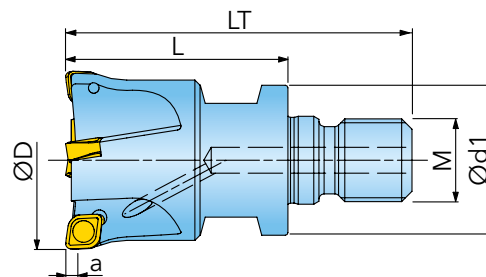
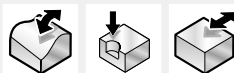


TS 50A1211/HG (6Nm)

TX20x90-B

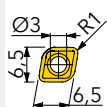
① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

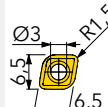


Designation Réf. de l'article	D	d1	LT	L	a	M	Z		IK	kg
15V1D016023X5R00	16	13	40,8	23	1	M8	2	5	✓	0,02
15V1D020030X6R00	20	18	49,8	30	1	M10	3	4	✓	0,05
15V1D025035X7R00	25	21	57	35	1	M12	3	2	✓	0,10
15V1D035043X8R00	35	29	67	43	1	M16	4	1,5	✓	0,21
15V1D042043X8R00	42	29	67	43	1	M16	5	1	✓	0,23

CNHU060310N



CNHU060315N



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2005	IN2006	IN2530					
CNHU060310N ¹⁾	0,10/0,30	positive geometry R1,0 / Géométrie positive R1,0									
CNHU060315N	0,10/0,30	positive geometry R1,5 / Géométrie positive R1,5									

¹⁾ on request in IN3005 (diamond coating) / revêtement diamant IN3005 sur demande

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

①



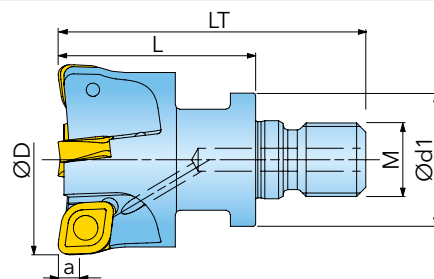
②



SM25-075-20 (1,1Nm) TX08x90-B

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



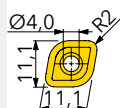
Designation
Réf. de l'article

D d1 LT L a M Z



Designation Réf. de l'article	D	d1	LT	L	a	M	Z			
15V1G025035X7R00	25	21	57	35	2	M12	2	3	✓	0,10
15V1G035043X8R00	35	29	67	43	2	M16	3	2	✓	0,21
15V1G042043X8R00	42	29	67	43	2	M16	4	1,5	✓	0,23

CNHU110420N



Designation
Réf. de l'article

fz(min/max)

Design
Conception

Grade
Nuance

IN2005

IN2006

IN2530

CNHU110420N 0,10/0,40 positive geometry R2,0 / Géométrie positive R2,0



● = P ● = M ● = K ● = N ● = S ○ = H

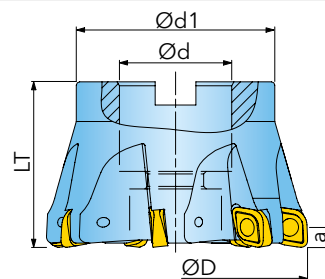
SPARE PARTS
ACCESSOIRES



SM35-088-10 (3,0Nm) TX10x90-B

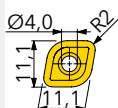
① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

ADAPTION ACC. TO DIN 8030
 ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	d	d1	LT	a	Z		kg
5V6G052R00	52	22	40	50	2	5	1	0,36
5V6G066R00	66	27	48	50	2	6	0,8	0,60
5V6G080R00	80	27	60	50	2	7	0,6	1,00

CNHU110420N



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2005	IN2006	IN2530					
CNHU110420N	0,10/0,40	positive geometry R2,0 / Géométrie positive R2,0									

● = P ● = M ● = K ● = N ● = S ○ = H

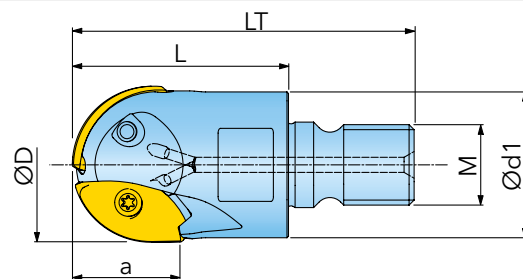
SPARE PARTS
 ACCESSOIRES



SM35-088-10 (3,0Nm) TX10x90-B

① = Insert screw / Vis de serrage plaqueette ② = Torx-Bit / Embout torx

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation
Réf. de l'article

D d1 LT L a M Z



Related Insert
Plaquette préconisée

1TW7Q016025X5R00

16 13 42,8 25 11,8 M8 2



0,02

A

1TW7J020030X6R00

20 18 49,8 30 13,6 M10 2



0,02

B

1TW7K025035X7R00

25 21 57 35 17,7 M12 2



0,09

C

1TW7S032043X8R00

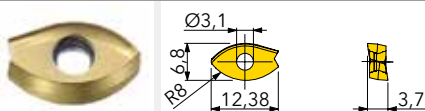
32 29 67 43 21,4 M16 2



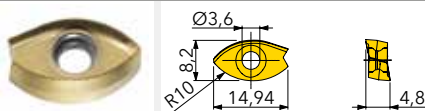
0,16

D

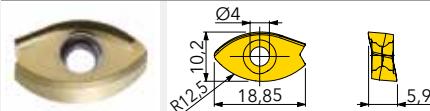
A NBEU1603M0R



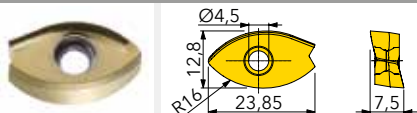
B NBEU2004M0R



C NBEU2505M0R



D NBEU3207M0R



Designation
Réf. de l'article

fz(min/max)

Design
Conception

Grade
Nuance

IN2504

IN2505

IN2530

NBEU1603M0R

0,05/0,30

positive radius insert R8 / Plaquette rayonnée positive R8



NBEU2004M0R

0,05/0,40

positive radius insert R10 / plaquette rayonnée positive R10



NBEU2505M0R

0,05/0,50

positive radius insert R12,5 / plaquette rayonnée positive R12,5



NBEU3207M0R

0,05/0,50

positive radius insert R16 / plaquette rayonnée positive R16



● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

①



②



Diameter Range / Diamètres

16

SM25-064-00 (1,1Nm) TX08x90-B

20

SM30-085-10 (2,0Nm) DS-0022

25

TS 35085I/HG (3,0Nm) TD15

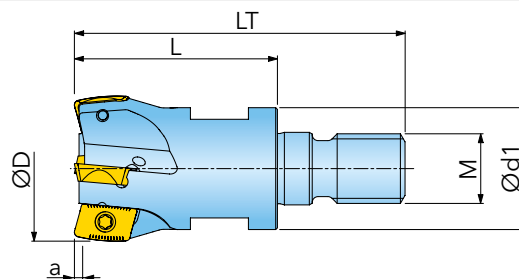
32

SM40-115-00 (4,5Nm) TD15

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

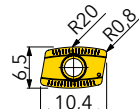
HIPOSPRO^B COPY END MILL FOR FINISHING 12L8J...X **FRAISE A COPIER POUR FINITION 12L8J...X**

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

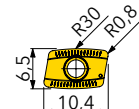


Designation Réf. de l'article	D	d1	LT	L	a	M	Z		
12L8J016023X5R00	16	13	40,8	23	1,2	M8	2	✓	0,023
12L8J020030X6R00	20	18	49,8	30	1,2	M10	3	✓	0,052
12L8J025035X7R00	25	21	57	35	1,2	M12	4	✓	0,091
12L8J035043X8R00	35	29	67	43	1,2	M16	5	✓	0,226
12L8J042043X8R00	42	29	67	43	1,2	M16	6	✓	0,261

CDHT090320R-ML



CDHT090330R-ML



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2504	IN2505						
CDHT090320R-ML	0,07/0,25	positive geometry R20 / Géométrie positive R20									
CDHT090330R-ML	0,07/0,25	positive geometry R30 / Géométrie positive R30									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

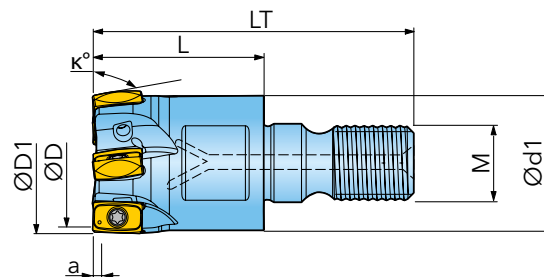


SM25-054-00 (1,1Nm) TX08x90-B

① = Insert screw / Vis de serrage plaqueette ② = Torx-Bit / Embout torx

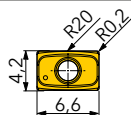
DIPOSPRO^B COPY END MILL FOR FINISHING 12L8D...X **FRAISE A COPIER POUR FINITION 12L8D...X**

SCREW-IN TYPE ADAPTION **ATTACHEMENT FILETÉ**



Designation Réf. de l'article	D	D1	d1	LT	L	κ	a	M	Z		
12L8D012017X4R00	10,95	12	11	31,5	17	80-90	1,2	M6	3	✓	0,075
12L8D016023X5R00	14,95	16	13	40,5	23	80-90	1,2	M8	4	✓	0,085
12L8D020023X6R00	18,95	20	18	43,0	23	80-90	1,2	M10	5	✓	0,110
12L8D025027X7R00	22,95	25	21	49,0	27	80-90	1,2	M12	7	✓	0,140

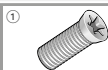
CNHJ060220



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2006							
CNHJ060220	0,07/0,15	positive geometry R20 / Géométrie positive R20									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS **ACCESSOIRES**

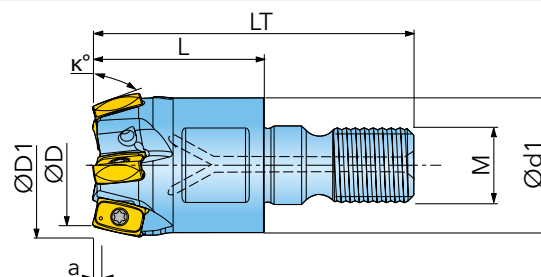


SM18-041-00 (0,5Nm) TXPLUS06x90-B

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

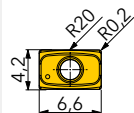
DIPOSPRO^B COPY END MILL FOR FINISHING 12M8D...X **FRAISE A COPIER POUR FINITION 12M8D...X**

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	D1	d1	LT	L	K	a	M	Z	IK	kg
12M8D016023X5R00	12,75	16	13	40,5	23	69-81	1,2	M8	4	✓	0,085
12M8D020023X6R00	16,75	20	18	43,0	23	69-81	1,2	M10	5	✓	0,110
12M8D025027X7R00	21,75	25	21	49,0	27	69-81	1,2	M12	6	✓	0,140

CNHJ060220



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2006							
CNHJ060220	0,07/0,15	positive geometry R20 / Géométrie positive R20									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

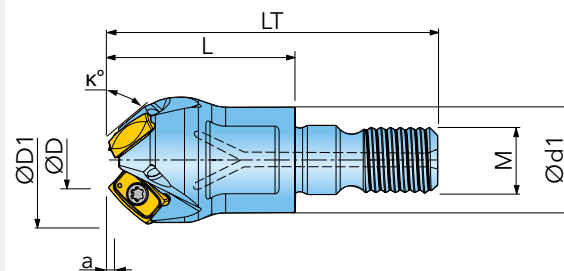


SM18-041-00 (0,5Nm) TXPLUS06x90-B

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

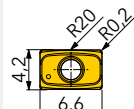
DIPOSPRO[®] COPY END MILL FOR FINISHING 12N8D...X **FRAISE A COPIER POUR FINITION 12N8D...X**

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	D1	d1	LT	L	κ	a	M	Z		
12N8D016023X5R00	7	16	13	40,5	23	39-51	1,2	M8	3	✓	0,085
12N8D020023X6R00	11	20	18	43	23	39-51	1,2	M10	4	✓	0,110

CNHJ060220



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2006							
CNHJ060220	0,07/0,15	positive geometry R20 / Géométrie positive R20									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

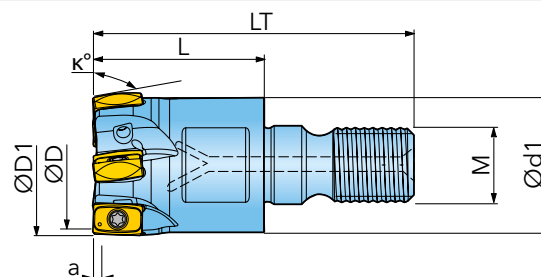


SM18-041-00 (0,5Nm) TXPLUS06x90-B

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

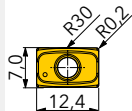
DIPOSPRO^B COPY END MILL FOR FINISHING 12L8G...X **FRAISE A COPIER POUR FINITION 12L8G...X**

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	D1	d1	LT	L	K°	a	M	Z	IK	kg
12L8G020027X6R00	17,5	20	18	47	27	75-90	1,5	M10	3	✓	0,070
12L8G025035X7R00	22,8	25	21	57	35	75-90	1,5	M12	4	✓	0,155
12L8G032038X8R00	29,8	32	29	63	38	75-90	1,5	M16	5	✓	0,255

CNHJ120430



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2006							
CNHJ120430	0,08/0,20	positive geometry R30 / Géométrie positive R30									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



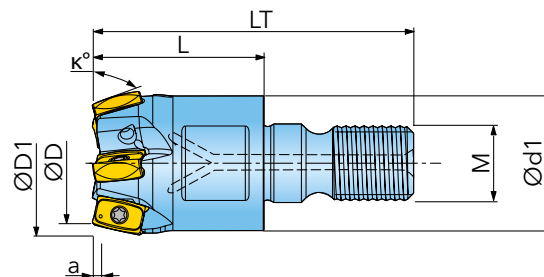
TS 30B068I/HG

TX08x90-B

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

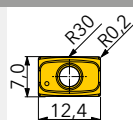
DIPOSPRO^B COPY END MILL FOR FINISHING 12M8G...X **FRAISE À COPIER POUR FINITION 12M8G...X**

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	D1	d1	LT	L	κ	a	M	Z	IK	kg
12M8G020027X6R00	17,5	20	18	47	27	67-83	1,5	M10	3	✓	0,110
12M8G025035X7R00	22,8	25	21	57	35	67-83	1,5	M12	4	✓	0,155
12M8G032038X8R00	29,8	32	29	63	38	67-83	1,5	M16	5	✓	0,255

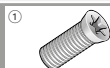
CNHJ120430



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2006							
CNHJ120430	0,08/0,20	positive geometry R30 / Géométrie positive R30									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



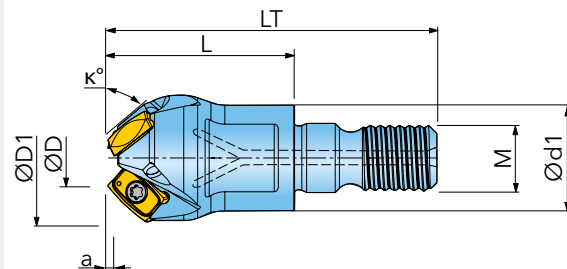
TS 30B068/HG

TX08x90-B

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

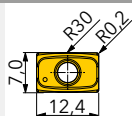
DIPOSPRO^B COPY END MILL FOR FINISHING 12N8G...X
FRAISE A COPIER POUR FINITION 12N8G...X

SCREW-IN TYPE ADAPTION
 ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	D1	d1	LT	L	K°	a	M	Z	IK	kg
12N8G032038X8R00	15	32	29	63	38	37-53	1,5	M16	3	✓	0,245

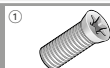
CNHJ120430



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2006							
CNHJ120430	0,08/0,20	positive geometry R30 / Géométrie positive R30									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
 ACCESSOIRES



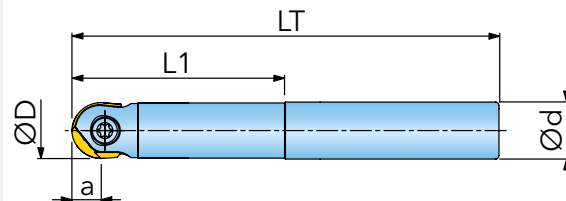
TS 30B068I/HG

TX08x90-B

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

FINEMOLD⁺ COPY MILL CYLINDRICAL 12A9...
FRAISE À COPIER CYLINDRIQUE 12A9...

ADAPTION ACC. TO DIN 1835 A
 ATTACHEMENT DIN 1835 A



Designation Réf. de l'article	D	d	LT	L1	a	Z	Zeff	IK	kg
12A9R008020T0R00	8	8	90	20	4	1	2	✓	0,030
12A9S010030T1R00	10	10	90	30	5	1	2	✓	0,045
12A9T012030T2R00	12	12	110	30	6	1	2	✓	0,085
12A9U016040T3R00	16	16	130	40	8	1	2	✓	0,275
12A9V020040T4R00	20	20	110	40	10	1	2	✓	0,220
12A9V020050T4R00	20	20	150	50	10	1	2	✓	0,315
12A9V020070T4R00	20	20	220	70	10	1	2	✓	0,475

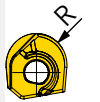
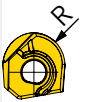
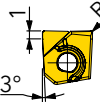
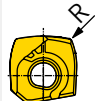
**SPARE PARTS
ACCESSOIRES**



Diameter Range / Diamètres

8	SM25-080-B1 (1,1Nm)	TXPLUS08x90-B
10	SM30-083-B1 (2,0Nm)	TX10x90-B
12	SM40-106-B1 (4,0Nm)	DS-TP15S (TX-Plus)
16	SM50-139-B1 (5,0Nm)	TX20x90-B
20	SM60-167-B1 (6,0Nm)	TX25x90-B

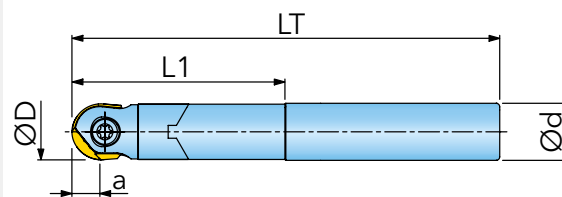
① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

A Ball nose insert neutral / Plaquette hémisphérique neutre							B Ball nose insert helix / Plaquette hémisphérique positive							C Toric insert / Plaquette torique						
																				
																				
D Barrel shape insert / Plaquette conique							E Lens shape insert / Plaquette lenticulaire													
																				
																				
Designation Réf. de l'article	fz(min/max)	R	Grade Nuance	IN2005	IN2006		Designation Réf. de l'article	fz(min/max)	R	Grade Nuance	IN2005	IN2006								
Ball nose insert neutral / Plaquette hémisphérique neutre							GQHG1203R15													
NQHG0802MOR-FM	0,08/0,20	4	A				GQHG1203R20	0,10/0,30	2	C										
NQHG1003MOR-FM	0,10/0,25	5	A				GQHG1604R05	0,10/0,35	0,5	C										
NQHG1203MOR-FM	0,10/0,30	6	A				GQHG1604R10	0,10/0,35	1	C										
NQHG1604MOR-FM	0,10/0,30	8	A				GQHG1604R15	0,10/0,35	1,5	C										
NQHG2005MOR-FM	0,10/0,30	10	A				GQHG1604R20	0,10/0,35	2	C										
NQHG2506MOR-FM	0,10/0,30	12,5	A				GQHG1604R30	0,10/0,40	3	C										
NQHG3007MOR-FM	0,10/0,30	15	A				GQHG2005R05	0,10/0,35	0,5	C										
NQHG3207MOR-FM	0,10/0,30	16	A				GQHG2005R10	0,10/0,35	1	C										
Ball nose insert helix / Plaquette hémisphérique positive							GQHG2005R15	0,10/0,35	1,5	C										
NQHG0802MOR-SM	0,08/0,20	4	B				GQHG2005R20	0,10/0,35	2	C										
NQHG1003MOR-SM	0,10/0,25	5	B				GQHG2005R30	0,10/0,40	3	C										
NQHG1203MOR-SM	0,10/0,30	6	B				GQHG2506R05	0,10/0,40	0,5	C										
NQHG1604MOR-SM	0,10/0,30	8	B				GQHG2506R10	0,10/0,40	1	C										
NQHG2005MOR-SM	0,10/0,30	10	B				GQHG2506R15	0,10/0,40	1,5	C										
NQHG2506MOR-SM	0,10/0,30	12,5	B				GQHG2506R20	0,10/0,40	2	C										
NQHG3007MOR-SM	0,10/0,30	15	B				GQHG2506R30	0,10/0,40	3	C										
NQHG3207MOR-SM	0,10/0,30	16	B				Barrel shape insert / Plaquette conique													
Toric insert / Plaquette torique							NQHB0802R20	0,05/0,12	1,0	D										
GQHG0802R03	0,10/0,20	0,3	C				NQHB1003R25	0,05/0,12	1,2	D										
GQHG0802R05	0,10/0,20	0,5	C				NQHB1203R30	0,08/0,15	1,5	D										
GQHG0802R10	0,10/0,20	1	C				NQHB1604R40	0,08/0,15	2,0	D										
GQHG1003R05	0,10/0,25	0,5	C				NQHB2005R50	0,08/0,15	2,5	D										
GQHG1003R10	0,10/0,25	1	C				NQHB2506R63	0,08/0,15	3,0	D										
GQHG1003R15	0,10/0,25	1,5	C				NQHB3007R75	0,08/0,20	3,5	D										
GQHG1003R20	0,10/0,25	2	C				Lens shape insert / Plaquette lenticulaire													
GQHG1203R05	0,10/0,30	0,5	C				NQHL1203R24	0,08/0,15	0,7	E										
GQHG1203R10	0,10/0,30	1	C				NQHL1604R32	0,08/0,15	0,8	E										

● = P ● = M ● = K ● = N ● = S ○ = H

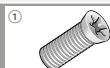
FINEMOLD⁺ COPY MILL CARBIDE SHANK 12A...
FRAISE À COPIER QUEUE CARBURE 12A5...

ADAPTION ACC. TO DIN 1835 A
 ATTACHEMENT DIN 1835 A



Designation Réf. de l'article	D	d	LT	L1	a	Z	Zeff	kg
12A5R008030TOR00	8	8	100	30	4	1	2	0,065
12A5R008075T1R00	8	10	140	75	4	1	2	0,120
12A5S010035T1R00	10	10	100	35	5	1	2	0,100
12A5S010075T1R00	10	10	140	75	5	1	2	0,140
12A5S010140T1R00	10	10	220	140	5	1	2	0,220
12A5T012050T2R00	12	12	120	50	6	1	2	0,170
12A5T012090T2R00	12	12	160	90	6	1	2	0,230
12A5T012150T2R00	12	12	220	150	6	1	2	0,315
12A5U016060T3R00	16	16	120	60	8	1	2	0,290
12A5U016080T3R00	16	16	160	80	8	1	2	0,405
12A5U016150T3R00	16	16	220	150	8	1	2	0,565

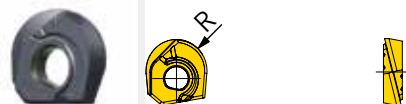
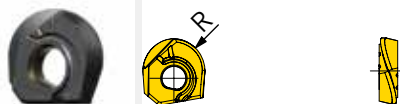
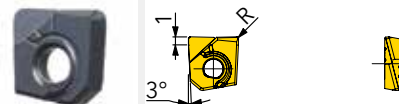
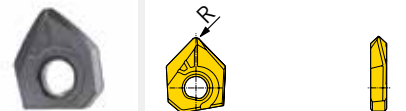
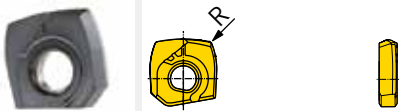
**SPARE PARTS
ACCESSOIRES**



Diameter Range / Diamètres

8	SM25-080-B1 (1,1Nm)	TXPLUS08x90-B
10	SM30-083-B1 (2,0Nm)	TX10x90-B
12	SM40-106-B1 (4,0Nm)	DS-TP15S (TX-Plus)
16	SM50-139-B1 (5,0Nm)	TX20x90-B

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

A Ball nose insert neutral / Plaquette hémisphérique neutre

B Ball nose insert helix / Plaquette hémisphérique positive

C Toric insert / Plaquette torique

D Barrel shape insert / Plaquette conique

E Lens shape insert / Plaquette lenticulaire


Designation Réf. de l'article	fz(min/max)	R	Grade Nuance	IN2005	IN2006
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Ball nose insert neutral / Plaquette hémisphérique neutre

NQHG0802MOR-FM	0,08/0,20	4	A		
NQHG1003MOR-FM	0,10/0,25	5	A		
NQHG1203MOR-FM	0,10/0,30	6	A		
NQHG1604MOR-FM	0,10/0,30	8	A		
NQHG2005MOR-FM	0,10/0,30	10	A		
NQHG2506MOR-FM	0,10/0,30	12,5	A		
NQHG3007MOR-FM	0,10/0,30	15	A		
NQHG3207MOR-FM	0,10/0,30	16	A		

Ball nose insert helix / Plaquette hémisphérique positive

NQHG0802MOR-SM	0,08/0,20	4	B		
NQHG1003MOR-SM	0,10/0,25	5	B		
NQHG1203MOR-SM	0,10/0,30	6	B		
NQHG1604MOR-SM	0,10/0,30	8	B		
NQHG2005MOR-SM	0,10/0,30	10	B		
NQHG2506MOR-SM	0,10/0,30	12,5	B		
NQHG3007MOR-SM	0,10/0,30	15	B		
NQHG3207MOR-SM	0,10/0,30	16	B		

Toric insert / Plaquette torique

GQHG0802R03	0,10/0,20	0,3	C		
GQHG0802R05	0,10/0,20	0,5	C		
GQHG0802R10	0,10/0,20	1	C		
GQHG1003R05	0,10/0,25	0,5	C		
GQHG1003R10	0,10/0,25	1	C		
GQHG1003R15	0,10/0,25	1,5	C		
GQHG1003R20	0,10/0,25	2	C		
GQHG1203R05	0,10/0,30	0,5	C		
GQHG1203R10	0,10/0,30	1	C		

Designation Réf. de l'article	fz(min/max)	R	Grade Nuance	IN2005	IN2006
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GQHG1203R15	0,10/0,30	1,5	C		
GQHG1203R20	0,10/0,30	2	C		
GQHG1604R05	0,10/0,35	0,5	C		
GQHG1604R10	0,10/0,35	1	C		
GQHG1604R15	0,10/0,35	1,5	C		
GQHG1604R20	0,10/0,35	2	C		
GQHG1604R30	0,10/0,40	3	C		
GQHG2005R05	0,10/0,35	0,5	C		
GQHG2005R10	0,10/0,35	1	C		
GQHG2005R15	0,10/0,35	1,5	C		
GQHG2005R20	0,10/0,35	2	C		
GQHG2005R30	0,10/0,40	3	C		
GQHG2506R05	0,10/0,40	0,5	C		
GQHG2506R10	0,10/0,40	1	C		
GQHG2506R15	0,10/0,40	1,5	C		
GQHG2506R20	0,10/0,40	2	C		
GQHG2506R30	0,10/0,40	3	C		

Barrel shape insert / Plaquette conique

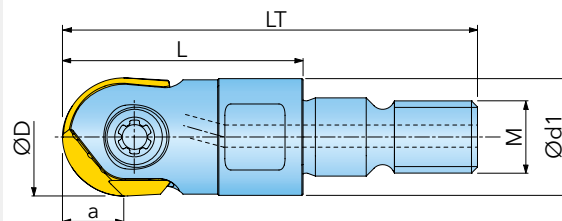
NQHB0802R20	0,05/0,12	1,0	D		
NQHB1003R25	0,05/0,12	1,2	D		
NQHB1203R30	0,08/0,15	1,5	D		
NQHB1604R40	0,08/0,15	2,0	D		
NQHB2005R50	0,08/0,15	2,5	D		
NQHB2506R63	0,08/0,15	3,0	D		
NQHB3007R75	0,08/0,20	3,5	D		

Lens shape insert / Plaquette lenticulaire

NQHL1203R24	0,08/0,15	0,7	E		
NQHL1604R32	0,08/0,15	0,8	E		

● = P ● = M ● = K ● = N ● = S ○ = H

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation
 Réf. de l'article

D d1 LT L a M Z Zeff



12A9S010020X4R00	10	9,7	34,5	20	5	M6	1	2	✓	0,010
12A9T012023X4R00	12	11,5	37,5	23	6	M6	1	2	✓	0,015
12A9T012023X5R00	12	13	40,8	23	6	M8	1	2	✓	0,020
12A9U016030X5R00	16	13	47,8	30	8	M8	1	2	✓	0,030
12A9V020030X6R00	20	19	49,8	30	10	M10	1	2	✓	0,050
12A9W025035X7R00	25	24	57	35	12,5	M12	1	2	✓	0,085
12A9X030043X8R00	30	29	67	43	15	M16	1	2	✓	0,175
12A9Y032043X8R00	32	29,5	67	43	16	M16	1	2	✓	0,185

SPARE PARTS
ACCESSOIRES

①



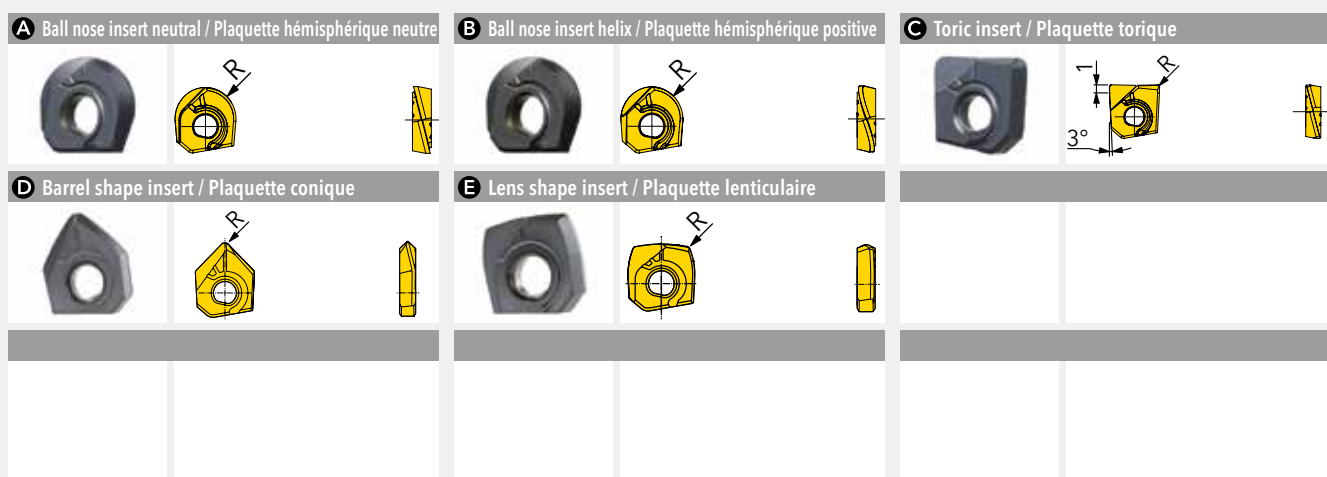
②



Diameter Range / Diamètres

10	SM30-083-B1 (2,0Nm)	TX10x90-B
12	SM40-106-B1 (4,0Nm)	DS-TP15S (TX-Plus)
16	SM50-139-B1 (5,0Nm)	TX20x90-B
20	SM60-167-B1 (6,0Nm)	TX25x90-B
25	SM70-210-B1 (6,0Nm)	TX25x90-B
30 - 32	SM80-250-B1 (8,0Nm)	DS-T30T

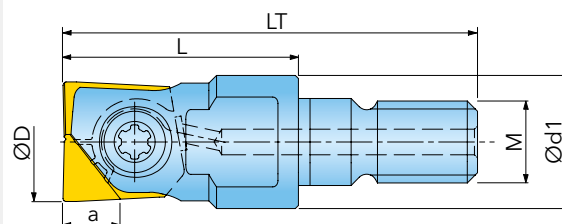
① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx



Designation Réf. de l'article	fz(min/max)	R	Grade Nuance	IN2005	IN2006		Designation Réf. de l'article	fz(min/max)	R	Grade Nuance	IN2005	IN2006	
Ball nose insert neutral / Plaquette hémisphérique neutre							Toric insert / Plaquette torique						
NQHG0802MOR-FM	0,08/0,20	4	A				GQHG1203R15	0,10/0,30	1,5	C			
NQHG1003MOR-FM	0,10/0,25	5	A				GQHG1203R20	0,10/0,30	2	C			
NQHG1203MOR-FM	0,10/0,30	6	A				GQHG1604R05	0,10/0,35	0,5	C			
NQHG1604MOR-FM	0,10/0,30	8	A				GQHG1604R10	0,10/0,35	1	C			
NQHG2005MOR-FM	0,10/0,30	10	A				GQHG1604R15	0,10/0,35	1,5	C			
NQHG2506MOR-FM	0,10/0,30	12,5	A				GQHG1604R20	0,10/0,35	2	C			
NQHG3007MOR-FM	0,10/0,30	15	A				GQHG1604R30	0,10/0,40	3	C			
NQHG3207MOR-FM	0,10/0,30	16	A				GQHG2005R05	0,10/0,35	0,5	C			
Ball nose insert helix / Plaquette hémisphérique positive							GQHG2005R10	0,10/0,35	1	C			
NQHG0802MOR-SM	0,08/0,20	4	B				GQHG2005R15	0,10/0,35	1,5	C			
NQHG1003MOR-SM	0,10/0,25	5	B				GQHG2005R20	0,10/0,35	2	C			
NQHG1203MOR-SM	0,10/0,30	6	B				GQHG2005R30	0,10/0,40	3	C			
NQHG1604MOR-SM	0,10/0,30	8	B				GQHG2506R05	0,10/0,40	0,5	C			
NQHG2005MOR-SM	0,10/0,30	10	B				GQHG2506R10	0,10/0,40	1	C			
NQHG2506MOR-SM	0,10/0,30	12,5	B				GQHG2506R15	0,10/0,40	1,5	C			
NQHG3007MOR-SM	0,10/0,30	15	B				GQHG2506R20	0,10/0,40	2	C			
NQHG3207MOR-SM	0,10/0,30	16	B				GQHG2506R30	0,10/0,40	3	C			
Toric insert / Plaquette torique							Barrel shape insert / Plaquette conique						
GQHG0802R03	0,10/0,20	0,3	C				NQHB0802R20	0,05/0,12	1,0	D			
GQHG0802R05	0,10/0,20	0,5	C				NQHB1003R25	0,05/0,12	1,2	D			
GQHG0802R10	0,10/0,20	1	C				NQHB1203R30	0,08/0,15	1,5	D			
GQHG1003R05	0,10/0,25	0,5	C				NQHB1604R40	0,08/0,15	2,0	D			
GQHG1003R10	0,10/0,25	1	C				NQHB2005R50	0,08/0,15	2,5	D			
GQHG1003R15	0,10/0,25	1,5	C				NQHB2506R63	0,08/0,15	3,0	D			
GQHG1003R20	0,10/0,25	2	C				NQHB3007R75	0,08/0,20	3,5	D			
GQHG1203R05	0,10/0,30	0,5	C				Lens shape insert / Plaquette lenticulaire						
GQHG1203R10	0,10/0,30	1	C				NQHL1203R24	0,08/0,15	0,7	E			
							NQHL1604R32	0,08/0,15	0,8	E			

● = P ● = M ● = K ● = N ● = S ○ = H

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation
Réf. de l'article

D d1 LT L a M Z Zeff



Designation Réf. de l'article	D	d1	LT	L	a	M	Z	Zeff		
12U9S010020X4R00	10	9,7	34,5	20	1	M6	1	2	✓	0,010
12U9T012023X4R00	12	11,5	37,5	23	1	M6	1	2	✓	0,015
12U9T012023X5R00	12	13	40,8	23	1	M8	1	2	✓	0,020
12U9U016030X5R00	16	13	47,8	30	1	M8	1	2	✓	0,030
12U9V020030X6R00	20	19	49,8	30	1	M10	1	2	✓	0,050
12U9W025035X7R00	25	24	57	35	1	M12	1	2	✓	0,090

SPARE PARTS
ACCESSOIRES

①



②

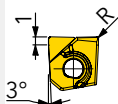


Diameter Range / Diamètres

10	SM30-083-B1 (2,0Nm)	TX10x90-B
12	SM40-106-B1 (4,0Nm)	DS-TP15S (TX-Plus)
16	SM50-139-B1 (5,0Nm)	TX20x90-B
20	SM60-167-B1 (6,0Nm)	TX25x90-B
25	SM70-210-B1 (6,0Nm)	TX25x90-B

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

A Toric insert / Plaque torique



Designation Réf. de l'article	fz(min/max)	R	Grade Nuance	IN2006		
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Toric insert / Plaque torique

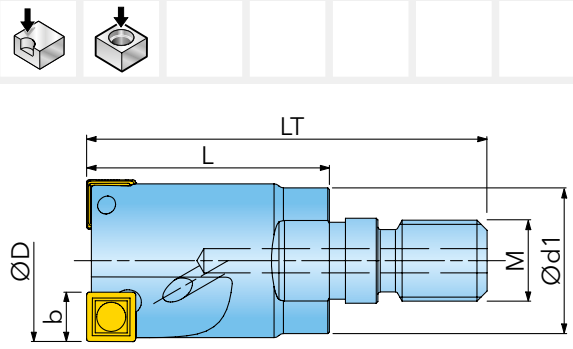
GQHG0802R03	0,10/0,20	0,3	A	
GQHG0802R05	0,10/0,20	0,5	A	
GQHG0802R10	0,10/0,20	1	A	
GQHG1003R05	0,10/0,25	0,5	A	
GQHG1003R10	0,10/0,25	1	A	
GQHG1003R15	0,10/0,25	1,5	A	
GQHG1003R20	0,10/0,25	2	A	
GQHG1203R05	0,10/0,30	0,5	A	
GQHG1203R10	0,10/0,30	1	A	
GQHG1203R15	0,10/0,30	1,5	A	
GQHG1203R20	0,10/0,30	2	A	
GQHG1604R05	0,10/0,35	0,5	A	
GQHG1604R10	0,10/0,35	1	A	
GQHG1604R15	0,10/0,35	1,5	A	

Designation Réf. de l'article	fz(min/max)	R	Grade Nuance	IN2006		
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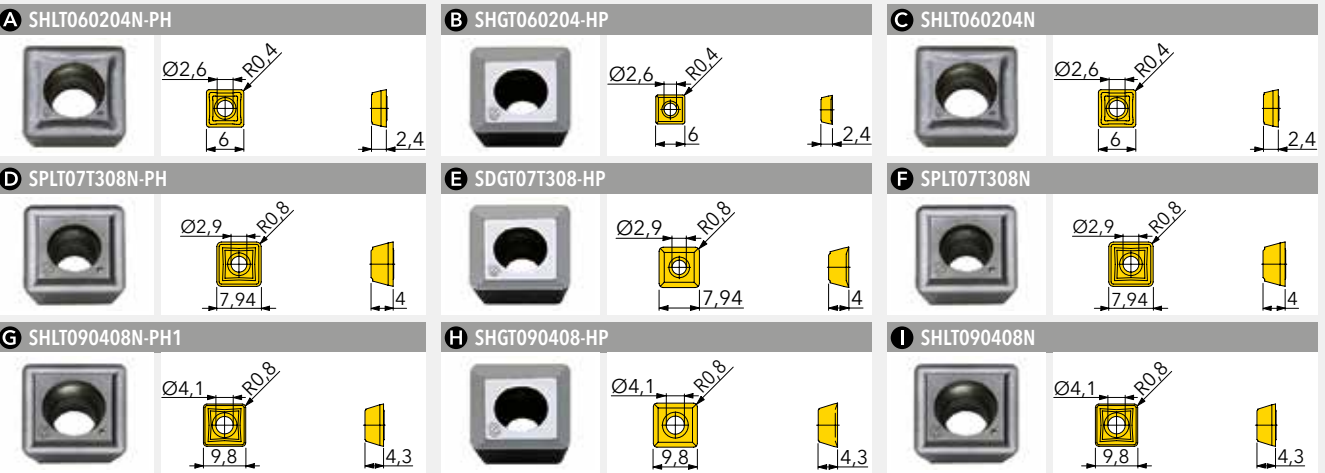
GQHG1604R20	0,10/0,35	2	A	
GQHG1604R30	0,10/0,40	3	A	
GQHG2005R05	0,10/0,35	0,5	A	
GQHG2005R10	0,10/0,35	1	A	
GQHG2005R15	0,10/0,35	1,5	A	
GQHG2005R20	0,10/0,35	2	A	
GQHG2005R30	0,10/0,40	3	A	
GQHG2506R05	0,10/0,40	0,5	A	
GQHG2506R10	0,10/0,40	1	A	
GQHG2506R15	0,10/0,40	1,5	A	
GQHG2506R20	0,10/0,40	2	A	
GQHG2506R30	0,10/0,40	3	A	

● = P ● = M ● = K ● = N ● = S ○ = H

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	d1	LT	L	b	M	Z	IK	kg	Related Insert Plaquette préconisée
DHU016023X5R01	16	13	40,8	23	5	M8	2	✓	0,02	A B C
DHU020030X6R01	20	18	49,8	30	7	M10	2	✓	0,05	D E F
DHU025035X7R01	25	21	57	35	8	M12	2	✓	0,11	G H I
DHU032043X8R01	32	29	67	43	8	M16	3	✓	0,21	G H I
DHU042043X8R01	42	29	67	43	8	M16	4	✓	0,23	G H I



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN10K	IN2005	IN2010	IN2530				
SHLT060204N-PH	0,06/0,20	positive geometry R0,4 / Géométrie positive R0,4									
SHGT060204-HP	0,08/0,15	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									
SHLT060204N	0,08/0,25	cast iron geometry R0,4 / Géométrie fonte R 0,4									
SPLT07T308N-PH	0,06/0,20	positive geometry R0,8 / Géométrie positive R0,8									
SDGT07T308-HP	0,08/0,15	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
SPLT07T308N	0,10/0,25	cast iron geometry R0,8 / Géométrie fonte R 0,8									
SHLT090408N-PH1	0,07/0,22	positive geometry R0,8 / Géométrie positive R0,8									
SHGT090408-HP	0,10/0,20	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
SHLT090408N	0,12/0,25	cast iron geometry R0,8 / Géométrie fonte R 0,8									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

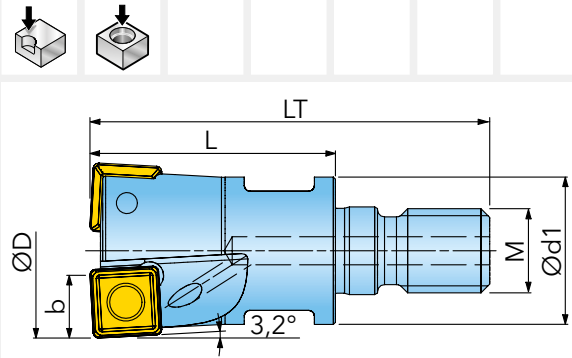


Diameter Range / Diamètres

16	SM22-052-00 (0,8Nm)	TX07x90-B
20	SM25-064-00 (1,1Nm)	TX08x90-B
25 - 42	SM35-088-60 (3,0Nm)	TX10x90-B

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	d1	LT	L	b	M	Z	IK	kg	Related Insert Plaquette préconisée
DHU016023X5R00	16	13	40,8	23	5	M8	2	✓	0,02	A B C
DHU020030X6R00	20	18	49,8	30	7	M10	2	✓	0,05	D E F
DHU025035X7R00	25	21	57	35	8	M12	2	✓	0,11	G H I
DHU032043X8R00	32	29	67	43	8	M16	3	✓	0,21	G H I
DHU042043X8R00	42	29	67	43	8	M16	4	✓	0,23	G H I

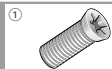
Backdraft 3,2° / Dépouillée de 3,2°

A SHLT060204N-PH	
B SHGT060204-HP	
C SHLT060204N	
D SPLT07T308N-PH	
E SDGT07T308-HP	
F SPLT07T308N	
G SHLT090408N-PH1	
H SHGT090408-HP	
I SHLT090408N	

Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN10K	IN2005	IN2010	IN2530				
SHLT060204N-PH	0,06/0,20	positive geometry R0,4 / Géométrie positive R0,4									
SHGT060204-HP	0,08/0,15	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									
SHLT060204N	0,08/0,25	cast iron geometry R0,4 / Géométrie fonte R0,4									
SPLT07T308N-PH	0,06/0,20	positive geometry R0,8 / Géométrie positive R0,8									
SDGT07T308-HP	0,08/0,15	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
SPLT07T308N	0,10/0,25	cast iron geometry R0,8 / Géométrie fonte R0,8									
SHLT090408N-PH1	0,07/0,22	positive geometry R0,8 / Géométrie positive R0,8									
SHGT090408-HP	0,10/0,20	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
SHLT090408N	0,12/0,25	cast iron geometry R0,8 / Géométrie fonte R0,8									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

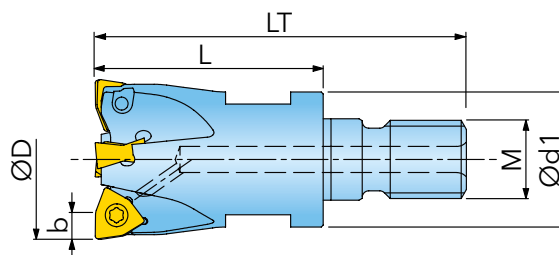


Diameter Range / Diamètres

16	SM22-052-00 (0,8Nm)	TX07x90-B
20	SM25-064-00 (1,1Nm)	TX08x90-B
25 - 42	SM35-088-60 (3,0Nm)	TX10x90-B

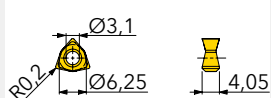
① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

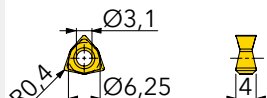


Designation Réf. de l'article	D	d1	LT	L	b	M	Z	IK	kg
FHU020030X6R00	20	18	49,8	30	3,8	M10	3	✓	0,05
FHU025035X7R00	25	21	57	35	3,8	M12	4	✓	0,10
FHU030043X8R00	30	29	67	43	3,8	M16	5	✓	0,19
FHU032043X8R00	32	29	67	43	3,8	M16	6	✓	0,20
FHU035043X8R00	35	29	67	43	3,8	M16	6	✓	0,22
FHU040043X8R00	40	29	67	43	3,8	M16	7	✓	0,25
FHU042043X8R00	42	29	67	43	3,8	M16	7	✓	0,26

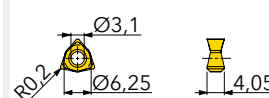
WNMU04T302N



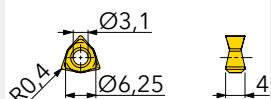
WNMU04T304N



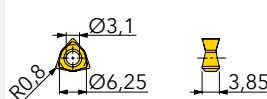
WNCU04T302FN-P



WNCU04T304FN-P



WNCU04T308FN-P



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN10K	IN2035	IN2504	IN2505	IN2530	IN6537	
WNMU04T302N	0,07/0,18	positive geometry R0,2 / Géométrie positive R0,2								
WNMU04T304N	0,07/0,18	positive geometry R0,4 / Géométrie positive R0,4								
WNCU04T302FN-P	0,05/0,20	non-ferrous geometry R0,2 / Géo. pour mat. non fer. R0,2								
WNCU04T304FN-P	0,05/0,20	non-ferrous geometry R0,4 / Géo. pour mat. non fer. R0,4								
WNCU04T308FN-P	0,05/0,20	non-ferrous geometry R0,8 / Géo. pour mat. non fer. R0,8								

● = P ● = M ● = K ● = N ● = S ○ = H

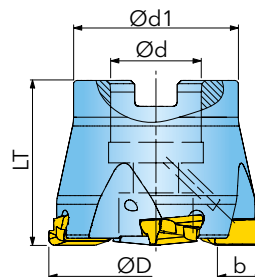
SPARE PARTS
ACCESSOIRES



SM25-064-00 (1,1Nm) TX08x90-B

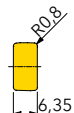
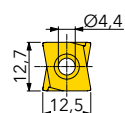
① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

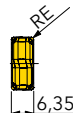
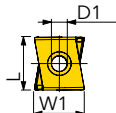


Designation Réf. de l'article	D	d	d1	LT	LK	b	Z	IK	kg
SHU050040F1R51	50	22	40	40	-	10	4	✓	0,30
SHU052040F1R51	52	22	40	40	-	10	4	✓	0,30
SHU066050F2R51	66	27	48	50	-	10	5	✓	0,60
SHU080050F2R51	80	27	60	50	-	10	6	✓	1,00

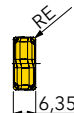
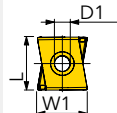
DPM324L116



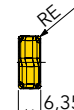
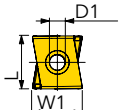
DPM324L050



DPM324L051



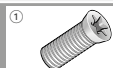
DPM324L050 - P



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN05S	IN2005	IN2035	IN4030	IN4040			
DPM324L116	0,10/0,80	positive geometry R0,8 / Géométrie positive R0,8									
DPM324L050	0,10/0,80	positive geometry R1,6 / Géométrie positive R1,6									
DPM324L051	0,10/0,80	positive geometry, K-land R1,6 / Géo. positive, chan. d'arête R 1,6									
DPM324L050 - P	0,10/0,80	non-ferrous geometry, polished R1,6 / Géo. pour mat. non fer., polie R1,6									

● = P ● = M ● = K ● = N ● = S ○ = H

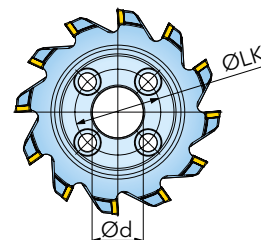
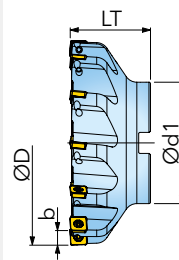
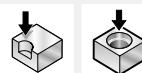
**SPARE PARTS
ACCESSOIRES**



SM40-120-20 (4,5Nm) TX15x90-B

① = Insert screw / Vis de serrage plaqueette ② = Torx-Bit / Embout torx

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



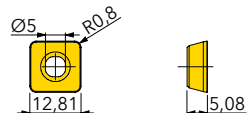
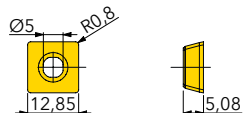
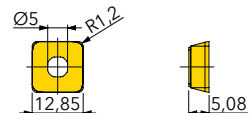
Designation
Réf. de l'article

D d d1 LT LK b Z



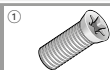
QHU050040F1R00	50	22	40	40	-	11,9	4	✓	0,40
QHU052040F1R00	52	22	40	40	-	11,9	4	✓	0,45
QHU066050F2R00	66	27	48	50	-	11,9	5	✓	0,70
QHU080050F2R00	80	27	60	50	-	11,9	6	✓	1,10

* fz-values see manual „Cutting Data for Milling & Boring Tools“ / * Valeurs fz voir le manuel "Données de coupe de fraisage et perçage" (Chapitre G_Quad)

SDES130508N-PF			SDES130508N-PF1			SDMS130512R-PP					
											
Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2505	IN4005	IN4030	IN4036				
SDES130508N-PF	0,10/0,60	neutral geometry, K-land R0,8 / Géométrie neutre, renforcée R0,8									
SDES130508N-PF1	0,10/0,45	neutral titanium geometry R0,8 / Géométrie neutre titane R0,8									
SDMS130512R-PP	0,10/0,60	positive geometry, sharp R1,2 / Géométrie positive, vive R1,2									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES



SM40-100-R0 (4,5Nm)

DS-A00T

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

HIGH SPEED CUTTER / FRAISES À HAUTE VITESSE

	D	a	Description	Code / Série	Page
	3,6 - 18,6	0,5	GOLD SPEED High Feed Cutter 15G1B...T Fraise grande avance 15G1B...T	15G1B...T	242
	3,6 - 18,6	0,5	GOLD SPEED High Feed Cutter 15G1B...X Fraise grande avance 15G1B...X	15G1B...X	243
	3,6 - 18,6	0,5	GOLD SPEED High Feed Cutter 15G1B... Fraise grande avance 15G1B...	15G1B...	244
	8 - 24	1	GOLD SPEED High Feed Cutter 15G1D...T/U Fraise grande avance 15G1D...T/U	15G1D...T/U	245
	8 - 32	1	GOLD SPEED High Feed Cutter 15G1D...X Fraise grande avance 15G1D...X	15G1D...X	246
	8 - 17	1	GOLD SPEED High Feed Cutter 15G1D... Fraise grande avance 15G1D...	15G1D...	247
	32 - 42	1	GOLD SPEED High Feed Cutter 5G1D Fraise grande avance 5G1D	5G1D	248
	12,9 - 29,8	1,5	GOLD SPEED High Feed Cutter 15G1F...X Fraise grande avance 15G1F...X	15G1F...X	249
	27,8 - 72,8	1,5	GOLD SPEED High Feed Cutter 5G_F Fraise grande avance 5G_F	5G_F	250
	11 - 21	2	GOLD SPEED High Feed Cutter 15M1P...X Fraise grande avance 15M1P...X	15M1P...X	251
	29 - 79	2 - 1,6	GOLD SPEED High Feed Cutter 5M_P Fraise grande avance 5M_P	5M_P	252
	28,2 - 30,2	2,5	GOLD SPEED High Feed Cutter 15G1Q...Z Fraise grande avance 15G1Q...Z	15G1Q...Z	254
	41,2 - 138,2	2,5	GOLD SPEED High Feed Cutter 5G_Q Fraise grande avance 5G_Q	5G_Q	255
	48,6 - 128,6	3	GOLD SPEED High Feed Cutter 5G_M Fraise grande avance 5G_M	5G_M	256

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

HIGH SPEED CUTTER / FRAISES À HAUTE VITESSE

	D	a	Description	Code / Série	Page
	10 - 20	0,5	DIPOSF_{FEED} High Feed Cutter 1TG1B...T Fraise grande avance 1TG1B...T	1TG1B...T	257
	10 - 32	0,5	DIPOSF_{FEED} High Feed Cutter 1TG1B...X Fraise grande avance 1TG1B...X	1TG1B...X	258
	10 - 25	0,5	DIPOSF_{FEED} High Feed Cutter 1TG1B... Fraise grande avance 1TG1B...	1TG1B...	259
	16 - 42	1	DIPOSF_{FEED} High Feed Cutter 1TG1F...X Fraise grande avance 1TG1F...X	1TG1F...X	260
	16 - 40	1	DIPOSF_{FEED} High Feed Cutter 1TG1F...T/U Fraise grande avance 1TG1F...T/U	1TG1F...T/U	261
	32 - 85	1	DIPOSF_{FEED} High Feed Cutter TG1F Fraise grande avance TG1F	TG1F	262
	25 - 42	1,5	DIPOSF_{FEED} High Feed Cutter 1TG1G...X Fraise grande avance 1TG1G...X	1TG1G...X	263
	50 - 80	1,5	DIPOSF_{FEED} High Feed Cutter TG_G Fraise grande avance TG_G	TG_G	264
	30 - 42	2	DIPOSF_{FEED} High Feed Cutter 1TG1J...X Fraise grande avance 1TG1J...X	1TG1J...X	265
	50 - 100	2	DIPOSF_{FEED} High Feed Cutter TG_J Fraise grande avance TG_J	TG_J	266
	7,4 - 33,4	0,8	POWERF_{FEED} ADVANCE High Feed Cutter 15G4D...X Fraise grande avance 15G4D...X	15G4D...X	267
	7,4 - 23,4	0,8	POWERF_{FEED} ADVANCE High Feed Cutter 15G4D...U/T Fraise grande avance 15G4D...U/T	15G4D...U/T	268
	23,4 - 57,4	0,8	POWERF_{FEED} ADVANCE High Feed Cutter 5G5D Fraise grande avance 5G5D	5G5D	269
	9,1 - 32	1	DI_{FEED} ADVANCE High Feed Cutter 1TG1V...T/U Fraise grande avance 1TG1V...T/U	1TG1V...T/U	270

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

HIGH SPEED CUTTER / FRAISES À HAUTE VITESSE

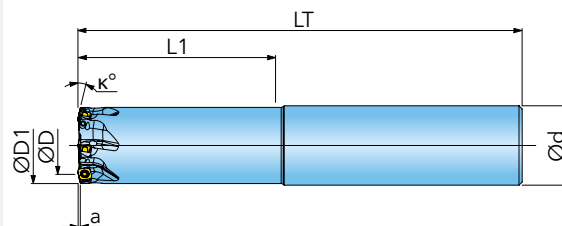
	D	a	Description	Code / Série	Page
	9,1 - 32	1	DI-FEED^{WIN-V} High Feed Cutter 1TG1V...X Fraise grande avance 1TG1V...X	1TG1V...X	271
	24 - 55	1	DI-FEED^{WIN-V} High Feed Cutter TG1V Fraise grande avance TG1V	TG1V	272
	10,6 - 32,4	1	HFD^{MINI} High Feed Cutter 1DP1E Fraise grande avance 1DP1E	1DP1E	273
	30,4 - 56,4	1	HFD^{MINI} High Feed Cutter DP5E Fraise grande avance DP5E	DP5E	274
	50 - 100	1,8	DIPOS^{QUAD} High Feed Cutter DG6G Fraise grande avance DG6G	DG6G	275
	63 - 125	2,5	DIPOS^{QUAD} High Feed Cutter DG6K Fraise grande avance DG6K	DG6K	276
	14,8 - 29,4	1,5	CERAS^{FEED} High Feed Cutter 1ZG3F...T/U Fraise grande avance 1ZG3F...T/U	1ZG3F...T/U	277
	32,8 - 62,6	2,5	CERAS^{FEED} High Feed Cutter DG1H Fraise grande avance DG1H	DG1H	278

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

GOLDSPEED HIGH FEED CUTTER 15G1B...T

FRAISE GRANDE AVANCE 15G1B...T

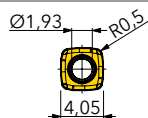
ADAPTION ACC. TO DIN 1835 A
ATTACHEMENT DIN 1835 A



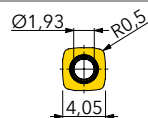
Designation Réf. de l'article	D	D1	d	LT	L1	κ	a	Rp	Z	IK	kg
15G1B010030T1R00	3,6	10	10	80	30	12	0,5	1	2	✓	0,042
15G1B012030T2R00	5,6	12	12	80	30	12	0,5	1	3	✓	0,059
15G1B016040T3R00	9,6	16	16	100	40	12	0,5	1	4	✓	0,134
15G1B020050T4R00	13,6	20	20	130	50	12	0,5	1	5	✓	0,279
15G1B025060T5R00	18,6	25	25	140	60	12	0,5	1	6	✓	0,487

Rp = Programming radius / Rp = Programmation - rayon

SDXS0402MPR-MM



SDXS0402MPR-MR1



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2505	IN2530						
SDXS0402MPR-MM	0,20/0,90	positive geometry, convex / Géométrie positive, convexe									
SDXS0402MPR-MR1	0,20/0,90	flat-top geometry, convex / Géométrie neutre, convexe									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES

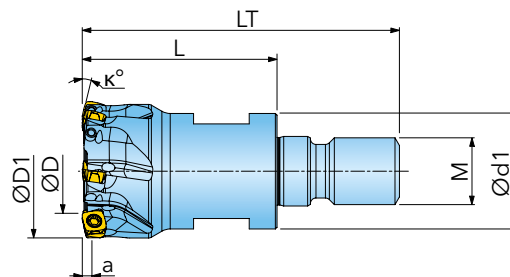


Diameter Range / Diamètres

3,6 - 5,6	SM18-033-00 (0,5Nm)	TXPLUS06x90-B
9,6 - 18,6	SM18-041-00 (0,5Nm)	TXPLUS06x90-B

① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

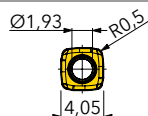
SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



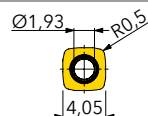
Designation Réf. de l'article	D	D1	d1	LT	L	K°	a	Rp	M	Z	IK	kg
15G1B010017X4R00	3,6	10	9,8	31,5	17	12	0,5	1	M6	2	✓	0,010
15G1B012023X4R00	5,6	12	11,8	37,5	23	12	0,5	1	M6	3	✓	0,017
15G1B016023X5R00	9,6	16	13	40,8	23	12	0,5	1	M8	4	✓	0,026
15G1B020030X6R00	13,6	20	18	49,8	30	12	0,5	1	M10	5	✓	0,060
15G1B025035X7R00	18,6	25	21	57	35	12	0,5	1	M12	6	✓	0,103

Rp = Programming radius / Rp = Programmation - rayon

SDXS0402MPR-MM



SDXS0402MPR-MR1



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2505	IN2530						
SDXS0402MPR-MM	0,20/0,90	positive geometry, convex / Géométrie positive, convexe									
SDXS0402MPR-MR1	0,20/0,90	flat-top geometry, convex / Géométrie neutre, convexe									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



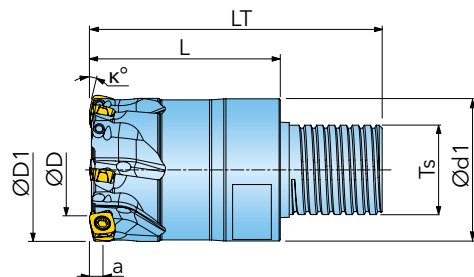
Diameter Range / Diamètres

3,6 - 5,6	SM18-033-00 (0,5Nm)	TXPLUS06x90-B
9,6 - 18,6	SM18-041-00 (0,5Nm)	TXPLUS06x90-B

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

GOLDSPEED HIGH FEED CUTTER 15G1B... FRAISE GRANDE AVANCE 15G1B...

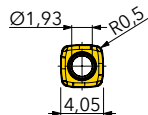
FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



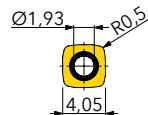
Designation Réf. de l'article	D	D1	d1	LT	L	κ	a	Rp	Ts	Z	IK	kg
15G1B010016T6R00	3,6	10	9,7	22,65	16	12	0,5	1	T6	2	✓	0,008
15G1B012017T8R00	5,6	12	11,5	25	17	12	0,5	1	T8	3	✓	0,012
15G1B016019TRR00	9,6	16	15,2	30,8	19	12	0,5	1	T10	4	✓	0,026
15G1B020022TSR00	13,6	20	18,3	35,8	22	12	0,5	1	T12	5	✓	0,048
15G1B025032TUR00	18,6	25	23,9	49,6	32	12	0,5	1	T15	6	✓	0,114

Rp = Programming radius / Rp = Programmation - rayon

SDXS0402MPR-MM



SDXS0402MPR-MR1



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2505	IN2530						
SDXS0402MPR-MM	0,20/0,90	positive geometry, convex / Géométrie positive, convexe									
SDXS0402MPR-MR1	0,20/0,90	flat-top geometry, convex / Géométrie neutre, convexe									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES

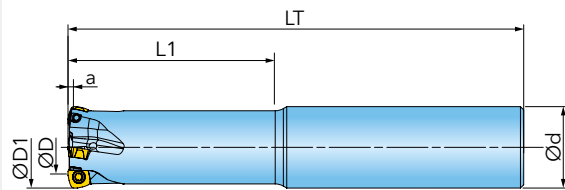


Diameter Range / Diamètres

3,6 - 5,6	SM18-033-00 (0,5Nm)	TXPLUS06x90-B
9,6 - 18,6	SM18-041-00 (0,5Nm)	TXPLUS06x90-B

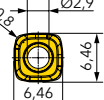
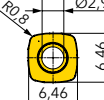
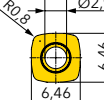
① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

ADAPTION ACC. TO DIN 1835 A
ATTACHEMENT DIN 1835 A



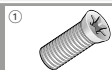
Designation Réf. de l'article	D	D1	d	LT	L1	κ	a	Rp	Z	IK	kg
15G1D016040T3R00	8	16	16	100	40	12	1	1,7	2	✓	0,06
15G1D020050T4R00	12	20	20	130	50	12	1	1,7	3	✓	0,13
15G1D025060T5R00	17	25	25	140	60	12	1	1,7	4	✓	0,35
15G1D032070U7R00	24	32	32	150	70	12	1	1,7	5	✓	0,81

Rp = Programming radius / Rp = Programmation - rayon

SDXS0603MPR-MM			SDXS0603MPR-MR			SDXS0603MPR-MR1					
											
Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2505	IN4036	IN6537					
SDXS0603MPR-MM	0,50/1,20	positive geometry, convex / Géométrie positive, convexe									
SDXS0603MPR-MR	0,50/1,20	neutral geometry convex, chamfered / Géométrie neutre convexe, renforcée									
SDXS0603MPR-MR1	0,50/1,20	flat-top geometry, convex / Géométrie neutre, convexe									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

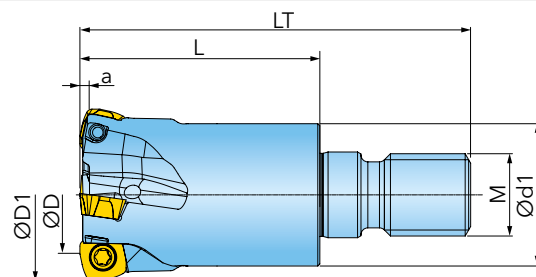


SM25-054-00 (1,1Nm) TX08x90-B

① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

GOLDSPEED HIGH FEED CUTTER 15G1D...X FRAISE GRANDE AVANCE 15G1D...X

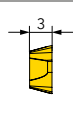
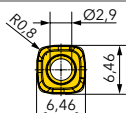
SCREW-IN TYPE ADAPTION ATTACHEMENT FILETÉ



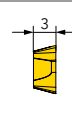
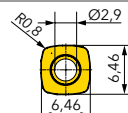
Designation Réf. de l'article	D	D1	d1	LT	L	κ	a	Rp	M	Z	IK	kg
15G1D016023X5R00	8	16	13	40,8	23	12	1	1,7	M8	2	✓	0,03
15G1D020030X6R00	12	20	18	49,8	30	12	1	1,7	M10	3	✓	0,03
15G1D025035X7R00	17	25	21	57	35	12	1	1,7	M12	4	✓	0,05
15G1D032043X8R00	24	32	29	67	43	12	1	1,7	M16	5	✓	0,13
15G1D035043X8R00	27	35	29	67	43	12	1	1,7	M16	5	✓	0,13
15G1D040043X8R00	32	40	29	67	43	12	1	1,7	M16	6	✓	0,18

Rp = Programming radius / Rp = Programmation - rayon

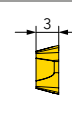
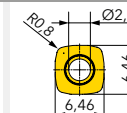
SDXS0603MPR-MM



SDXS0603MPR-MR



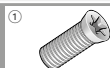
SDXS0603MPR-MR1



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2505	IN4036	IN6537					
SDXS0603MPR-MM	0,50/1,20	positive geometry, convex / Géométrie positive, convexe									
SDXS0603MPR-MR	0,50/1,20	neutral geometry convex, chamfered / Géométrie neutre convexe, renforcée									
SDXS0603MPR-MR1	0,50/1,20	flat-top geometry, convex / Géométrie neutre, convexe									

● = P ● = M ● = K ● = N ● = S ○ = H

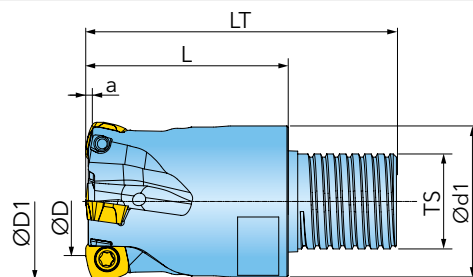
SPARE PARTS ACCESSOIRES



SM25-054-00 (1,1Nm) TX08x90-B

① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

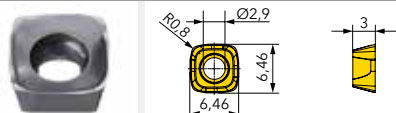
FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



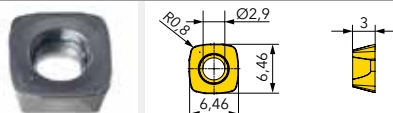
Designation Réf. de l'article	D	D1	d1	LT	L	κ	a	Rp	Ts	Z	IK	kg
15G1D016019TRR00	8	16	15,2	30,8	19	12	1	1,7	T10	2	✓	0,02
15G1D020022TSR00	12	20	18,3	35,8	22	12	1	1,7	T12	3	✓	0,02
15G1D025032TUR00	17	25	23,9	49,6	32	12	1	1,7	T15	4	✓	0,04

Rp = Programming radius / Rp = Programmation - rayon

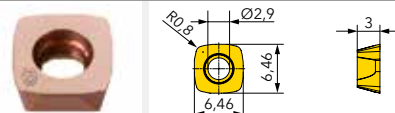
SDXS0603MPR-MM



SDXS0603MPR-MR



SDXS0603MPR-MR1



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2505	IN4036	IN6537						
SDXS0603MPR-MM	0,50/1,20	positive geometry, convex / Géométrie positive, convexe										
SDXS0603MPR-MR	0,50/1,20	neutral geometry convex, chamfered / Géométrie neutre convexe, renforcée										
SDXS0603MPR-MR1	0,50/1,20	flat-top geometry, convex / Géométrie neutre, convexe										

● = P ● = M ● = K ● = N ● = S ○ = H

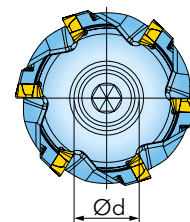
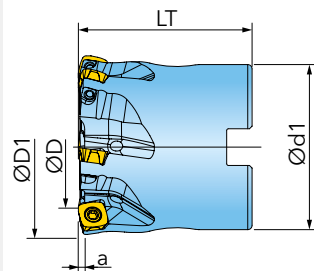
SPARE PARTS ACCESSOIRES



SM25-054-00 (1,1Nm) TX08x90-B

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

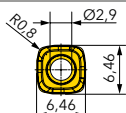
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



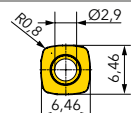
Designation Réf. de l'article	D	D1	d	d1	LT	κ	a	Rp	Z	IK	kg
5G1D040R00	32	40	16	38	40	12	1	1,7	6	✓	0,48
5G1D042R01	34	42	16	38	40	12	1	1,7	6	✓	0,52
5G1D042R00	34	42	16	38	40	12	1	1,7	7	✓	0,52
5G1D050R01	42	50	22	45	50	12	1	1,7	6	✓	1,08
5G1D050R00	42	50	22	45	50	12	1	1,7	7	✓	1,08

Rp = Programming radius / Rp = Programmation - rayon

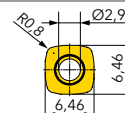
SDXS0603MPR-MM



SDXS0603MPR-MR



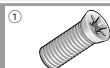
SDXS0603MPR-MR1



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2505	IN4036	IN6537					
SDXS0603MPR-MM	0,50/1,20	positive geometry, convex / Géométrie positive, convexe									
SDXS0603MPR-MR	0,50/1,20	neutral geometry convex, chamfered / Géométrie neutre convexe, renforcée									
SDXS0603MPR-MR1	0,50/1,20	flat-top geometry, convex / Géométrie neutre, convexe									

● = P ● = M ● = K ● = N ● = S ○ = H

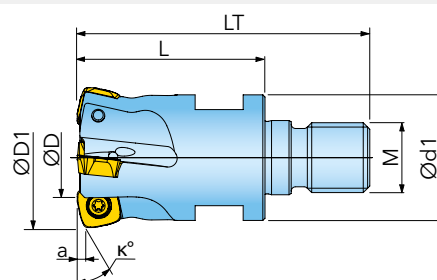
SPARE PARTS
ACCESSOIRES



SM25-054-00 (1,1Nm) TX08x90-B

① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

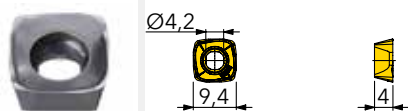
SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



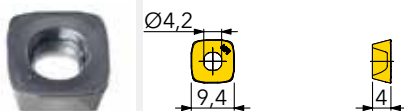
Designation Réf. de l'article	D	D1	d1	LT	L	κ	a	Rp	M	Z			
15G1F025035X7R00	12,9	25	21	57	35	12	1,5	2,5	M12	3	5,5	✓	0,09
15G1F030043X8R00	17,9	30	29	67	43	12	1,5	2,5	M16	3	3,5	✓	0,15
15G1F032043X8R00	19,9	32	29	67	43	12	1,5	2,5	M16	4	3,3	✓	0,20
15G1F035043X8R00	22,9	35	29	67	43	12	1,5	2,5	M16	4	2,6	✓	0,22
15G1F040043X8R00	27,8	40	29	67	43	12	1,5	2,5	M16	5	2,2	✓	0,24
15G1F042043X8R00	29,8	42	29	67	43	12	1,5	2,5	M16	5	2,0	✓	0,26

Rp = Programming radius / * fz-values see manual „Cutting Data for Milling & Boring Tools“ / Rp = Programmation - rayon / * Valeurs fz voir le manuel "Données de coupe de fraisage et perçage" (Chapitre G_Quad)

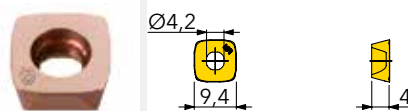
SDXS0904MPR-MM



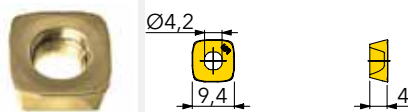
SDXS0904MPR-MR



SDXS0904MPR-MR1



SDXS0904MPR-MRH



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2504	IN2505	IN4036	IN6537	IN7035			
SDXS0904MPR-MM	0,40/1,50	positive geometry convex, chamfered / Géométrie positives convexe, renforcée									
SDXS0904MPR-MR	0,40/1,50	neutral geometry convex, chamfered / Géométrie neutre convexe, renforcée									
SDXS0904MPR-MR1	0,40/1,50	neutral geometry convex, sharp / Géométrie neutre convexe, vive									
SDXS0904MPR-MRH	0,40/1,50	neutral geometry convex, chamfered / Géométrie neutre convexe, renforcée									

● = P ● = M ● = K ● = N ● = S ○ = H

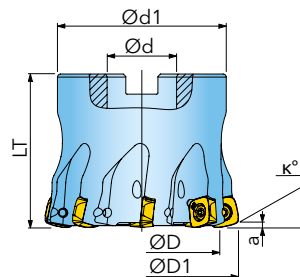
SPARE PARTS
ACCESSOIRES



SM30-075-R0 (2,0Nm) TX09x90-B

① = Insert screw / Vis de serrage plaqueette ② = Torx-Bit / Embout torx

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	D1	d	d1	LT	κ	a	Rp	Z		IK	kg
5G6F040R00	27,8	40	16	38	40	12	1,5	2,5	4	2,2	✓	0,24
5G5F040R00 ¹⁾	27,8	40	16	38	40	12	1,5	2,5	5	2,2	✓	0,24
5G6F042R00	29,8	42	16	38	40	12	1,5	2,5	4	2,0	✓	0,27
5G5F042R00 ¹⁾	29,8	42	16	38	40	12	1,5	2,5	5	2,0	✓	0,27
5G6F050R00	37,8	50	22	45	50	12	1,5	2,5	6	1,5	✓	0,43
5G5F050R00 ¹⁾	37,8	50	22	45	50	12	1,5	2,5	7	1,5	✓	0,43
5G6F052R00	39,8	52	22	40	50	12	1,5	2,5	6	1,3	✓	0,46
5G5F052R00 ¹⁾	39,8	52	22	40	50	12	1,5	2,5	7	1,3	✓	0,46
5G6F063R00	50,8	63	22	55	50	12	1,5	2,5	7	1,1	✓	0,75
5G5F063R00 ¹⁾	50,8	63	22	55	50	12	1,5	2,5	8	1,1	✓	0,75
5G6F066R00	53,8	66	27	50	50	12	1,5	2,5	7	1,0	✓	0,80
5G5F066R00 ¹⁾	53,8	66	27	50	50	12	1,5	2,5	8	1,0	✓	0,80
5G6F080R00	67,8	80	27	70	50	12	1,5	2,5	7	0,6	✓	1,20
5G5F080R00 ¹⁾	67,8	80	27	70	50	12	1,5	2,5	9	0,6	✓	1,20
5G6F085R00	72,8	85	27	70	50	12	1,5	2,5	8	0,4	✓	1,27
5G5F085R00 ¹⁾	72,8	85	27	70	50	12	1,5	2,5	10	0,4	✓	1,27

Rp = Programming radius / * fz-values see manual „Cutting Data for Milling & Boring Tools“ / Rp = Programmation - rayon / * Valeurs fz voir le manuel "Données de coupe de fraisage et perçage" (Chapitre G_Quad)

¹⁾Narrow spacing / Pas réduit

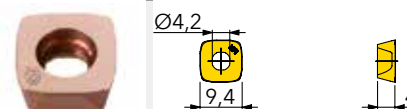
SDXS0904MPR-MM



SDXS0904MPR-MR



SDXS0904MPR-MR1



SDXS0904MPR-MRH



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2504	IN2505	IN4036	IN6537	IN7035			
SDXS0904MPR-MM	0,40/1,50	positive geometry convex, chamfered / Géométrie positives convexe, renforcée									
SDXS0904MPR-MR	0,40/1,50	neutral geometry convex, chamfered / Géométrie neutre convexe, renforcée									
SDXS0904MPR-MR1	0,40/1,50	neutral geometry convex, sharp / Géométrie neutre convexe, vive									
SDXS0904MPR-MRH	0,40/1,50	neutral geometry convex, chamfered / Géométrie neutre convexe, renforcée									

● = P ● = M ● = K ● = N ● = S ○ = H

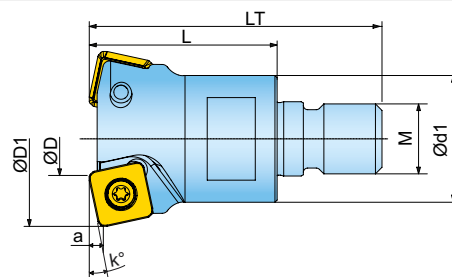
SPARE PARTS
ACCESSOIRES



SM30-075-R0 (2,0Nm) TX09x90-B

① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

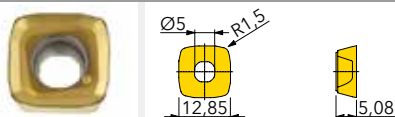
SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



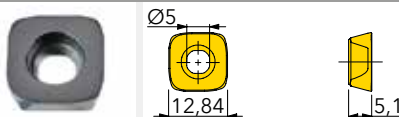
Designation Réf. de l'article	D	D1	d1	LT	L	κ	a	M	Z			
15M1P032043X8R00	11	32	29	67	43	12	2	M16	2	10	✓	0,17
15M1P035043X8R00	14	35	29	67	43	12	2	M16	2	8	✓	0,17
15M1P040043X8R00	19	40	29	67	43	12	2	M16	3	5	✓	0,19
15M1P042043X8R00	21	42	29	67	43	12	2	M16	3	5	✓	0,20
15M1P032043X8R01	11	32	29	67	43	12	2	M16	2	10	✓	0,17
15M1P035043X8R01	14	35	29	67	43	12	2	M16	2	8	✓	0,17
15M1P042043X8R01	21	42	29	67	43	12	2	M16	3	5	✓	0,20

* fz-values see manual „Cutting Data for Milling & Boring Tools“ / * Valeurs fz voir le manuel "Données de coupe de fraisage et perçage" (Chapitre G_Quad)

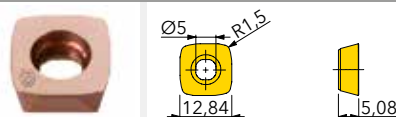
SDXS1305MPR-MM



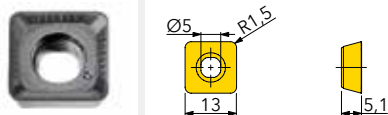
SDXS1305MPR-MR



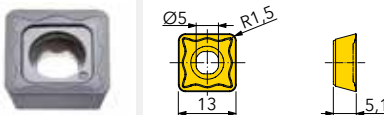
SDXS1305MPR-MR1



SDXS130515R-PH



SDXS130515N-HR



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2504	IN2505	IN4005	IN4030	IN4035	IN4036	IN6537
SDXS1305MPR-MM	0,50/1,80	positive geometry, convex, landed / Géométrie positive convexe, renforcée								
SDXS1305MPR-MR	0,50/1,80	neutral geometry convex, chamfered / Géométrie neutre convexe, renforcée								
SDXS1305MPR-MR1	0,80/1,80	neutral geometry convex, chamfered, sharp								
SDXS130515R-PH	0,50/1,80	positive geometry, chamfered R1,5 / Géométrie positive, renforcée R1,5								
SDXS130515N-HR	0,50/1,80	positive titanium geometry R1,5, K-land / Géométrie positive R1,5 pour le titane								

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

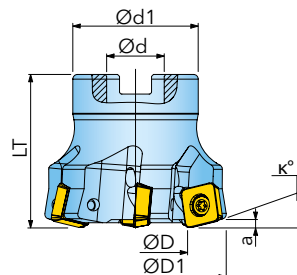


SM40-100-R0 (4,5Nm)

TX15x90-B

① = Insert screw / Vis de serrage plaqueette ② = Torx-Bit / Embout torx

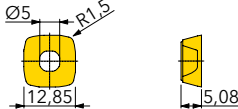
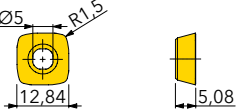
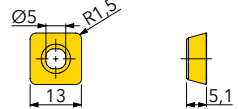
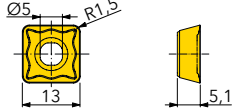
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	D1	d	d1	LT	κ	a	Z			
5M6P050R00	29	50	22	45	50	12	2	4	3,5	✓	0,34
5M5P050R00 ¹⁾	29	50	22	45	50	12	2	5	3,5	✓	0,33
5M5P050R01	29	50	22	45	50	12	2	6	3,5	✓	0,32
5M6P052R00	31	52	22	40	50	12	2	4	3	✓	0,29
5M5P052R00 ¹⁾	31	52	22	40	50	12	2	5	3	✓	0,28
5M6P063R00	42	63	22	55	50	12	2	5	2,5	✓	0,57
5M5P063R00 ¹⁾	42	63	22	55	50	12	2	6	2,5	✓	0,60
5M5P063R01 ¹⁾	42	63	22	55	50	12	2	7	2,5	✓	0,60
5M6P066R00	45	66	27	48	50	12	2	5	2	✓	0,48
5M5P066R00 ¹⁾	45	66	27	48	50	12	2	6	2	✓	0,50
5M6P080R00	59	80	27	70	50	12	2	6	1	✓	0,97
5M5P080R00 ¹⁾	59	80	27	70	50	12	2	8	1	✓	1,01
5M6P100R00	79	100	32	85	55	12	2	7	0,5	✓	1,75
5M5P100R00 ¹⁾	79	100	32	85	55	12	2	9	0,5	✓	1,74
5M5P052R01 ²⁾	31	52	22	40	50	12	2	5	3	✓	0,28
5M5P066R01 ²⁾	45	66	27	48	50	12	2	6	2	✓	0,50
5M5P080R01 ²⁾	59	80	27	70	50	12	2	8	1	✓	1,01
5M5P100R01 ²⁾	79	100	32	85	55	12	2	9	0,5	✓	1,74
5M5P052R80 ¹⁾	31	52	22	40	50	8	1,6	5	3	✓	0,28
5M5P066R80 ¹⁾	45	66	27	48	50	8	1,6	6	2	✓	0,50
5M5P080R80 ¹⁾	59	80	27	70	50	8	1,6	8	1	✓	1,01
5M5P100R80 ¹⁾	79	100	32	85	55	8	1,6	9	0,5	✓	1,74

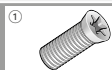
* fz-values see manual „Cutting Data for Milling & Boring Tools“ / * Valeurs fz voir le manuel "Données de coupe de fraisage et perçage" (Chapitre G_Quad)

¹⁾ Narrow spacing / Pas réduit; ²⁾ for * MPR-Insert geometry is effective diameter (D) / Le diamètre (D) est valable uniquement avec la géométrie MPR

SDXS1305MPR-MM			SDXS1305MPR-MR			SDXS1305MPR-MR1				
										
SDXS130515R-PH			SDXS130515N-HR							
										
Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2504	IN2505	IN4005	IN4030	IN4035	IN4036	IN6537
SDXS1305MPR-MM	0,50/1,80	positive geometry, convex, landed / Géométrie positive convexe, renforcée								
SDXS1305MPR-MR	0,50/1,80	neutral geometry convex, chamfered / Géométrie neutre convexe, renforcée								
SDXS1305MPR-MR1	0,80/1,80	neutral geometry convex, chamfered, sharp								
SDXS130515R-PH	0,50/1,80	positive geometry, chamfered R1,5 / Géométrie positive, renforcée R1,5								
SDXS130515N-HR	0,50/1,80	positive titanium geometry R1,5, K-land / Géométrie positive R1,5 pour le titane								

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES

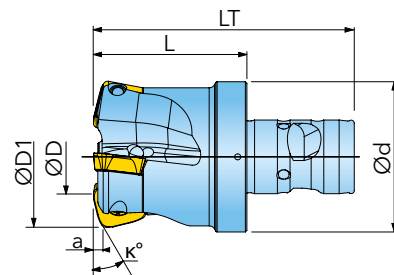


SM40-100-R0 (4,5Nm)

TX15x90-B

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

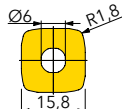
MODULAR MILLING ADAPTOR INNOFIT
ATTACHEMENT MODULAIRE INNOFIT



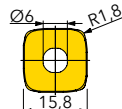
Designation Réf. de l'article	D	D1	d	LT	L	κ	a	Rp	MOD	Z			
15G1Q050050Z4R00	28,2	50	49	85	50	12	2,5	4,2	MOD 40	3	5.2	✓	0,55
15G1Q050050Z4R01	28,2	50	49	85	50	12	2,5	4,2	MOD 40	4	5.2	✓	0,54
15G1Q052050Z4R00	30,2	52	49	85	50	12	2,5	4,2	MOD 40	3	4.9	✓	0,59
15G1Q052050Z4R01	30,2	52	49	85	50	12	2,5	4,2	MOD 40	4	4.9	✓	0,57

Rp = Programming radius / Rp = Programmation - rayon

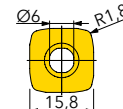
SDXS1605MPR-MM



SDXS1605MPR-MR



SDXS1605MPR-MR1



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2505	IN4036	IN6537	IN7035				
SDXS1605MPR-MM	0,70/2,00	positive geometry convex, chamfered / Géométrie positives convexe, renforcée									
SDXS1605MPR-MR	0,70/2,00	neutral geometry convex, chamfered / Géométrie neutre convexe, renforcée									
SDXS1605MPR-MR1	0,70/2,00	neutral geometry convex, sharp / Géométrie neutre convexe, vive									

● = P ● = M ● = K ● = N ● = S ○ = H

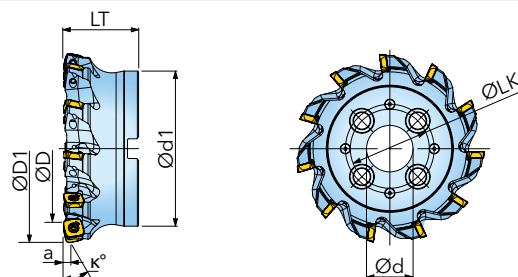
SPARE PARTS
ACCESSOIRES



SM50-130-R0 (6,0Nm) TX20x90-B

① = Insert screw / Vis de serrage plaqueette ② = Torx-Bit / Embout torx

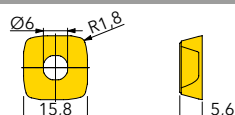
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



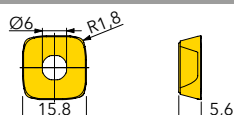
Designation Réf. de l'article	D	D1	d	d1	LT	LK	κ	a	Rp	Z			kg
5G6Q063R00	41,2	63	22	55	50	-	12	2,5	4,2	4	3.4	✓	0,68
5G5Q063R00	41,2	63	22	55	50	-	12	2,5	4,2	5	3.4	✓	0,69
5G6Q066R00	44,2	66	27	50	50	-	12	2,5	4,2	5	3.1	✓	0,63
5G5Q066R00	44,2	66	27	50	50	-	12	2,5	4,2	6	3.1	✓	0,63
5G6Q080R00	58,2	80	27	70	50	-	12	2,5	4,2	6	2.3	✓	1,17
5G5Q080R00	58,2	80	27	70	50	-	12	2,5	4,2	7	2.3	✓	1,17
5G6Q085R00	63,2	85	27	70	50	-	12	2,5	4,2	7	2.1	✓	1,28
5G5Q085R00	63,2	85	27	70	50	-	12	2,5	4,2	8	2.1	✓	1,28
5G6Q100R00	78,2	100	32	85	55	-	12	2,5	4,2	8	1.65	✓	2,08
5G5Q100R00	78,2	100	32	85	55	-	12	2,5	4,2	9	1.65	✓	2,08
5G6Q125R00	103,2	125	40	100	63	-	12	2,5	4,2	10	1.2	✓	3,50
5G5Q125R00	103,2	125	40	100	63	-	12	2,5	4,2	11	1.2	✓	3,50
5G6Q160R00	138,2	160	40	130	63	66,7	12	2,5	4,2	11	0.7	✓	5,43
5G5Q160R00	138,2	160	40	130	63	66,7	12	2,5	4,2	12	0.7	✓	5,46

Rp = Programming radius / Rp = Programmation - rayon

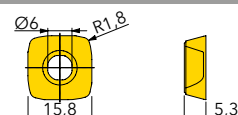
SDXS1605MPR-MM



SDXS1605MPR-MR



SDXS1605MPR-MR1



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2505	IN4036	IN6537	IN7035				
SDXS1605MPR-MM	0,70/2,00	positive geometry convex, chamfered / Géométrie positives convexe, renforcée									
SDXS1605MPR-MR	0,70/2,00	neutral geometry convex, chamfered / Géométrie neutre convexe, renforcée									
SDXS1605MPR-MR1	0,70/2,00	neutral geometry convex, sharp / Géométrie neutre convexe, vive									

● = P ● = M ● = K ● = N ● = S ○ = H

**SPARE PARTS
ACCESSOIRES**

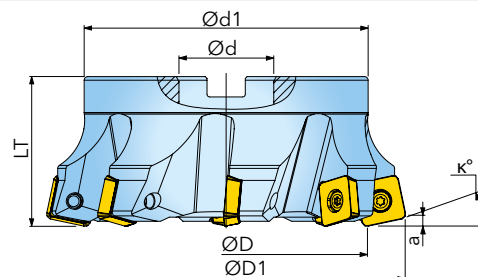


SM50-130-R0 (6,0Nm)

TX20x90-B

① = Insert screw / Vis de serrage plaqueette ② = Torx-Bit / Embout torx

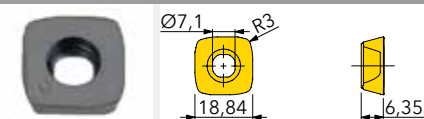
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



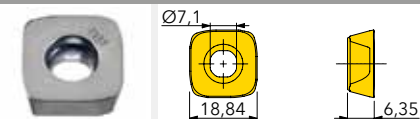
Designation Réf. de l'article	D	D1	d	d1	LT	LK	κ	a	Z			
5G6M080R00	48,6	80	27	70	55	-	12	3	5	3,5	✓	1,01
5G5M080R00 ¹⁾	48,6	80	27	70	55	-	12	3	6	3,5	✓	1,02
5G6M100R00	68,6	100	32	85	55	-	12	3	6	2,5	✓	1,63
5G5M100R00 ¹⁾	68,6	100	32	85	55	-	12	3	8	2,5	✓	1,62
5G6M125R00	93,6	125	40	100	63	-	12	3	7	1,5	✓	2,84
5G5M125R00 ¹⁾	93,6	125	40	100	63	-	12	3	9	1,5	✓	2,87
5G6M160R00	128,6	160	40	130	63	66,7	12	3	8	1	✓	4,80
5G5M160R00 ¹⁾	128,6	160	40	130	63	66,7	12	3	10	1	✓	4,82
5G5M080R01 ¹⁾	48,6	80	27	70	55	-	12	3	6	3,5	✓	1,02
5G5M100R01 ¹⁾	68,6	100	32	85	55	-	12	3	8	2,5	✓	1,62
5G5M125R01 ¹⁾	93,6	125	40	100	63	-	12	3	9	1,5	✓	2,87
5G5M160R01 ¹⁾	128,6	160	40	130	63	66,7	12	3	10	1,0	✓	4,82

¹⁾Narrow spacing / Pas réduit

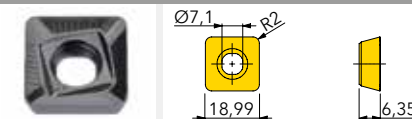
SDES1906MPR-MR1



SDXS1906MPR-MR



SDMS190620R-PH



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2505	IN4005	IN4030	IN4036	IN6537			
SDES1906MPR-MR1	0,50/3,00	neutral geometry convex, sharp / Géométrie neutre convexe, vive									
SDXS1906MPR-MR	0,50/3,00	neutral geometry convex, chamfered / Géométrie neutre convexe, renforcée									
SDMS190620R-PH	0,50/3,00	positive geometry, chamfered R2 / Géométrie positive, renforcée R2									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

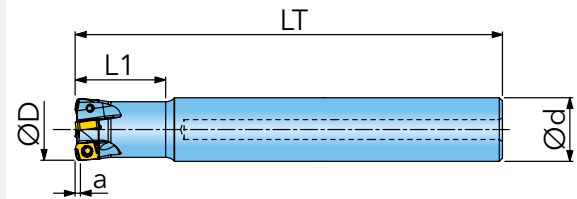


SM60-135-R0 (8,0Nm)

DS-T25S

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 1835 A
ATTACHEMENT DIN 1835 A



Designation Réf. de l'article	D	d	LT	L1	a	Rp	Z		IK	kg
1TG1B010020T1R00	10	10	100	20	0,5	0,9	2	0,6	✓	0,05
1TG1B012020T2R00	12	12	110	20	0,5	0,9	3	1,0	✓	0,08
1TG1B016025T3R00	16	16	150	25	0,5	0,9	4	1,0	✓	0,20
1TG1B020025T4R00	20	20	200	25	0,5	0,9	5	1,0	✓	0,44

Rp = Programming radius / Rp = Programmation - rayon

UNLU0402M0TR			UNLU0402M0TR-ML					
Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2504	IN2505	IN6537		
UNLU0402M0TR	0,20/0,70	semi positive geometry / Géométrie semi-positive						
UNLU0402M0TR-ML	0,20/0,70	positive geometry / Géométrie positive						

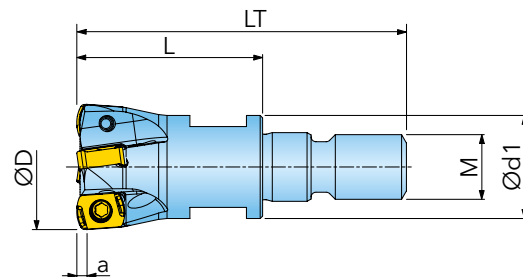
● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES	①	②
	SM18-041-00 (0,5Nm)	TXPLUS06x90-B

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

DIPOSEED HIGH FEED CUTTER 1TG1B...X FRAISE GRANDE AVANCE 1TG1B...X

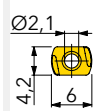
SCREW-IN TYPE ADAPTION ATTACHEMENT FILETÉ



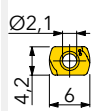
Designation Réf. de l'article	D	d1	LT	L	a	Rp	M	Z		IK	kg
1TG1B010017X4R00	10	9,7	31,5	17	0,5	0,9	M6	2	0,6	✓	0,01
1TG1B012017X4R00	12	11	31,5	17	0,5	0,9	M6	3	1,0	✓	0,01
1TG1B016023X5R00	16	13	40,8	23	0,5	0,9	M8	4	1,0	✓	0,03
1TG1B020023X6R00	20	18	42,8	23	0,5	0,9	M10	5	1,0	✓	0,05
1TG1B025027X7R00	25	21	49	27	0,5	0,9	M12	7	0,7	✓	0,09
1TG1B032027X8R00	32	29	51	27	0,5	0,9	M16	8	0,6	✓	0,15

Rp = Programming radius / Rp = Programmation - rayon

UNLU0402M0TR



UNLU0402M0TR-ML



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2504	IN2505	IN6537						
UNLU0402M0TR	0,20/0,70	semi positive geometry / Géométrie semi-positive										
UNLU0402M0TR-ML	0,20/0,70	positive geometry / Géométrie positive										

● = P ● = M ● = K ● = N ● = S ○ = H

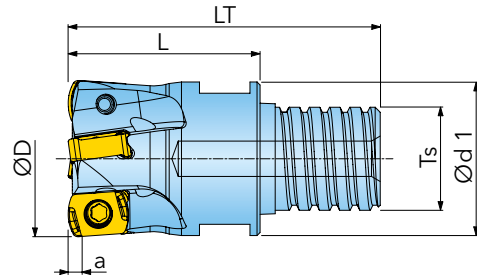
SPARE PARTS ACCESSOIRES



SM18-041-00 (0,5Nm) TXPLUS06x90-B

① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

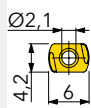
FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



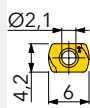
Designation Réf. de l'article	D	d1	LT	L	a	Rp	Ts	Z		IK	kg
1TG1B010016T6R00	10	9,7	22,65	16	0,5	0,9	T6	2	0,6	✓	0,01
1TG1B012017T8R00	12	11,5	25,0	17	0,5	0,9	T8	3	1,0	✓	0,01
1TG1B016019T10R00	16	15,2	30,8	19	0,5	0,9	T10	4	1,0	✓	0,03
1TG1B020022T12R00	20	18,3	35,8	22	0,5	0,9	T12	5	1,0	✓	0,05
1TG1B025032T15R00	25	23,9	49,6	32	0,5	0,9	T15	7	0,7	✓	0,10

Rp = Programming radius / Rp = Rayon de programmation

UNLU0402M0TR



UNLU0402M0TR-ML



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2504	IN2505	IN6537					
UNLU0402M0TR	0,20/0,70	semi positive geometry / Géométrie semi-positive									
UNLU0402M0TR-ML	0,20/0,70	positive geometry / Géométrie positive									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES

①



②



③



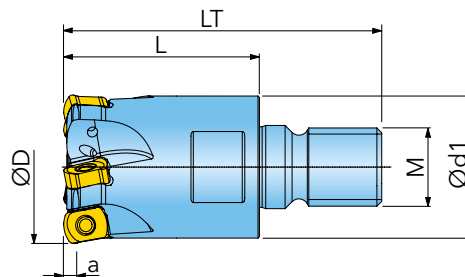
Special thread / Filetage Spécial

T6	SM18-041-00 (0,5Nm)	TXPLUS06x90-B	WS-0029 (10,0Nm)
T8	SM18-041-00 (0,5Nm)	TXPLUS06x90-B	WS-0030 (15,0Nm)
T10	SM18-041-00 (0,5Nm)	TXPLUS06x90-B	WS-0044 (28,0Nm)
T12	SM18-041-00 (0,5Nm)	TXPLUS06x90-B	WS-0059 (28,0Nm)
T15	SM18-041-00 (0,5Nm)	TXPLUS06x90-B	WS-0061 (28,0Nm)

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx ③ = Wrench / Clé de serrage

DIPOSEFEED HIGH FEED CUTTER 1TG1F...X FRAISE GRANDE AVANCE 1TG1F...X

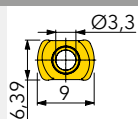
SCREW-IN TYPE ADAPTION ATTACHEMENT FILETÉ



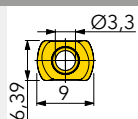
Designation Réf. de l'article	D	d1	LT	L	a	Rp	M	Z		IK	kg
1TG1F016025X5R00	16	13	42,8	25	1	1,6	M8	2	2	✓	0,03
1TG1F020030X6R00	20	18	49,8	30	1	1,9	M10	3	1,8	✓	0,05
1TG1F025035X7R00	25	21	57	35	1	1,9	M12	4	1,3	✓	0,09
1TG1F030043X8R00	30	29	67	43	1	1,9	M16	5	1	✓	0,21
1TG1F032040X8R00	32	29	64	40	1	1,9	M16	5	1	✓	0,21
1TG1F032040X8R01	32	29	64	40	1	1,9	M16	6	1	✓	0,21
1TG1F035043X8R00	35	29	67	43	1	1,9	M16	5	0,8	✓	0,24
1TG1F035043X8R01	35	29	67	43	1	1,9	M16	4	0,8	✓	0,24
1TG1F042043X8R00	42	29	67	43	1	1,9	M16	6	0,7	✓	0,28
1TG1F042043X8R01	42	29	67	43	1	1,9	M16	5	0,7	✓	0,28

Rp = Programming radius / Rp = Programmation - rayon

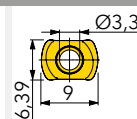
UNLU0603M0TR



UNLU0603M0TR-MM



UNLU0603M0TR-ML



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2036	IN2504	IN2505	IN6537				
UNLU0603M0TR	0,50/1,20	semi positive geometry / Géométrie semi-positive		●		●	●				
UNLU0603M0TR-MM	0,50/1,00	positive geometry / Géométrie positive		●	●	●					
UNLU0603M0TR-ML	0,50/1,00	Inconel - Titan geometry / Géométrie Inconel - Titane		●		●					

● = P ● = M ● = K ● = N ● = S ○ = H

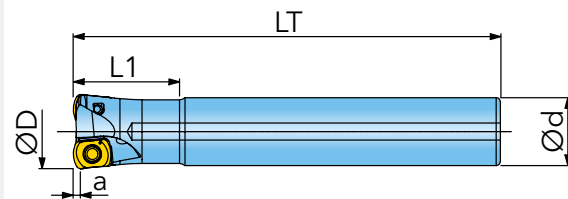
SPARE PARTS ACCESSOIRES



SM25-064-00 (1,1Nm) TX08x90-B

① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

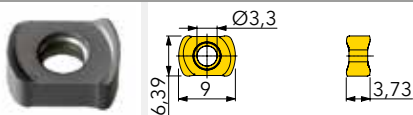
ADAPTION ACC. TO DIN 1835 A
ATTACHEMENT DIN 1835 A



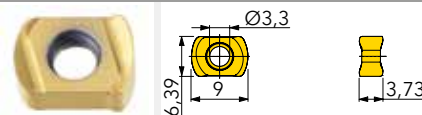
Designation Réf. de l'article	D	d	LT	L1	a	Rp	Z		IK	kg
1TG1F016030T3R00	16	16	100	30	1	1,6	2	2	✓	0,14
1TG1F020050T4R00	20	20	130	50	1	1,9	3	1,8	✓	0,26
1TG1F025060T5R00	25	25	140	60	1	1,9	4	1,3	✓	0,44
1TG1F030070U7R00	30	32	150	70	1	1,9	5	1	✓	0,76
1TG1F032070U7R01	32	32	150	70	1	1,9	6	1	✓	0,81
1TG1F032070U7R00	32	32	150	70	1	1,9	5	1	✓	0,81
1TG1F040090U7R00	40	32	150	40	1	1,9	6	0,8	✓	0,96

Rp = Programming radius / Rp = Programmation - rayon

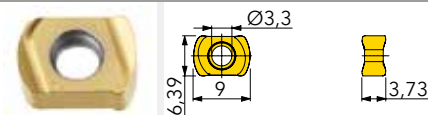
UNLU0603MOTR



UNLU0603MOTR-MM



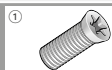
UNLU0603MOTR-ML



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2036	IN2504	IN2505	IN6537				
UNLU0603MOTR	0,50/1,20	semi positive geometry / Géométrie semi-positive		●		●	●				
UNLU0603MOTR-MM	0,50/1,00	positive geometry / Géométrie positive		●	●	●	●				
UNLU0603MOTR-ML	0,50/1,00	Inconel - Titan geometry / Géométrie Inconel - Titane		●		●	●				

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



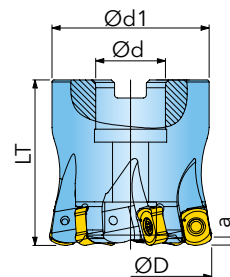
SM25-064-00 (1,1Nm) TX08x90-B

① = Insert screw / Vis de serrage plaquelette ② = Torx-Bit / Embout torx

DIPOSEED HIGH FEED CUTTER TG1F

FRAISE GRANDE AVANCE TG1F

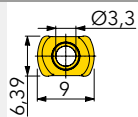
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



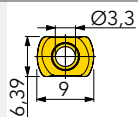
Designation Réf. de l'article	D	d	d1	LT	a	Rp	Z		IK	kg
TG1F032R00	32	16	30	40	1	1,9	5	1	✓	0,12
TG1F032R01	32	16	30	40	1	1,9	6	1	✓	0,11
TG1F040R00	40	22	38	40	1	1,9	6	0,8	✓	0,19
TG1F042R00	42	22	38	40	1	1,9	6	0,7	✓	0,25
TG1F042R10	42	16	38	40	1	1,9	6	0,7	✓	0,28
TG1F050R00	50	22	45	50	1	1,9	7	0,6	✓	0,39
TG1F052R00	52	22	40	50	1	1,9	7	0,6	✓	0,37
TG1F063R00	63	22	48	50	1	1,9	8	0,5	✓	0,67
TG1F066R00	66	27	58	50	1	1,9	8	0,5	✓	0,69
TG1F080R00	80	27	60	50	1	1,9	9	0,4	✓	1,35
TG1F085R00	85	27	70	50	1	1,9	9	0,4	✓	1,40

Rp = Programming radius / Rp = Rayon de programmation

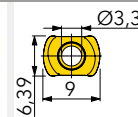
UNLU0603MOTR



UNLU0603MOTR-MM



UNLU0603MOTR-ML



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2036	IN2504	IN2505	IN6537				
UNLU0603MOTR	0,50/1,20	semi positive geometry / Géométrie semi-positive									
UNLU0603MOTR-MM	0,50/1,00	positive geometry / Géométrie positive									
UNLU0603MOTR-ML	0,50/1,00	Inconel - Titan geometry / Géométrie Inconel - Titane									

● = P ● = M ● = K ● = N ● = S ○ = H

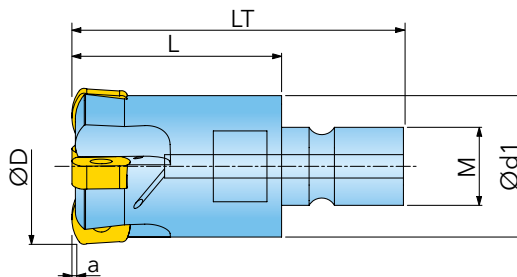
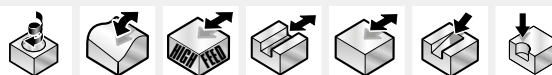
SPARE PARTS
ACCESSOIRES



SM25-064-00 (1,1Nm) TX08x90-B

① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

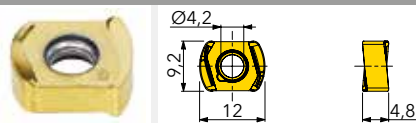
SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



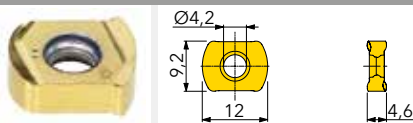
Designation Réf. de l'article	D	d1	LT	L	a	Rp	M	Z		IK	kg
1TG1G025035X7R00	25	21,0	57	35	1,5	2,5	M12	2	3	✓	0,22
1TG1G025035X7R01	25	21,0	57	35	1,5	2,5	M12	3	3	✓	0,10
1TG1G032043X8R00	32	29,0	67	43	1,5	2,5	M16	3	2	✓	0,22
1TG1G032043X8R01	32	29,0	67	43	1,5	2,5	M16	4	2	✓	0,22
1TG1G035043X8R01	35	29,0	67	43	1,5	2,5	M16	3	1,5	✓	0,23
1TG1G035043X8R00	35	29,0	67	43	1,5	2,5	M16	4	1,5	✓	0,24
1TG1G040043X8R01	40	29,0	67	43	1,5	2,5	M16	4	1,3	✓	0,27
1TG1G040043X8R00	40	29,0	67	43	1,5	2,5	M16	5	1,3	✓	0,28
1TG1G042043X8R00	42	29,0	67	43	1,5	2,5	M16	5	1,1	✓	0,30

Rp = Programming radius / Rp = Programmation - rayon

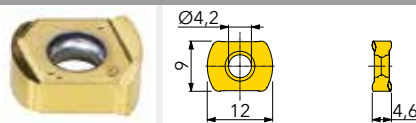
UNLU0904M0TR



UNLU0904M0TR-MM



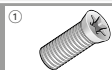
UNLU0904M0TR-ML



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2036	IN2504	IN2505	IN6537				
UNLU0904M0TR	0,40/1,50	semi positive geometry / Géométrie semi-positive		●	●	●	●				
UNLU0904M0TR-MM	0,40/1,50	positive geometry / Géométrie positive		●		●	●				
UNLU0904M0TR-ML	0,40/1,50	Inconel - Titan geometry / Géométrie Inconel - Titane		●		●	●				

● = P ● = M ● = K ● = N ● = S ○ = H

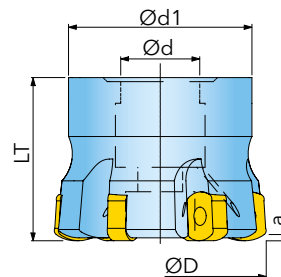
SPARE PARTS
ACCESSOIRES



SM35-088-10 (3,0Nm) TX10x90-B

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

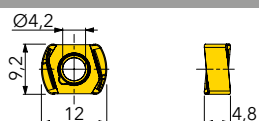
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



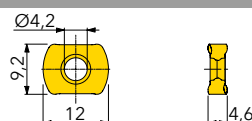
Designation Réf. de l'article	D	d	d1	LT	a	Rp	Z		IK	kg
TG2G050R00	50	22,0	45,0	50	1,5	2,5	6	1	✓	0,41
TG1G050R00	50	22,0	45,0	50	1,5	2,5	7	1	✓	0,42
TG2G052R00	52	22,0	45,0	40	1,5	2,5	6	1	✓	0,35
TG1G052R00	52	22,0	45,0	40	1,5	2,5	7	1	✓	0,36
TG2G063R00	63	22,0	47,0	50	1,5	2,5	6	0,8	✓	0,63
TG1G063R00	63	22,0	47,0	50	1,5	2,5	8	0,8	✓	0,62
TG2G066R00	66	27,0	58,0	50	1,5	2,5	5	0,8	✓	1,60
TG1G066R00	66	27,0	58,0	50	1,5	2,5	8	0,8	✓	0,78
TG2G080R00	80	27,0	70,0	50	1,5	2,5	8	0,8	✓	1,18
TG1G080R00	80	27,0	70,0	50	1,5	2,5	10	0,8	✓	1,20

Rp = Programming radius / Rp = Programmation - rayon

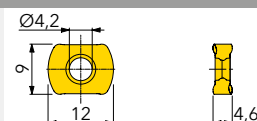
UNLU0904MOTR



UNLU0904MOTR-MM



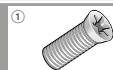
UNLU0904MOTR-ML



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2036	IN2504	IN2505	IN6537				
UNLU0904MOTR	0,40/1,50	semi positive geometry / Géométrie semi-positive									
UNLU0904MOTR-MM	0,40/1,50	positive geometry / Géométrie positive									
UNLU0904MOTR-ML	0,40/1,50	Inconel - Titan geometry / Géométrie Inconel - Titane									

● = P ● = M ● = K ● = N ● = S ○ = H

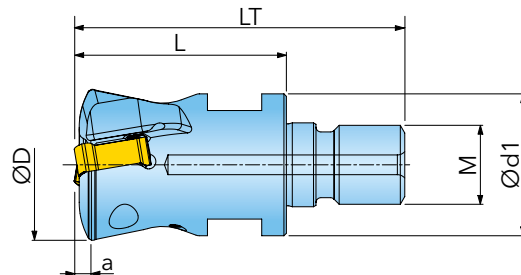
SPARE PARTS
ACCESSOIRES



SM35-088-10 (3,0Nm) TX10x90-B

① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

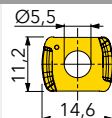
SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



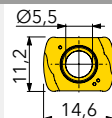
Designation Réf. de l'article	D	d1	LT	L	a	Rp	M	Z			
1TG1J030043X8R00	30	29	67	43	2	3,0	M16	2	0,5	✓	0,18
1TG1J032043X8R00	32	29	67	43	2	3,0	M16	2	0,5	✓	0,19
1TG1J035043X8R00	35	29	67	43	2	3,0	M16	3	0,5	✓	0,19
1TG1J040043X8R00	40	29	67	43	2	3,0	M16	3	0,5	✓	0,21
1TG1J042043X8R00	42	29	67	43	2	3,0	M16	3	0,5	✓	0,22

Rp = Programming radius / Rp = Programmation - rayon

UNLU1105M0TR



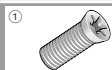
UNLU1105M0TR-ML



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2504	IN2505	IN6537					
UNLU1105M0TR	0,50/2,00	semi positive geometry / Géométrie semi-positive									
UNLU1105M0TR-ML	0,50/2,00	positive geometry / Géométrie positive									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



TS 50A1211/HG (6Nm)

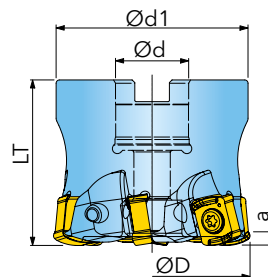
TX10x90-B

① = Insert screw / Vis de serrage plaqueette ② = Torx-Bit / Embout torx

DIPOSFEED HIGH FEED CUTTER TG_J

FRAISE GRANDE AVANCE TG_J

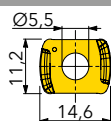
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



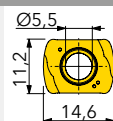
Designation Réf. de l'article	D	d	d1	LT	a	Rp	Z		IK	kg
TG2J050R00	50	22	45	40	2	3,0	4	0,50	✓	0,30
TG1J050R00	50	22	45	40	2	3,0	5	0,50	✓	0,30
TG1J052R00	52	22	45	40	2	3,0	5	0,45	✓	0,30
TG2J063R00	63	22	58	50	2	3,0	5	0,45	✓	0,70
TG1J063R00	63	22	58	50	2	3,0	6	0,45	✓	0,70
TG1J066R00	66	22	58	50	2	3,0	6	0,40	✓	0,80
TG1J066R01	66	27	58	50	2	3,0	6	0,40	✓	0,75
TG2J080R00	80	27	70	60	2	3,0	6	0,35	✓	1,40
TG1J080R00	80	27	70	60	2	3,0	7	0,35	✓	1,40
TG2J100R00	100	32	85	60	2	3,0	6	0,30	✓	2,20
TG1J100R00	100	32	85	60	2	3,0	7	0,30	✓	2,20

Rp = Programming radius / Rp = Programmation - rayon

UNLU1105M0TR



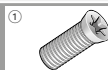
UNLU1105M0TR-ML



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2504	IN2505	IN6537					
UNLU1105M0TR	0,50/2,00	semi positive geometry / Géométrie semi-positive									
UNLU1105M0TR-ML	0,50/2,00	positive geometry / Géométrie positive									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



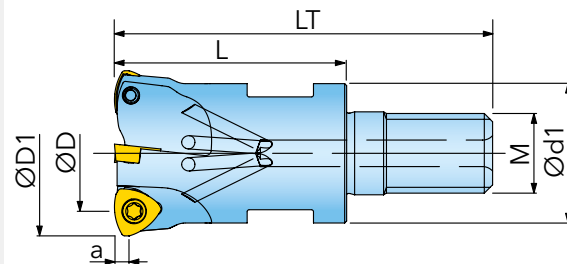
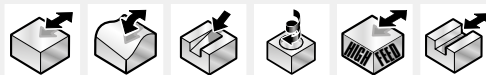
TS 50A1211/HG (6Nm)

TX10x90-B

① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

POWERFEED^{MINI} HIGH FEED CUTTER 15G4D...X
FRAISE GRANDE AVANCE 15G4D...X

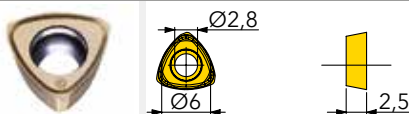
SCREW-IN TYPE ADAPTION
 ATTACHEMENT FILETÉ



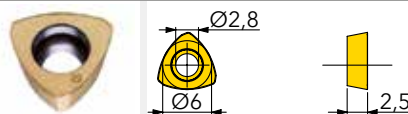
Designation Réf. de l'article	D	D1	d1	LT	L	a	Rp	M	Z			
15G4D016025X5R00	7,4	16	13	42,8	25	0,8	2	M8	2	14,4	✓	0,02
15G4D020030X6R00	11,4	20	18	49,8	30	0,8	2	M10	3	5,9	✓	0,05
15G4D025035X7R02	16,4	25	21	57	35	0,8	2	M12	2	5,3	✓	0,10
15G4D025035X7R01	16,4	25	21	57	35	0,8	2	M12	3	5,3	✓	0,09
15G4D025035X7R00	16,4	25	21	57	35	0,8	2	M12	4	5,3	✓	0,09
15G4D030043X8R00	21,4	30	29	67	43	0,8	2	M16	5	3,5	✓	0,20
15G4D032043X8R00	23,4	32	29	67	43	0,8	2	M16	5	3,1	✓	0,22
15G4D035043X8R00	26,4	35	29	67	43	0,8	2	M16	6	2,2	✓	0,23
15G4D040043X8R00	31,4	40	29	67	43	0,8	2	M16	6	2,1	✓	0,27
15G4D042043X8R00	33,4	42	29	67	43	0,8	2	M16	7	1,6	✓	0,28

Programming radius 2mm / Programmation - rayon 2mm

WCNT060205FR-FL



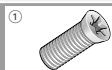
WCNW060205TR



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2504	IN2505	IN4036	IN6537				
WCNT060205FR-FL	0,40/1,00	positive geometry / Géométrie positive									
WCNW060205TR	0,50/1,10	neutral geometry / Géométrie neutre									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
 ACCESSOIRES



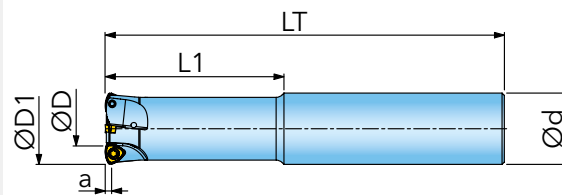
SM25-054-00 (1,1Nm)

TX08x90-B

① = Insert screw / Vis de serrage plaqueette ② = Torx-Bit / Embout torx

POWERFEED^{MINI} HIGH FEED CUTTER 15G4D...U/T
FRAISE GRANDE AVANCE 15G4D...U/T

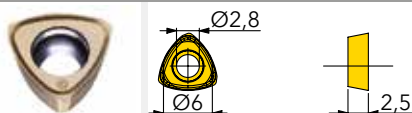
ADAPTION ACC. TO DIN 1835 A
 ATTACHEMENT DIN 1835 A



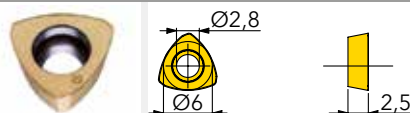
Designation Réf. de l'article	D	D1	d	LT	L1	a	Rp	Z			
15G4D016030T3R00	7,4	16	16	100	30	0,8	2	2	14,4	✓	0,12
15G4D020050T4R00	11,4	20	20	130	50	0,8	2	3	5,9	✓	0,26
15G4D025060T5R00	16,4	25	25	140	60	0,8	2	4	5,3	✓	0,43
15G4D030070U7R00	21,4	30	32	150	70	0,8	2	5	3,5	✓	0,78
15G4D032070U7R00	23,4	32	32	150	70	0,8	2	5	3,1	✓	0,80

Rp = Programming radius / Rp = Programmation - rayon

WCNT060205FR-FL



WCNW060205TR



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2504	IN2505	IN4036	IN6537				
WCNT060205FR-FL	0,40/1,00	positive geometry / Géométrie positive									
WCNW060205TR	0,50/1,10	neutral geometry / Géométrie neutre									

● = P ● = M ● = K ● = N ● = S ○ = H

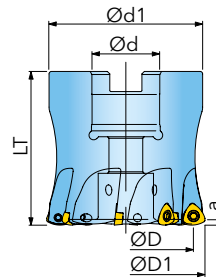
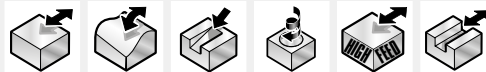
SPARE PARTS
 ACCESSOIRES



SM25-054-00 (1,1Nm) TX08x90-B

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

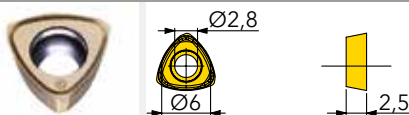
ADAPTION ACC. TO DIN 8030
 ATTACHEMENT DIN 8030



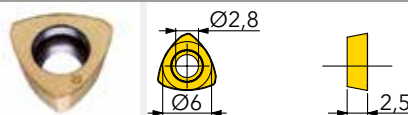
Designation Réf. de l'article	D	D1	d	d1	LT	a	Rp	Z			
5G5D032R00	23,4	32	16	30	40	0,8	2	5	3,1	✓	0,15
5G5D035R00	26,4	35	16	30	40	0,8	2	6	2,2	✓	0,17
5G5D040R00	31,4	40	22	38	40	0,8	2	6	2,1	✓	0,23
5G5D042R00	33,4	42	22	38	40	0,8	2	7	1,6	✓	0,24
5G5D050R00	41,4	50	22	45	50	0,8	2	8	1,3	✓	0,52
5G5D052R00	43,4	52	22	40	50	0,8	2	8	1,2	✓	0,56
5G5D066R00	57,4	66	27	58	50	0,8	2	10	1,0	✓	0,78

Rp = Programming radius / Rp = Programmation - rayon

WCNT060205FR-FL



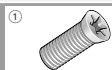
WCNW060205TR



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2504	IN2505	IN4036	IN6537				
WCNT060205FR-FL	0,40/1,00	positive geometry / Géométrie positive									
WCNW060205TR	0,50/1,10	neutral geometry / Géométrie neutre									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
 ACCESSOIRES



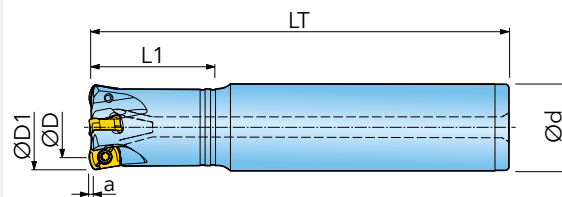
SM25-054-00 (1,1Nm)

TX08x90-B

① = Insert screw / Vis de serrage plaqueette ② = Torx-Bit / Embout torx

DIFFEED^{WIN-V} HIGH FEED CUTTER 1TG1V..T/U
FRAISE GRANDE AVANCE 1TG1V..T/U

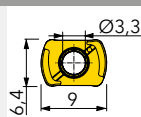
ADAPTION ACC. TO DIN 1835 A
 ATTACHEMENT DIN 1835 A



Designation Réf. de l'article	D	D1	d	LT	L1	a	Rp	Z			
1TG1V016030T3R00	9,1	16	16	100	30	1	1,5	2	5,1	✓	0,14
1TG1V020050T4R00	12	20	20	130	50	1	2,0	3	2,5	✓	0,26
1TG1V025060T5R00	17	25	25	140	60	1	2,0	4	2,5	✓	0,44
1TG1V032070U7R00	24	32	32	150	70	1	2,0	5	1,4	✓	0,81
1TG1V040040U7R00	32	40	32	150	40	1	2,0	6	1,2	✓	0,96

Rp = Programming radius / Rp = Programmation - rayon

UNLV0603M0TR



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2504	IN2505	IN2530	IN6537				
UNLV0603M0TR	0,30/2,50	semi positive geometry / Géométrie semi-positive									

● = P ● = M ● = K ● = N ● = S ○ = H

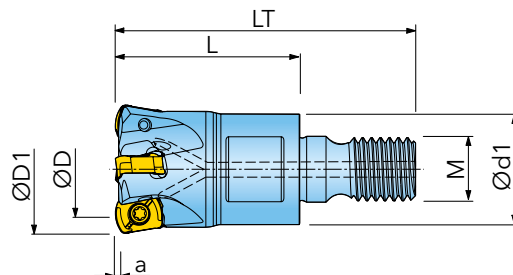
SPARE PARTS
 ACCESSOIRES



SM25-064-01 (1,1Nm) TXPLUS08x90-B

① = Insert screw / Vis de serrage plaquette ② = Torx-Bit / Embout torx

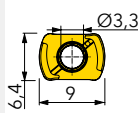
SCREW-IN TYPE ADAPTION
 ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	D1	d1	LT	L	a	Rp	M	Z			
1TG1V016025X5R00	9,1	16	13	42,5	25	1	1,5	M8	2	5,1	✓	0,09
1TG1V020030X6R00	12	20	18	50	30	1	2,0	M10	3	2,5	✓	0,12
1TG1V025035X7R00	17	25	21	57	35	1	2,0	M12	4	2,5	✓	0,16
1TG1V032040X8R00	24	32	29	65	40	1	2,0	M16	5	1,4	✓	0,27
1TG1V035043X8R00	27	35	29	68	43	1	2,0	M16	5	1,3	✓	0,30
1TG1V040043X8R00	32	40	29	68	43	1	2,0	M16	6	1,2	✓	0,33

Rp = Programming radius / Rp = Programmation - rayon

UNLV0603M0TR



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2504	IN2505	IN2530	IN6537				
UNLV0603M0TR	0,30/2,50	semi positive geometry / Géométrie semi-positive									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
 ACCESSOIRES

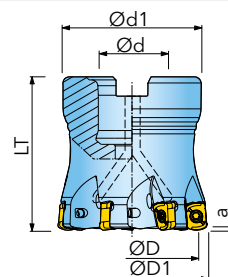


SM25-064-01 (1,1Nm) TXPLUS08x90-B

① = Insert screw / Vis de serrage plaquelette ② = Torx-Bit / Embout torx

DIFFEED WIN-V HIGH FEED CUTTER TG1V FRAISE GRANDE AVANCE TG1V

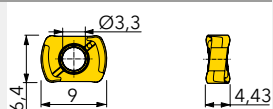
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	D1	d	d1	LT	a	Rp	Z			
TG1V032R00	24	32	16	30	40	1	2,0	5	1,4	✓	0,12
TG1V040R00	32	40	16	38	40	1	2,0	6	1,2	✓	0,19
TG1V050R00	42	50	22	45	50	1	2,0	6	1,1	✓	0,39
TG1V050R01	42	50	22	45	50	1	2,0	7	1,1	✓	0,39
TG1V052R00	44	52	22	45	40	1	2,0	7	0,7	✓	0,37
TG1V063R00	55	63	22	48	50	1	2,0	8	0,6	✓	0,67

Rp = Programming radius / Rp = Programmation - rayon

UNLV0603M0TR



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2504	IN2505	IN2530	IN6537				
UNLV0603M0TR	0,30/2,50	semi positive geometry / Géométrie semi-positive									

● = P ● = M ● = K ● = N ● = S ○ = H

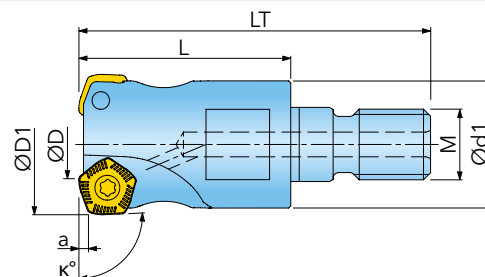
SPARE PARTS
ACCESSOIRES



SM25-064-01 (1,1Nm) TXPLUS08x90-B

① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

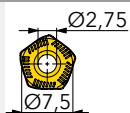
SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	D1	d1	LT	L	κ	a	M	Z		IK	kg
1DP1E020030X6R00	10,6	20	18	49,8	30	92	1	M10	2	9,6	✓	0,05
1DP1E025035X7R00	15,4	25	21	57	35	92	1	M12	3	5,2	✓	0,09
1DP1E032043X8R00	22,4	32	29	67	43	92	1	M16	5	3,4	✓	0,20
1DP1E035043X8R00	25,4	35	29	67	43	92	1	M16	5	3,0	✓	0,21
1DP1E040043X8R00	30,4	40	29	67	43	92	1	M16	5	2,5	✓	0,22
1DP1E042043X8R00	32,4	42	29	67	43	92	1	M16	5	2,3	✓	0,24

Programming radius 2,5mm / Programmation - rayon 2,5mm

PEMT0502ZCTR-HR



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2035	IN2505	IN2530						
PEMT0502ZCTR-HR	0,40/1,50	positive geometry / Géométrie positive										

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

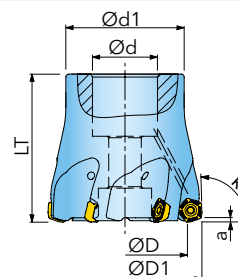


SM25-064-00 (1,1Nm)

TX08x90-B

① = Insert screw / Vis de serrage plaquelette ② = Torx-Bit / Embout torx

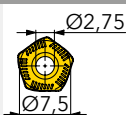
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	D1	d	d1	LT	κ	a	Z			
DP5E040R00	30,4	40	16	30	40	92	1	5	2,5	✓	0,16
DP5E050R00	40,4	50	22	40	50	92	1	6	1,8	✓	0,37
DP5E052R00	42,4	52	22	40	50	92	1	6	1,7	✓	0,38
DP5E063R00	53,4	63	27	48	50	92	1	7	1,4	✓	0,58
DP5E066R00	56,4	66	27	48	50	92	1	7	1,4	✓	0,61

Programming radius 2,5mm / Programmation - rayon 2,5mm

PEMT0502ZCTR-HR



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2035	IN2505	IN2530					
PEMT0502ZCTR-HR	0,40/1,50	positive geometry / Géométrie positive									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

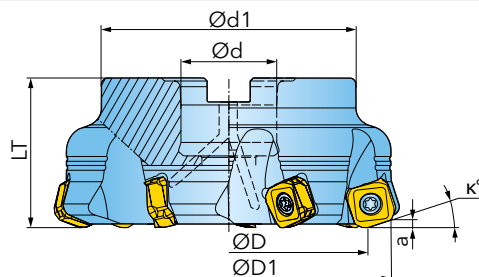


SM25-064-00 (1,1Nm) TX08x90-B

① = Insert screw / Vis de serrage plaque ② = Torx-Bit / Embout torx

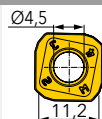
DIPOSQUAD[®] HIGH FEED CUTTER DG6G **FRAISE GRANDE AVANCE DG6G**

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	D1	d	d1	LT	κ	a	Z	IK	kg
DG6G050R00	50	63,5	22	45	40	20	1,8	4	✓	0,50
DG6G063R00	63	76,5	22	47	50	20	1,8	5	✓	0,90
DG6G080R00	80	93,5	27	70	50	20	1,8	6	✓	1,50
DG6G100R00	100	113,5	32	85	50	20	1,8	8	✓	2,20

SQGU1105ANR-M



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2505	IN2510	IN6537					
SQGU1105ANR-M ¹⁾	0,20/1,50	positive Geometry / Géométrie positive R0,8									

¹⁾* Cutting information is responsible to used Cutter! / Les paramètres de coupe varient en fonction du type de fraise.

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES

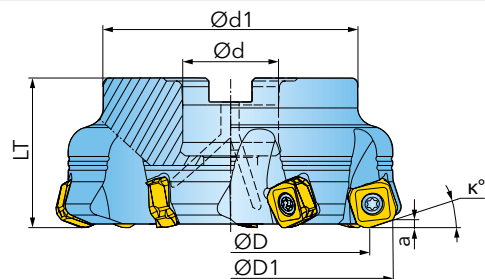


SM40-115-00 (4,5Nm) TX15x90-B

① = Clamp screw / Vis de serrage ② = Torx-Bit / Embout torx

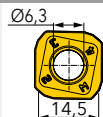
DIPOSQUAD[®] HIGH FEED CUTTER DG6K **FRAISE GRANDE AVANCE DG6K**

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	D1	d	d1	LT	κ	a	Z	IK	kg
DG6K063R00	63	80,6	22	47	50	20	2,5	5	✓	1,0
DG6K080R00	80	97,6	27	70	50	20	2,5	6	✓	1,7
DG6K100R00	100	117,5	32	85	50	20	2,5	7	✓	2,5
DG6K125R00	125	142,5	40	85	63	20	2,5	8	✓	4,3

SQGU1406ANR-M



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN2505	IN2510	IN6537				
SQGU1406ANR-M ¹⁾	0,25/2,30	positive Geometry / Géométrie positive R0,8								

¹⁾* Cutting information is responsible to used Cutter! / Les paramètres de coupe varient en fonction du type de fraise.

● = P ● = M ● = K ● = N ● = S ○ = H

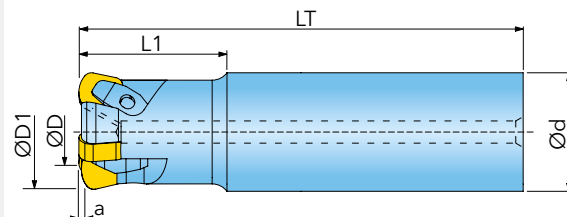
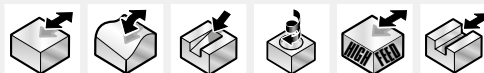
SPARE PARTS ACCESSOIRES



TS 50C130I/HG (6,0Nm) TX20x90-B

① = Clamp screw / Vis de serrage ② = Torx-Bit / Embout torx

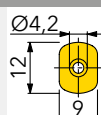
ADAPTION ACC. TO DIN 1835 A
ATTACHEMENT DIN 1835 A



Designation Réf. de l'article	D	D1	d	LT	L1	a	Rp	Z		IK	kg
1ZG3F025040T4R00	14,8	25	25	100	40	1,5	3,4	3	1	✓	0,32
1ZG3F032040U7R00	21,5	32	32	120	40	1,5	3,4	3	0,6	✓	0,63
1ZG3F040040U7R00	29,4	40	32	120	40	1,5	3,4	4	0,5	✓	0,69

Rp = Programming radius / Rp = Programmation - rayon

LNXF0905R01



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN76N							
LNXF0905R01	0,10/0,30	neutral geometry silicon nitride / Géométrie neutre céramique									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



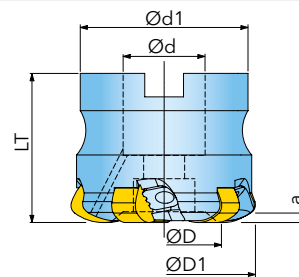
CCL-3S ASSY

LW 2

① = Clamp set / Bride set ② = Wrench / Clé de serrage

CERASPEED HIGH FEED CUTTER DG1H FRAISE GRANDE AVANCE DG1H

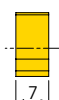
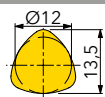
ADAPTION ACC. TO DIN 8030
 ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	D1	d	d1	LT	a	Rp	Z			
DG1H050R00	32,8	50	22	45	40	2,5	4,5	5	0,5	✓	0,30
DG1H063R00	45,7	63	22	47	40	2,5	4,5	7	0,4	✓	0,40
DG1H080R00	62,6	80	27	70	50	2,5	4,5	8	0,3	✓	1,20

Rp = Programming radius / Rp = Programmation - rayon

TNXN1207N0104



Designation Réf. de l'article	fz(min/max)	Design Conception	Grade Nuance	IN76N							
TNXN1207N0104	0,15/0,40	neutral geometry silicon nitride / Géométrie neutre céramique									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES	①	②	③	
WFZ 6-C	WS 6	TW 3		

① = Clamp / Bride ② = Lock screw / Vis de blocage ③ = Screw driver / Tournevis

SOLID CARBID MILLING CUTTERS / FRAISES CARBURE MONOBLOC

	D	a	Description	Page
	8 - 25	5 - 22	CHIP SURFER High precision ball nose for aluminum Fraise hemispherique haute precision pour aluminium	288
	8 - 16	5 - 12	CHIP SURFER High precision ball nose Z=2 Fraise hemispherique haute precision Z=2	288
	8 - 20	5 - 15	CHIP SURFER High precision ball nose Z=3 Fraise hemispherique haute precision Z=3	289
	5 - 25	7 - 22	CHIP SURFER High precision ball nose Z=4 Fraise hemispherique haute precision Z=4	289
	8 - 20	5 - 16	CHIP SURFER High precision ball nose Z=4 Fraise hemispherique haute precision Z=4	290
	8 - 10	8 - 10	CHIP SURFER Ball nose cutters for roughing Fraise ébauche hemispherique haute precision	290
	8 - 16	8 - 16	CHIP SURFER Ball Nose Cutter for hard milling Fraise hemispherique haute precision pour matériaux durs	291
	10 - 20	7,5 - 15,5	CHIP SURFER High precision ball nose cutter spherical Fraise hemispherique haute precision	291
	8 - 20	0,1 - 0,4	CHIP SURFER Finish mill lens-shape 46D_ with i.c. Fraise lentille de finition 46D_ avec arrosage inter	292
	8 - 16	8,8 - 15,7	CHIP SURFER Bevel cutter for aluminum Z=3 FRAISE EN BOUT CONIQUE - GÉOMÉTRIE ALU Z=3	292
	8 - 16	8,8 - 15,7	CHIP SURFER Bevel cutter for steel Z=3 FRAISE EN BOUT CONIQUE - GÉOMÉTRIE ACIER/INOX Z=3	293
	12 - 16	16,4 - 20,9	CHIP SURFER long flute mill Z=6 Fraise tonneau Z=6	293
	10 - 20	0,6 - 1,5	CHIP SURFER High feed cutter Z=2 Fraise grande-avancé Z=2	294
	8 - 25	0,4 - 1,2	CHIP SURFER High feed cutter Z=4 / Z=6 Fraise grande-avancé Z=4 / Z=6	295

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

SOLID CARBID MILLING CUTTERS / FRAISES CARBURE MONOBLOC

	D	a	Description	Page
	7,8 - 16	7,5 - 15	CHIP SURFER Slot drill with corner radius FRAISE RAYONNEE A RAINURER / PERCER	296
	8 - 16	7,5 - 15	CHIP SURFER Slot drill with corner radius hard milling FRAISE RAYONNEE A RAINURER / PERCER POUR MATERIAUX DURS	297
	10 - 16	7 - 8	CHIP SURFER Toric cutters with corner radius neutral Fraise torique rayonnee	298
	10 - 12	7 - 6,1	CHIP SURFER Toric cutters with corner radius hard milling Fraise torique pour matériaux durs	299
	8 - 16	4 - 9	CHIP SURFER Toric cutter with corner radius finishing Fraise torique pour finition	299
	8 - 25	5 - 22	CHIP SURFER HPC roughing / finishing geometry Géométrie HPC ébauche/finition	300
	8 - 25	5 - 22	CHIP SURFER HPC roughing / finishing geometry Z=4 TITAN / stainless steel Géométrie HPC ébauche/finition z=4 titane/inox	301
	8 - 25	5 - 22	CHIP SURFER HPC roughing / finishing geometry Z=5 TITAN / stainless steel Géométrie HPC ébauche/finition z=5 titane/inox	302
	8 - 20	5,5 - 12,7	CHIP SURFER Roughing cutter for aluminum Fraise ébauche pour aluminium	303
	8 - 20	5,5 - 12,7	CHIP SURFER Roughing cutter for aluminum Fraise ébauche pour aluminium	303
	8 - 25	5 - 22	CHIP SURFER Roughing end mill Fraise en bout ébauche	304
	8 - 25	5 - 22	CHIP SURFER Roughing and finishing end mill Fraise en bout pour ébauche et finition	305
	8 - 25	12 - 37	CHIP SURFER Roughing cutter 1,5xD Fraise d'ébauche série longue 1,5 x D	305
	8 - 25	12 - 37	CHIP SURFER Roughing and finishing Cutter 1,5xD fraise d'ébauche et finition série longue 1,5 x D	306

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

SOLID CARBID MILLING CUTTERS / FRAISES CARBURE MONOBLOC

	D	a	Description	Page
	8 - 25	12 - 37	CHIPSURFER Finishing Cutter 1,5xD Fraise de finition série longue 1,5 x D	306
	8 - 16	5 - 12	CHIPSURFER End mill with corner radius for aluminum Z=2 Fraise en bout rayonnée pour aluminum Z=2	307
	8 - 12	5 - 9	CHIPSURFER End mill with corner radius for aluminum Z=2 Fraise en bout rayonnée pour aluminum Z=2	308
	8 - 20	5 - 12	CHIPSURFER End mill with corner radius for aluminum Z=3 Fraise en bout rayonnée pour aluminum Z=3	309
	8 - 20	5 - 12	CHIPSURFER End mill with corner radius for aluminum Z=3 Fraise en bout rayonnée pour aluminum Z=3	310
	7,7 - 19,7	4 - 12	CHIPSURFER Undersize end mill Fraise en bout sous cotée	311
	8 - 16	5 - 12	CHIPSURFER End mill Z=3 Fraise en bout à 3 dents	311
	11 - 20	8,4 - 15	CHIPSURFER End mill with corner radius 30° Fraise en bout rayonnée à 30°	312
	6 - 20	5,5 - 15	CHIPSURFER End Mill with corner radius 45° Fraise en bout rayonnée à 45°	313
	10 - 20	7 - 15	CHIPSURFER Finishing cutter with corner radius 30° Fraise de finition rayonnée à 30°	314
	8 - 12	5 - 9	CHIPSURFER Finishing cutter with corner radius 45° Fraise de finition rayonnée à 45°	315
	9,4 - 15,7	0,9 - 2,2	CHIPSURFER Double chamfering head Fraise à chanfreiner en bout et en tirant	316
	8 - 20	3,7 - 5,9	CHIPSURFER Countersinking and chamfering cutter 60° / 90° / 120° Fraise à chanfreiner "60° / 90° / 120°"	317
	2 - 5	2,3 - 13	CHIPSURFER Chamfering cutter 30°/45°/60° Fraise à chanfreiner "30°/45°/60°"	318

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

SOLID CARBID MILLING CUTTERS / FRAISES CARBURE MONOBLOC

	D	a	Description	Page
	5,8 - 8	7,5 - 7	CHIP SURFER Concave radius milling cutter Z=2 Fraise rayonnee "Concave" Z=2	319
	5,8 - 6,5	1 - 3	CHIP SURFER Concave radius milling cutter Z=4 Fraise rayonnee "Concave" Z=4	319
	24,8 - 19,7	2,7 - 2,3	CHIP SURFER Concave radius milling cutter Z=6 Fraise rayonnee "Concave" Z=6	320
	8 - 20	10 - 25	CHIP SURFER 90° Flute drill heat 90° Fraise à lamer et percer	320
	8 - 16	5 - 8	CHIP SURFER NC Center Drill Foret à centrer	321
	3,28 - 6,46		CHIP SURFER Centering drill according to DIN 332 Foret à centrer DIN 332	321
	8		CHIP SURFER Engraving cutter 45°/60°/90° Fraise pour gravure 45°/60°/90°	322
	14,9		CHIP SURFER Slot mill for chamfering 45° Z=3 Fraise à chanfreiner "45°" à 3 dents	322
	18,3	1,5	CHIP SURFER Slot mill for chamfering 45° Z=4 Fraise à chanfreiner "45°" à 4 dents	323
	19,7		CHIP SURFER Slot mill for chamfering 45° Z=4 (18N) Fraise à chanfreiner "45°" à 4 dents (18N)	323
	5,3	2,7	CHIP SURFER Slot mill for chamfering Z=4 Fraise à chanfreiner par interpolation Z=4	324
	15,7 - 17,7	2,2 - 3	CHIP SURFER T-Slot cutter for O-ring grooves Z=3 (16R) Fraise 3 tailles pour rainures de circlips Z=3 (16R)	324
	15,7 - 17,7	1,5 - 3,17	CHIP SURFER T-Slot cutter for O-ring grooves Z=3 Fraise 3 tailles pour rainures de circlips Z=3	325
	21,7	4 - 6	CHIP SURFER T-Slot cutter for O-ring grooves Z=4 (17R) Fraise 3 tailles pour rainures de circlips Z=4 (17R)	326

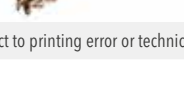
Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

SOLID CARBID MILLING CUTTERS / FRAISES CARBURE MONOBLOC

	D	a	Description	Page
		21,7	0,76 - 4 CHIP SURFER T-Slot cutter for O-ring grooves Z=4 Fraise 3 tailles pour rainures de circlips Z=4	327
		7,7	0,7 - 2 CHIP SURFER Slot mill Z=4 Fraise à rainurer Z=4	328
		13,5 - 27,7	2 - 10 CHIP SURFER Slot mill with chamfer or corner radius Z=6 Fraise 3 tailles avec chanfrein ou rayon Z=6	329
		12 - 25	3,6 - 7,5 CHIP SURFER Face Mill Z=6 Fraise à surfacer-dresser Z=6	330
		24,25 - 39,25	8 - 10 MULTI SURFER Cutter Z=6/8/10 Fraise multifonctions Z=6/8/10	330
		24,7 - 39,7	3 - 10 MULTI SURFER Interchangeable Slotting Cutter Fraise disque interchangeable	331
		24,7 - 39,7	MULTI SURFER Threading Heads 55°/60° Fraises à fileter 55°/60°	332
		3 - 20	8 - 50 SOLID CARBIDE HPC rougher & finisher unequally spaced Z=4 / Z=5 Fraise HPC ravageuse & finition-Z4 ou Z5	333
		5 - 20	10 - 40 SOLID CARBIDE 4-7 Flute Roughers - 2xD Fraise ravageuse - 2xD-Z4 à Z7	334
		6 - 20	12 - 40 SOLID CARBIDE 4-7 Flute Roughers - 3xD Fraise ravageuse - 3xD-Z4 à Z7	335
		8 - 16	12 - 24 SOLID CARBIDE 4-5 Flute Roughers - 4xD Fraise ravageuse - 4xD-Z4 ou Z5	335
		2 - 20	7 - 38 SOLID CARBIDE 3 Flute Slot Drill - DIN 6535HA Fraise en bout-Z3-DIN 6535HA	336
		6 - 20	16 - 38 SOLID CARBIDE 6 Flute End Mill - Medium Length (finishing) Fraise en bout-finition-série moyenne-Z6	337
		4 - 20	12 - 38 SOLID CARBIDE 2 Flute Slot Drill - Medium Length Fraise Alu à rainurer 2 helices - longueur moyenne	338

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

SOLID CARBID MILLING CUTTERS / FRAISES CARBURE MONOBLOC

	D	a	Description	Page
	4 - 20	12 - 38	SOLID CARBIDE 2 Flute Slot Drill - Medium Length Fraise Alu à rainurer 2 helices - longueur moyenne	339
	5 - 20	14 - 38	SOLID CARBIDE 3 Flute End Mill with corner radius Fraise Alu rayonnée Z=3	340
	5 - 20	14 - 38	SOLID CARBIDE 3 Flute End Mill with corner radius Fraise Alu rayonnée Z=3	341
	3 - 12	30 - 75	SOLID CARBIDE 4 Flute End Mill - Extra Long Length Fraise Alu en bout, serie extra longue-Z4	342
	6 - 20	10 - 26	ECO LINE High speed Cutter Z=4 short version Fraise Carbure HPC - série courte Z=4 eco	343
	6 - 20	13 - 41	ECO LINE High speed Cutter Z=4 long version Fraise Carbure HPC - série longue Z=4 eco	344
	6 - 20	19 - 48	ECO LINE High speed Cutter Z=4 very long version Fraise Carbure HPC - Série extra longue Z=4 eco	345
	4 - 20	10 - 38	PREMIUM LINE HPC Ballnose Cutter Z=4 (PL) Fraise hémisphérique hpc Z=4 (PL)	346
	3 - 20	7 - 41	PREMIUM LINE HPC Cutter Z=4 (PL) Fraise HPC Z=4 (Premium Line)	347
	3 - 20	10 - 48	PREMIUM LINE HPC Cutter Z=4 (PL) long version Fraise HPC Z=4 (Premium Line) - version longue	348
	3 - 20	7 - 41	PREMIUM LINE HPC Cutter Z=4 (PL) S Fraise HPC Z=4 (Premium Line) Inox	349
	3 - 20	10 - 48	PREMIUM LINE HPC Cutter Z=4 (PL) S long version Fraise HPC Z=4 (Premium Line) Inox - version longue	350
	6 - 20	24 - 65	SPUT LINE HPC Cutter 3xD Fraise trochoïdale HPC 3xD	351
	6 - 20	24 - 65	SPUT LINE HPC Cutter 3xD Fraise trochoïdale HPC 3xD - INOX	352

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

SOLID CARBID MILLING CUTTERS / FRAISES CARBURE MONOBLOC

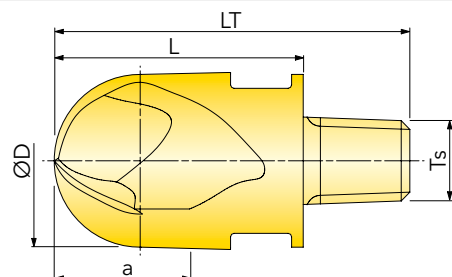
	D	a	Description	Page
		6 - 20 24 - 65	SPLITLINE HPC Cutter 3xD Z=5 (SP) Fraise trochoïdale HPC 3xD	353
		10 - 20 55 - 105	SPLITLINE HPC Cutter 5xD Z=5 (SP) Fraise trochoïdale HPC 5xD	354
		4 - 12 5 - 16	INRAPD HSC ball nose end mill, Z=4 Fraise hémisphérique UGV, z=4	355
		4 - 12 4 - 8	INCOOLANT High-speed end mill, Z=3 Fraise torique ugv avec arrosage intégré, Z=3 - Super Alliages	356
		6 - 20 13 - 32	INNOVATIVE HPC end mill, Z=4 Fraise en bout à géométrie HPC, Z=4	357
		6 - 25 13 - 40	INNOVATIVE HPC end mill, Z=5 Fraise en bout à géométrie HPC, Z=5	358
		5 - 25 13 - 50	INNOTITAN HPC Titanium End Mill Z=4 Fraise HPC pour l'usinage du Titane Z=4	360
		6 - 20 13 - 42	INNOTITAN HPC Titanium End Mill Z=5 Fraise HPC pour l'usinage du Titane Z=5	362
		8 - 20 12 - 30	INNOVATIVEALU Serrated roughing end mill Z=3 Fraise Alu ravageuse, Z=3 - Revêtue	363
		8 - 20 12 - 30	INNOVATIVEALU HPC end mill Z=3 (ALU) Fraise HPC Z=3 pour l'usinage de l'Aluminium	364
		6 - 16 6 - 12	INCERAMIC Solid Ceramic Speed End mill Z=3 Fraise céramique Monobloc Z=3	365

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

CHIPSURFER HIGH PRECISION BALL NOSE FOR ALUMINUM

FRAISE HEMISPHERIQUE HAUTE PRECISION POUR ALUMINIUM

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN05S

P

M

K

N_(K)

S_(M)

H_(PK)

D

e8



+ Preferred choice / Premier choix O Second choice / Second choix

Designation
Réf. de l'article

D

LT

L

α

a

Ts

Z

kg

①



45B08005TQRB10

8

17,1

10

30

5

T5

2

0,005

WS-0043

45B10007T6RB13

10

19,65

13

30

7

T6

2

0,011

WS-0029

45B12009T8RB17

12

24,5

16,5

30

9

T8

2

0,020

WS-0030

45B16012TRRB21

16

32,3

20,5

30

12

T10

2

0,040

WS-0044

45B20015TSRB26

20

39,3

25,5

30

15

T12

2

0,072

WS-0059

45B25022TURB37

25

54,6

37

30

22

T15

2

0,200

WS-0061

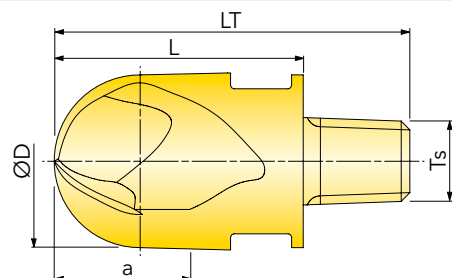
Diamond coating on request / revêtement diamant sur demande

① = Wrench / Clé de serrage

CHIPSURFER HIGH PRECISION BALL NOSE Z=2

FRAISE HEMISPHERIQUE HAUTE PRECISION Z=2

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P

M

K

N_(K)

S_(M)

H_(PK)

D

e8



+ Preferred choice / Premier choix O Second choice / Second choix

Designation
Réf. de l'article

D

LT

L

α

a

Ts

Z

kg

①



45B08005TQRB10

8

17,1

10

30

5

T5

2

0,006

WS-0043

45B10007T6RB13

10

19,65

13

30

7

T6

2

0,011

WS-0029

45B12009T8RB17

12

24,5

16,5

30

9

T8

2

0,020

WS-0030

45B16012TRRB21

16

32,3

20,5

30

12

T10

2

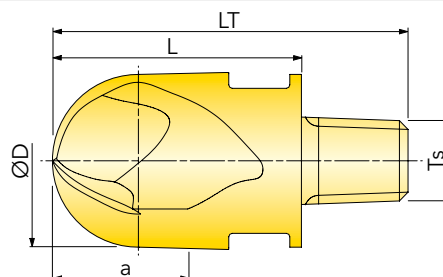
0,045

WS-0044

① = Wrench / Clé de serrage

CHIP SURFER HIGH PRECISION BALL NOSE Z=3 FRAISE HEMISPHERIQUE HAUTE PRECISION Z=3

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P
M
K
N_(K)
S_(M)
H_(P/K)

+ Preferred choice / Premier choix O Second choice / Second choix

D e8

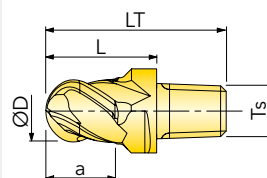


Designation Réf. de l'article	D	LT	L	a	Ts	Z	kg	①
46B08005TQRB10	8	22,1	15	5	T5	3	0,005	WS-0043
46B10007T6RB13	10	25,65	19	7	T6	3	0,010	WS-0029
46B12009T8RB17	12	24,5	16,5	9	T8	3	0,020	WS-0030
46B16012TRRB21	16	32,3	20,5	12	T10	3	0,040	WS-0044
46B20015TSRB26	20	39,3	25,5	15	T12	3	0,080	WS-0059

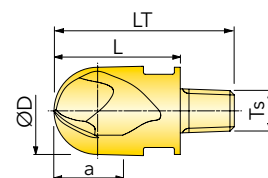
① = Wrench / Clé de serrage

CHIP SURFER HIGH PRECISION BALL NOSE Z=4 FRAISE HEMISPHERIQUE HAUTE PRECISION Z=4

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Typ 1



Typ 2

Grade / Nuance

IN2005

P
M
K
N_(K)
S_(M)
H_(P/K)

+ Preferred choice / Premier choix O Second choice / Second choix

D e8

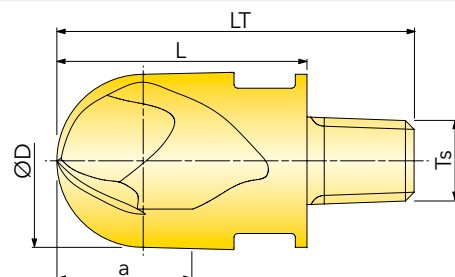


Designation Réf. de l'article	D	LT	L	a	Ts	Typ	Z	kg	①
47B05007TQRB15	5	22,1	15	7	T5	1	4	0,007	WS-0043
47B06005TQRB10	6	17,1	10	5,5	T5	2	4	0,005	WS-0043
47B08005TQRB10	8	17,1	10	5	T5	2	4	0,006	WS-0043
47B10007T6RB13	10	19,65	13	7	T6	2	4	0,011	WS-0029
47B12009T8RB17	12	24,5	16,5	9	T8	2	4	0,024	WS-0030
47B16012TRRB21	16	32,3	20,5	12	T10	2	4	0,049	WS-0044
47B20015TSRB26	20	39,3	25,5	15	T12	2	4	0,090	WS-0059
47B25022TURB37	25	54,6	37	22	T15	2	4	0,206	WS-0061

① = Wrench / Clé de serrage

CHIPSURFER HIGH PRECISION BALL NOSE Z=4 FRAISE HEMISPHERIQUE HAUTE PRECISION Z=4

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2006

P
M
K
N_(K)
S_(M)
H_(PK)

+ Preferred choice / Premier choix ○ Second choice / Second choix



Designation
Réf. de l'article

D LT L a Ts Z

kg

①

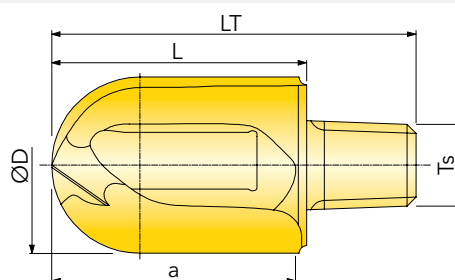


47B08005TQRQ10	8	17,1	10	5	T5	4	0,006	WS-0043
47B10007T6RQ13	10	19,65	13	7	T6	4	0,011	WS-0029
47B12009T8RQ17	12	24,5	16,5	9	T8	4	0,024	WS-0030
47B16012TRRQ21	16	32,3	20,5	12	T10	4	0,049	WS-0044
47B20016TSRQ26	20	39,3	25,5	16	T12	4	0,087	WS-0059

① = Wrench / Clé de serrage

CHIPSURFER BALL NOSE CUTTERS FOR ROUGHING FRAISE EBAUCHE HEMISPHERIQUE HAUTE PRECISION

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P
M
K
N_(K)
S_(M)
H_(PK)

+ Preferred choice / Premier choix ○ Second choice / Second choix

D h9



Designation
Réf. de l'article

D LT L a Ts Z

kg

①



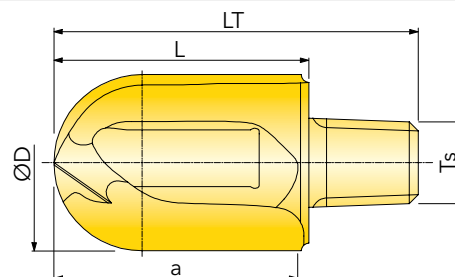
45B08008TQRA10	8	17,1	10	8	T5	2	0,005	WS-0043
45B10010T6RA12	10	19,05	12,4	10	T6	2	0,009	WS-0029
45B12011T8RA15	12	23,3	15,3	12	T8	2	0,018	WS-0030
45B16016TRRA19	16	30,9	19,1	16	T10	2	0,038	WS-0044
45B10010T6RW12 ¹⁾	10	19,05	12,4	10	T6	2	0,009	WS-0029

¹⁾high precision tool (h7) / Outil haute précision (h7)

① = Wrench / Clé de serrage

CHIPSURFER BALL NOSE CUTTER FOR HARD MILLING FRAISE HEMISPHERIQUE HAUTE PRECISION POUR MATERIAUX DURS

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2006

P
M
K
N_(K)
S_(M)
H_(P/K)

+ Preferred choice / Premier choix ○ Second choice / Second choix

D h7

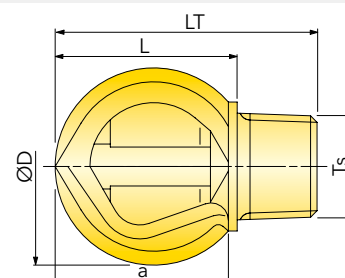


Designation Réf. de l'article	D	LT	L	a	Ts	Z	kg	①
45B08008TQRW10	8	17,1	10	8	T5	2	0,005	WS-0043
45B10010T6RW12	10	19,05	12,4	10	T6	2	0,009	WS-0029
45B12011T8RW15	12	23,3	15,3	12	T8	2	0,018	WS-0030
45B16016TRRW19	16	30,9	19,1	16	T10	2	0,036	WS-0044

① = Wrench / Clé de serrage

CHIPSURFER HIGH PRECISION BALL NOSE CUTTER SPHERICAL FRAISE HEMISPHERIQUE HAUTE PRECISION

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P
M
K
N_(K)
S_(M)
H_(P/K)

+ Preferred choice / Premier choix ○ Second choice / Second choix

D h7

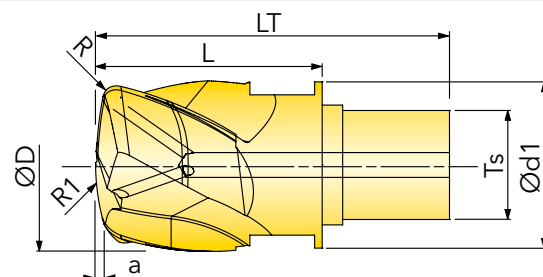


Designation Réf. de l'article	D	LT	L	a	Ts	Z	kg	①
45X10007TQRA10	10	17,2	10,1	7,5	T5	2	0,006	WS-0043
45X12009T6RA12	12	18,3	11,65	9	T6	2	0,011	WS-0030
45X16012T8RA15	16	23,4	15,4	12,5	T8	2	0,022	WS-0044
45X20015TRRA19	20	30,3	18,5	15,5	T10	2	0,038	WS-0044

① = Wrench / Clé de serrage

CHIPSURFER FINISH MILL LENS-SHAPE 46D_ WITH I.C. FRAISE LENTILLE DE FINITION 46D_ AVEC ARROSAGE INTER

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P
M
K
N_(K)
S_(M)
H_(PK)

+ Preferred choice / Premier choix ○ Second choice / Second choix



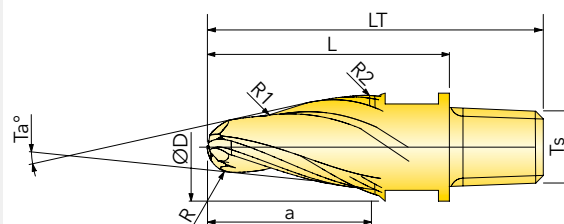
Designation
Réf. de l'article

	D	d1	LT	L	a	R	R1	Ts	Z	IK	kg	①
46D08005TQRB080	8	7,75	17,6	10,5	0,1	0,75	15	T5	3	✓	0,006	WS-0043
46D10007T6RB100	10	9,4	20,15	13,5	0,1	1	20	T6	3	✓	0,011	WS-0029
46D12009T8RB130	12	11,4	25	17	0,15	1,25	25	T8	3	✓	0,022	WS-0030
46D16013TRRB180	16	15,4	32,8	21	0,3	1,75	35	T10	3	✓	0,054	WS-0044
46D20016TSRB230	20	18,4	39,8	26	0,4	2,25	45	T12	3	✓	0,102	WS-0059

① = Wrench / Clé de serrage

CHIPSURFER BEVEL CUTTER FOR ALUMINUM Z=3 FRAISE EN BOUT CONIQUE - GEOMETRIE ALU Z=3

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN05S

P
M
K
N_(K)
S_(M)
H_(PK)

+ Preferred choice / Premier choix ○ Second choice / Second choix



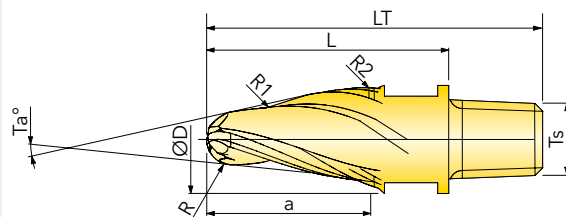
Designation
Réf. de l'article

	D	LT	L	Ta	a	R	R1	R2	Ts	Z	kg	①
46W08009TQRB011	8	22,1	15	40	8,8	1,5	250	4	T5	3	0,010	WS-0043
46W10013T6RB021	10	26,1	19,45	40	10,8	2	250	5	T6	3	0,020	WS-0029
46W12013T8RB031	12	31,25	23,25	40	11,8	3	250	6	T8	3	0,030	WS-0030
46W16017TRRB041	16	37,3	25,5	40	15,7	4	500	8	T10	3	0,050	WS-0044

① = Wrench / Clé de serrage

CHIP SURFER BEVEL CUTTER FOR STEEL Z=3 FRAISE EN BOUT CONIQUE - GÉOMÉTRIE ACIER/INOX Z=3

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)
 + + + +

+ Preferred choice / Premier choix ○ Second choice / Second choix

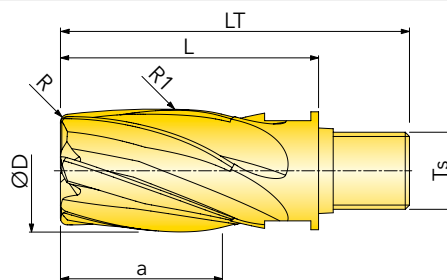


Designation Réf. de l'article	D	LT	L	Ta	a	R	R1	R2	Ts	Z	kg	①
46W08009TORB010	8	22,1	15	40	8,8	1,5	250	4	T5	3	0,010	WS-0043
46W10013T6RB020	10	26	19,35	40	10,8	2	250	5	T6	3	0,020	WS-0029
46W12013T8RB030	12	31,25	23,25	40	11,8	3	250	6	T8	3	0,030	WS-0030
46W16017TRRB040	16	37,3	25,5	40	15,7	4	500	8	T10	3	0,050	WS-0044

① = Wrench / Clé de serrage

CHIP SURFER LONG FLUTE MILL Z=6 FRAISE TONNEAU Z=6

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)
 + + + + ○

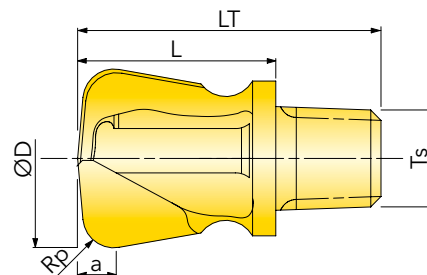
+ Preferred choice / Premier choix ○ Second choice / Second choix



Designation Réf. de l'article	D	LT	L	a	R	R1	Ts	Z	kg	①
48E12016T8RB271	12	35,0	27,0	16,4	0,5	70	T8	6	0,035	WS-0030
48E16021TRRB342	16	45,3	33,5	20,9	1	100	T10	6	0,070	WS-0044

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance
IN2005

P M K N_(K) S_(M) H_(P/K)
+ + + + +

D h9

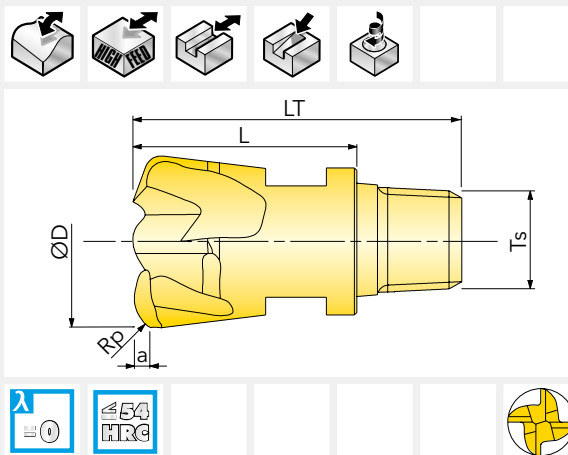


+ Preferred choice / Premier choix O Second choice / Second choix

Designation Réf. de l'article	D	LT	L	a	Rp	Ts	Z	kg	①
45A10001T6RA20	10	19,15	12,5	0,6	2	T6	2	0,009	WS-0029
45A12001T8RA25	12	19,1	11,1	1	2,5	T8	2	0,015	WS-0030
45A16001T8RA301	16	25,3	13,5	1,1	3	T10	2	0,030	WS-0044
45A20001TSRA30	20	31,3	17,5	1,5	3	T12	2	0,055	WS-0059
R (programming radius) / R (programmation rayon)									

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2006

P M K N_(K) S_(M) H_(PK)
+ + + + +

D e8



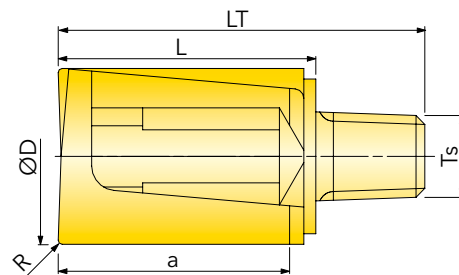
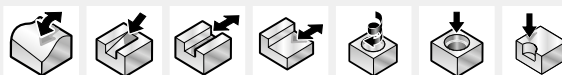
+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	LT	L	a	Rp	Ts	Z	①	kg
47A08001TQRA16	8	17,1	10	0,4	1,6	T5	4		0,006
47A10001T6RA20	10	19,65	13	0,5	2	T6	4		0,012
48A10001T6RA101	10	16,65	10	0,5	1	T6	6	✓	0,012
47A12001T8RA24	12	24,5	16,5	0,6	2,4	T8	4		0,023
48A12001T8RA121	12	20,5	12,5	0,65	1,2	T8	6	✓	0,023
47A16001TRRA32	16	32,3	20,5	0,8	3,2	T10	4		0,051
48A16001TRRA201	16	27,8	16	1,08	2	T10	6	✓	0,051
47A20001TSRA40	20	39,3	25,5	1,0	4	T12	4		0,095
48A20001TSRA221	20	33,8	20	1,28	2,2	T12	6	✓	0,095
48A25001TURA36	25	54,6	37	1,2	3,6	T15	6		0,155

R (programming radius) / R (programmation rayon)

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(S) S_(M) H_(P/K)
+ + + + O

D h9

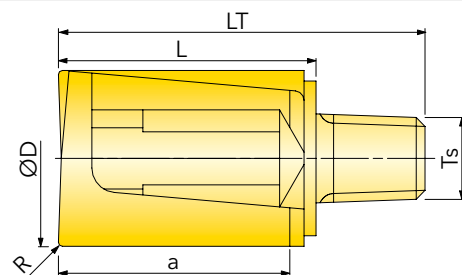
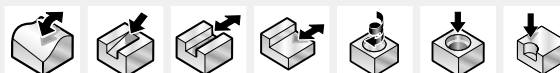


+ Preferred choice / Premier choix O Second choice / Second choix

Designation Réf. de l'article	D	LT	L	a	R	Ts	Z	kg	①
45D07807TQRA02	7,8	17,1	10	7,5	0,2	T5	2	0,005	WS-0043
45D08007TQRA10	8	17,1	10	7,5	1	T5	2	0,006	WS-0043
45D08007TQRA20	8	17,1	10	7,5	2	T5	2	0,005	WS-0043
45D08008TQRA04	8	17,3	10,2	8	0,4	T5	2	0,005	WS-0043
45D09809T6RA03	9,8	19,05	12,4	9	0,3	T6	2	0,009	WS-0029
45D10009T6RA04	10	19,05	12,4	9	0,4	T6	2	0,010	WS-0029
45D10009T6RA10	10	19,05	12,4	9	1	T6	2	0,010	WS-0029
45D10009T6RA20	10	19,05	12,4	9	2	T6	2	0,009	WS-0029
45D11710T8RA03	11,7	22,2	14,2	10	0,3	T8	2	0,017	WS-0030
45D12010T8RA04	12	22,2	14,2	10	0,4	T8	2	0,018	WS-0030
45D12010T8RA10	12	22,2	14,2	10	1	T8	2	0,018	WS-0030
45D12010T8RA20	12	22,2	14,2	10	2	T8	2	0,018	WS-0030
45D14012T8RA04	14	23	15	12	0,4	T8	2	0,018	WS-0030
45D15715TRRA03	15,7	30,8	19	15	0,3	T10	2	0,037	WS-0044
45D16015TRRA04	16	30,8	19	15	0,4	T10	2	0,037	WS-0044
45D16015TRRA08	16	30,8	19	15	0,8	T10	2	0,037	WS-0044

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2006

P M K N_(K) S_(M) H_(P/K)
+ + +

D h9

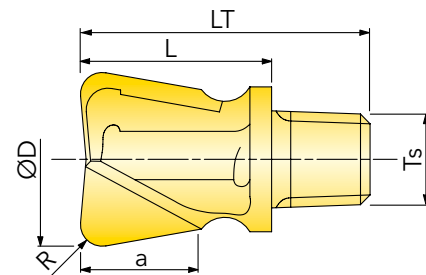


+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	LT	L	a	R	Ts	Z	kg	①
45D08008TQRA10	8	17,1	10	7,5	1	T5	2	0,005	WS-0043
45D08008TQRA20	8	17,1	10	7,5	2	T5	2	0,005	WS-0043
45D08008TQRA04	8	17,3	10,2	8	0,4	T5	2	0,005	WS-0043
45D10009T6RA04	10	19,05	12,4	9	0,4	T6	2	0,009	WS-0029
45D10009T6RA10	10	19,05	12,4	9	1	T6	2	0,009	WS-0029
45D12010T8RA04	12	22,2	14,2	10	0,4	T8	2	0,017	WS-0030
45D12010T8RA10	12	22,2	14,2	10	1	T8	2	0,017	WS-0030
45D12010T8RA20	12	22,2	14,2	10	2	T8	2	0,017	WS-0030
45D16015TRRA08	16	30,8	19	15	0,8	T10	2	0,036	WS-0044

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance
IN2005

P M K N_(S) S_(M) H_(PK)
+ + + + + ○

D h9



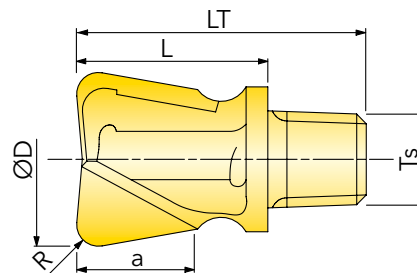
+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	LT	L	a	R	Ts	Z	kg	①
45U10008T6RA05	10	19,05	12,4	7	0,5	T6	2	0,009	WS-0029
45U10008T6RA10	10	19,05	12,4	7	1	T6	2	0,009	WS-0029
45U10006T6RA20	10	19,25	12,6	6	2	T6	2	0,009	WS-0029
45U10006T6RA30	10	19,25	12,6	6	3	T6	2	0,010	WS-0029
45U12006T6RA40	12	15,75	9,1	5,7	4	T6	2	0,005	WS-0029
45U12006T8RA10	12	19,1	11,1	6	1	T8	2	0,014	WS-0030
45U12006T8RA16	12	19,1	11,1	6,3	1,6	T8	2	0,014	WS-0030
45U12006T8RA20	12	19,1	11,1	6,2	2	T8	2	0,014	WS-0030
45U12006T8RA25	12	19,1	11,1	6,1	2,5	T8	2	0,014	WS-0030
45U12006T8RA30	12	19,1	11,1	6,1	3	T8	2	0,015	WS-0030
45U12006T8RA40	12	19,1	11,1	5,9	4	T8	2	0,015	WS-0030
45U16007TRRA20	16	24,9	13,1	7	2	T10	2	0,029	WS-0044
45U16007TRRA30	16	25,2	13,4	7	3	T10	2	0,030	WS-0044
45U16007TRRA40	16	25,2	13,4	7	4	T10	2	0,030	WS-0044
45U16008TRRA50	16	32	20,2	8	5	T10	2	0,038	WS-0044

① = Wrench / Clé de serrage

CHIPSURFER TORIC CUTTERS WITH CORNER RADIUS HARD MILLING FRAISE TORIQUE POUR MATERIAUX DURS

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2006

P
M
K
N_(K)
S_(M)
H_(P/K)

+ Preferred choice / Premier choix ○ Second choice / Second choix

D h9

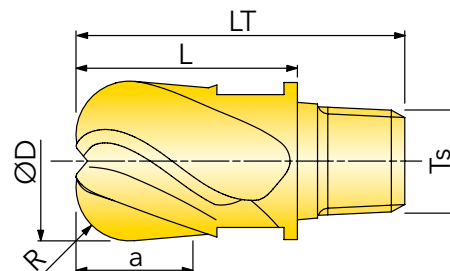


Designation Réf. de l'article	D	LT	L	a	R	Ts	Z	kg	①
45U10008T6RA10	10	19,05	12,4	7	1	T6	2	0,009	WS-0029
45U10006T6RA20	10	19,25	12,6	6	2	T6	2	0,009	WS-0029
45U10006T6RA30	10	19,25	12,6	6	3	T6	2	0,009	WS-0029
45U12006T8RA20	12	19,1	11,1	6,2	2	T8	2	0,014	WS-0030
45U12006T8RA30	12	19,1	11,1	6,1	3	T8	2	0,015	WS-0030

① = Wrench / Clé de serrage

CHIPSURFER TORIC CUTTER WITH CORNER RADIUS FINISHING FRAISE TORIQUE POUR FINITION

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P
M
K
N_(K)
S_(M)
H_(P/K)

+ Preferred choice / Premier choix ○ Second choice / Second choix

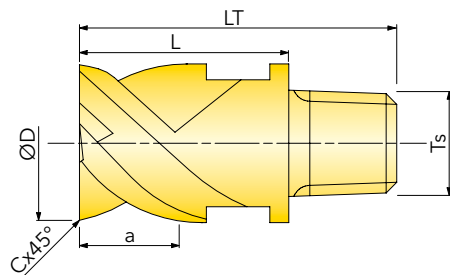
D e8



Designation Réf. de l'article	D	LT	L	a	R	Ts	Z	kg	①
48U08004TQRB20	8	17,1	10	4	2	T5	6	0,007	WS-0043
48U10005T6RB30	10	19,65	13	5	3	T6	6	0,013	WS-0029
48U12007T8RB40	12	24,5	16,5	7	4	T8	6	0,024	WS-0030
48U16009TRRB50	16	32,3	20,5	9	5	T10	6	0,052	WS-0044

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(P/K)
+ + + + ○

D e8

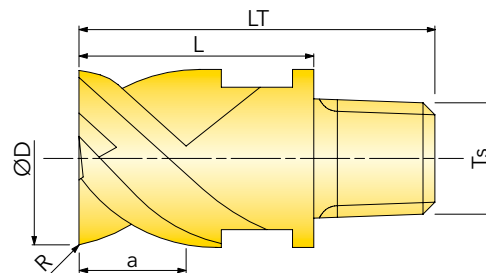


+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	LT	L	a	C	Ts	Z	kg	①
47C08005TQRQ03	8	17,1	10	5	0,3	T5	4	0,006	WS-0043
47C10007T6RQ04	10	19,65	13	7	0,4	T6	4	0,011	WS-0029
47C12009T8RQ05	12	24,5	16,5	9	0,5	T8	4	0,022	WS-0030
47C16012TRRQ06	16	32,3	20,5	12	0,6	T10	4	0,048	WS-0044
47C20015TSRQ06	20	39,3	25,5	15	0,6	T12	4	0,089	WS-0059
47C25022TURQ06	25	54,6	37	22	0,6	T15	4	0,207	WS-0061
unequally spaced / pas décalés									

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)
O + O +

D e8



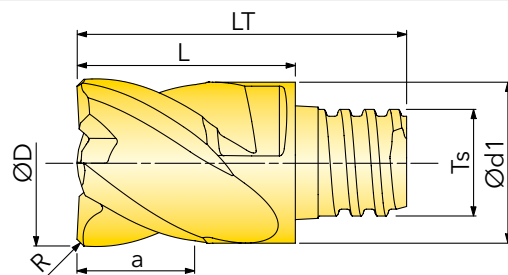
+ Preferred choice / Premier choix O Second choice / Second choix

Designation Réf. de l'article	D	d1	LT	L	a	R	Ts	Z	kg	①
47D08005TQRP0200	8	7,7	17,1	10	5	0,2	T5	4	0,006	WS-0043
47D08005TQRP0800	8	7,7	17,1	10	5	0,8	T5	4	0,006	WS-0043
47D08005TQRP1000	8	7,7	17,1	10	5	1	T5	4	0,006	WS-0043
47D08005TQRP2000	8	7,7	17,1	10	5	2	T5	4	0,006	WS-0043
47D08005TQRP3000	8	7,7	17,1	10	5	3	T5	4	0,006	WS-0043
47D10007T6RP0200	10	9,6	19,65	13	7	0,2	T6	4	0,010	WS-0029
47D10007T6RP0800	10	9,6	19,65	13	7	0,8	T6	4	0,010	WS-0029
47D10007T6RP1000	10	9,6	19,65	13	7	1	T6	4	0,010	WS-0029
47D10007T6RP2000	10	9,6	19,65	13	7	2	T6	4	0,010	WS-0029
47D10007T6RP3000	10	9,6	19,65	13	7	3	T6	4	0,010	WS-0029
47D10007T6RP4000	10	9,6	19,65	13	7	4	T6	4	0,010	WS-0029
47D12009T8RP0200	12	11,7	24,5	16,5	9	0,2	T8	4	0,020	WS-0030
47D12009T8RP0800	12	11,7	24,5	16,5	9	0,8	T8	4	0,020	WS-0030
47D12009T8RP1000	12	11,7	24,5	16,5	9	1	T8	4	0,020	WS-0030
47D12009T8RP2000	12	11,7	24,5	16,5	9	2	T8	4	0,020	WS-0030
47D12009T8RP3000	12	11,7	24,5	16,5	9	3	T8	4	0,020	WS-0030
47D12009T8RP4000	12	11,7	24,5	16,5	9	4	T8	4	0,020	WS-0030
47D16012TRRP0200	16	15,3	32,3	20,5	12	0,2	T10	4	0,020	WS-0044
47D16012TRRP1000	16	15,3	32,3	20,5	12	1	T10	4	0,050	WS-0044
47D16012TRRP2000	16	15,3	32,3	20,5	12	2	T10	4	0,050	WS-0044
47D16012TRRP3000	16	15,3	32,3	20,5	12	3	T10	4	0,050	WS-0044
47D16012TRRP4000	16	15,3	32,3	20,5	12	4	T10	4	0,050	WS-0044
47D16012TRRP5000	16	15,3	32,3	20,5	12	5	T10	4	0,050	WS-0044
47D20015TSRP0200	20	18,3	39,3	25,5	15	0,2	T12	4	0,090	WS-0059
47D20015TSRP1000	20	18,3	39,3	25,5	15	1	T12	4	0,090	WS-0059
47D20015TSRP2000	20	18,3	39,3	25,5	15	2	T12	4	0,090	WS-0059
47D20015TSRP3000	20	18,3	39,3	25,5	15	3	T12	4	0,090	WS-0059
47D20015TSRP4000	20	18,3	39,3	25,5	15	4	T12	4	0,090	WS-0059
47D20015TSRP5000	20	18,3	39,3	25,5	15	5	T12	4	0,090	WS-0059
47D25022TURP0200	25	23,9	54,6	37	22	0,2	T15	4	0,120	WS-0061

Additional radius and tool length on request. / Autres rayons ou longueurs possibles sur demande

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTÈME DE TÊTES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(S) S_(M) H_(PK)
O + O +

D e8



+ Preferred choice / Premier choix O Second choice / Second choix

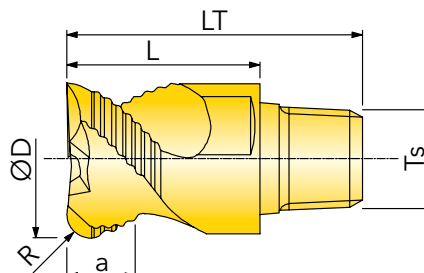
Designation Réf. de l'article	D	d1	LT	L	a	R	Ts	Z	kg	①
47D08005TQRP0201	8	7,7	17,1	10	5	0,2	T5	5	0,006	WS-0043
47D08005TQRP1001	8	7,7	17,1	10	5	1	T5	5	0,006	WS-0043
47D10007T6RP0101	10	9,6	19,65	13	7	0,1	T6	5	0,010	WS-0029
47D10007T6RP1001	10	9,6	19,65	13	7	1	T6	5	0,010	WS-0029
47D10007T6RP2001	10	9,6	19,65	13	7	2	T6	5	0,010	WS-0029
47D12009T8RP0201	12	11,7	24,5	16,5	9	0,2	T8	5	0,020	WS-0030
47D12009T8RP1001	12	11,7	24,5	16,5	9	1	T8	5	0,020	WS-0030
47D12009T8RP2001	12	11,7	24,5	16,5	9	2	T8	5	0,020	WS-0030
47D12009T8RP4001	12	11,7	24,5	16,5	9	4	T8	5	0,020	WS-0030
47D16012TRRP0201	16	15,3	32,3	20,5	12	0,2	T10	5	0,050	WS-0044
47D16012TRRP1001	16	15,3	32,3	20,5	12	1	T10	5	0,050	WS-0044
47D16012TRRP2001	16	15,3	32,3	20,5	12	2	T10	5	0,050	WS-0044
47D16012TRRP4001	16	15,3	32,3	20,5	12	4	T10	5	0,050	WS-0044
47D20015TSRP0201	20	18,3	39,3	25,5	15	0,2	T12	5	0,090	WS-0059
47D20015TSRP1001	20	18,3	39,3	25,5	15	1	T12	5	0,090	WS-0059
47D20015TSRP2001	20	18,3	39,3	25,5	15	2	T12	5	0,090	WS-0059
47D20015TSRP4001	20	18,3	39,3	25,5	15	4	T12	5	0,090	WS-0059
47D25022TURP0201	25	23,9	54,6	37	22	0,2	T15	5	0,120	WS-0061
47D25022TURP1001	25	23,9	54,6	37	22	1	T15	5	0,120	WS-0061
47D25022TURP2001	25	23,9	54,6	37	22	2	T15	5	0,120	WS-0061
47D25022TURP4001	25	23,9	54,6	37	22	4	T15	5	0,120	WS-0061

Additional radius and tool length on request. / Autres rayons et longueurs possibles sur demande

① = Wrench / Clé de serrage

CHIP SURFER ROUGHING CUTTER FOR ALUMINUM FRAISE EBAUCHE POUR ALUMINIUM

FOR EXCHANGEABLE HEAD SYSTEM
 POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance
 IN05S

P M K N_(K) S_(M) H_(PK)
 +

D e8



+ Preferred choice / Premier choix ○ Second choice / Second choix

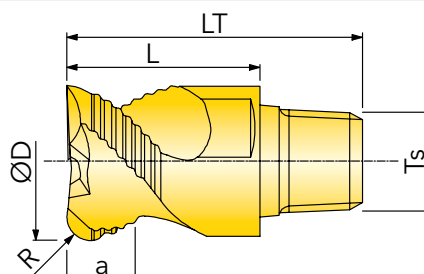
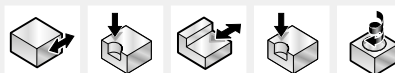
Designation Réf. de l'article	D	LT	L	a	R	Ts	Z	kg	①
46D08005TQRN02	8	17,1	10	5,5	0,2	T5	3	0,006	WS-0043
46D10006T6RN02	10	19,65	13	6,5	0,2	T6	3	0,011	WS-0029
46D12008T8RN02	12	24,5	16,5	8,5	0,2	T8	3	0,021	WS-0030
46D16010TRRN02	16	32,3	20,5	10,7	0,2	T10	3	0,047	WS-0044
46D20012TSRN02	20	39,3	25,5	12,7	0,2	T12	3	0,085	WS-0059

Diamond coating on request / revêtement diamant sur demande

① = Wrench / Clé de serrage

CHIP SURFER ROUGHING CUTTER FOR ALUMINUM FRAISE EBAUCHE POUR ALUMINIUM

FOR EXCHANGEABLE HEAD SYSTEM
 POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance
 IN3305

P M K N_(K) S_(M) H_(PK)
 +

D e8

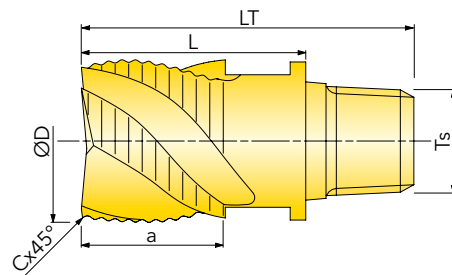


+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	LT	L	a	R	Ts	Z	kg	①
46D08005TQRN02	8	17,1	10	5,5	0,2	T5	3	0,006	WS-0043
46D10006T6RN02	10	19,65	13	6,5	0,2	T6	3	0,011	WS-0029
46D12008T8RN02	12	24,5	16,5	8,5	0,2	T8	3	0,021	WS-0030
46D16010TRRN02	16	32,3	20,5	10,7	0,2	T10	3	0,047	WS-0044
46D20012TSRN02	20	39,3	25,5	12,7	0,2	T12	3	0,085	WS-0059

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N S H
+ + + +

D e8



+ Preferred choice / Premier choix O Second choice / Second choix

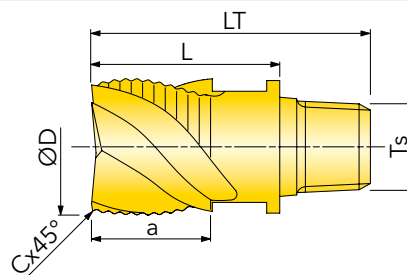
Designation Réf. de l'article	D	LT	L	a	C	Ts	Z	kg	①
47C08005TQRN03	8	17,4	10,3	5	0,3	T5	4	0,006	WS-0043
47C08009TQRN03	8	22,1	15	9	0,3	T5	4	0,008	WS-0043
47C10007T6RN03	10	19,65	13	7	0,35	T6	4	0,012	WS-0029
47C12009T8RN03	12	24,5	16,5	9	0,35	T8	4	0,022	WS-0030
47C12014T8RN03	12	31	23	14	0,35	T8	4	0,029	WS-0030
47C16012TRRN04 ¹⁾	16	32,3	20,5	12	0,4	T10	5	0,049	WS-0044
48C20015TSRN04 ¹⁾	20	39,3	25,5	15	0,4	T12	6	0,097	WS-0059
48C25022TURN05	25	54,6	37	22	0,5	T15	6	0,159	WS-0061

¹⁾no center cut / Pas de coupe au centre

① = Wrench / Clé de serrage

CHIP SURFER ROUGHING AND FINISHING END MILL FRAISE EN BOUT POUR EBAUCHE ET FINITION

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P
M
K
N_(K)
S_(M)
H_(P/K)

+ Preferred choice / Premier choix ○ Second choice / Second choix

D e8

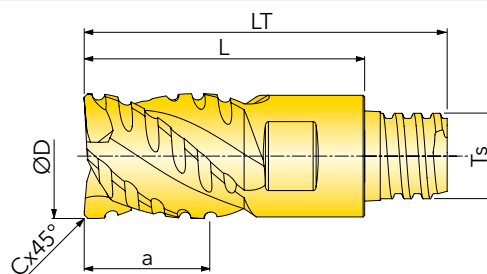
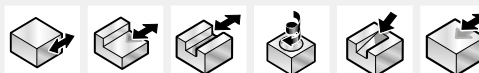


Designation Réf. de l'article	D	LT	L	a	C	Ts	Z	Zs	kg	①
47C08005TQRU03	8	17,1	10	5	0,3	T5	4	2	0,006	WS-0043
47C10007T6RU03	10	19,65	13	7	0,3	T6	4	2	0,013	WS-0029
47C12009T8RU04	12	24,5	16,5	9	0,4	T8	4	2	0,025	WS-0030
47C16012TRRU06	16	32,3	20,5	12	0,6	T10	4	2	0,052	WS-0044
47C20015TSRU06	20	39,3	25,5	15	0,6	T12	4	2	0,096	WS-0059
47C25022TURU06	25	54,6	37	22	0,6	T15	4	2	0,217	WS-0061

① = Wrench / Clé de serrage

CHIP SURFER ROUGHING CUTTER 1,5XD FRAISE D'EBAUCHE SÉRIE LONGUE 1,5 X D

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P
M
K
N_(K)
S_(M)
H_(P/K)

+ Preferred choice / Premier choix ○ Second choice / Second choix

D e8

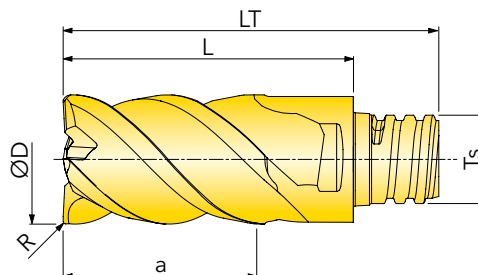
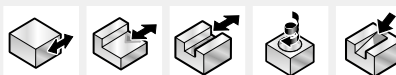


Designation Réf. de l'article	D	LT	L	λ	a	C	Ts	Z			^① 
47C08012TQRN02	8	25,1	18	46	12	0,25	T5	4	5	0,01	WS-0043
47C10015T6RN03	10	28,65	22	46	15	0,30	T6	4	5	0,02	WS-0029
47C12018T8RN03	12	35	27	46	18	0,35	T8	4	5	0,03	WS-0030
47C16024TRRN04	16	45,3	33,5	40	24	0,40	T10	5	5	0,07	WS-0044
48C20030TSRN04	20	54,8	41	47	30	0,40	T12	6	3	0,14	WS-0059
48C25037TURN05	25	70,1	52,5	47	37	0,50	T15	6	3	0,28	WS-0061

① = Wrench / Clé de serrage

CHIPSURFER ROUGHING AND FINITION CUTTER 1,5XD FRAISE D'ÉBAUCHE ET FINITION SÉRIE LONGUE 1,5 X D

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)
 + + + +

D e8



+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation
Réf. de l'article

D LT L a R Ts Z

kg

①

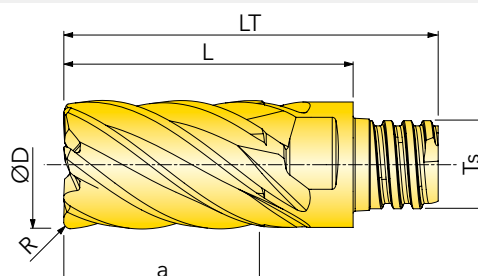


47D08012TQRD05	8	25,1	18	12	0,5	T5	4	3	0,01	WS-0043
47D10015T6RD05	10	28,65	22	15	0,5	T6	4	3	0,02	WS-0029
47D12018T8RD05	12	35	27	18	0,5	T8	4	3	0,03	WS-0030
47D16024TRRD05	16	45,3	33,5	24	0,5	T10	4	1	0,07	WS-0044
47D20030TSRD05	20	54,8	41	30	0,5	T12	4	1	0,14	WS-0059
47D25037TURD05	25	70,1	52,5	37	0,5	T15	4	1	0,28	WS-0061

① = Wrench / Clé de serrage

CHIPSURFER FINISHING CUTTER 1,5XD FRAISE DE FINITION SÉRIE LONGUE 1,5 X D

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)
 + + + +

D e8



+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation
Réf. de l'article

D LT L a R Ts Z

kg

①

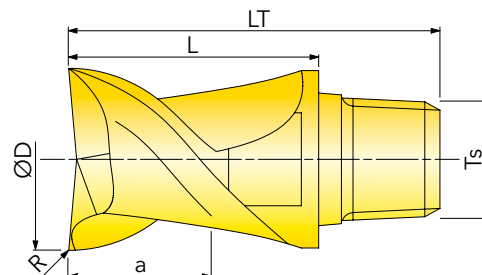
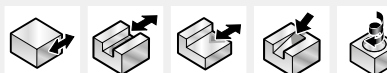


48D08012TQRC05	8	25,1	18	12	0,5	T5	7	0,01	WS-0043
48D10015T6RC05	10	28,65	22	15	0,5	T6	7	0,02	WS-0029
48D12018T8RC05	12	35	27	18	0,5	T8	7	0,03	WS-0030
48D16024TRRC08	16	41,5	33,5	24	0,8	T10	9	0,07	WS-0044
48D20030TSRC10	20	54,8	41	30	1	T12	9	0,14	WS-0059
48D25037TURC10	25	70,1	52,5	37	1	T15	9	0,28	WS-0061

① = Wrench / Clé de serrage

CHIPSURFER END MILL WITH CORNER RADIUS FOR ALUMINUM Z=2 FRAISE EN BOUT RAYONNÉE POUR ALUMINUM Z=2

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN05S

P M K N_(K) S_(M) H_(PK)
 +

D e8



+ Preferred choice / Premier choix O Second choice / Second choix

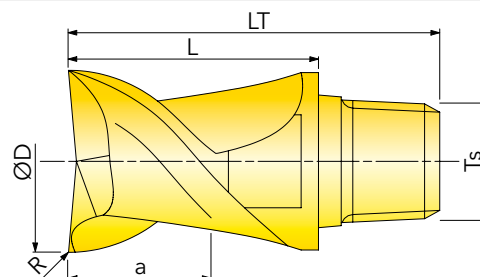
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45D08005TQRD05	8	17,1	10	5	0,5	T5	1	2		0,005	WS-0043
45D08005TQRD0501	8	17,1	10	5	0,5	T5	2	2	✓	0,005	WS-0043
45D10007T6RD05	10	19,65	13	7	0,5	T6	1	2		0,010	WS-0029
45D10007T6RD0501	10	19,65	13	7	0,5	T6	2	2	✓	0,010	WS-0029
45D10007T6RD10	10	19,65	13	7	1	T6	1	2		0,011	WS-0029
45D10007T6RD1001	10	19,65	13	7	1	T6	2	2	✓	0,011	WS-0029
45D12009T8RD05	12	24,5	16,5	9	0,5	T8	1	2		0,020	WS-0030
45D12009T8RD0501	12	24,5	16,5	9	0,5	T8	2	2	✓	0,020	WS-0030
45D12009T8RD10	12	24,5	16,5	9	1	T8	1	2		0,020	WS-0030
45D12009T8RD1001	12	24,5	16,5	9	1	T8	2	2	✓	0,020	WS-0030
45D16012TRRD0501	16	32,3	20,5	12	0,5	T10	2	2	✓	0,040	WS-0044
45D16012TRRD1001	16	32,3	20,5	12	1	T10	2	2	✓	0,040	WS-0044

Diamond coating on request / revêtement diamant sur demande

① = Wrench / Clé de serrage

CHIPSURFER END MILL WITH CORNER RADIUS FOR ALUMINUM Z=2 FRAISE EN BOUT RAYONNÉE POUR ALUMINUM Z=2

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN3305

P

M

K

N_(K)

S_(M)

H_(PK)

D

e8



+ Preferred choice / Premier choix O Second choice / Second choix

Designation

Réf. de l'article

D

LT

L

a

R

Ts

Z



①



45D08005TQRD05

8

17,1

10

5

0,5

T5

2

0,005

WS-0043

45D10007T6RD05

10

19,65

13

7

0,5

T6

2

0,010

WS-0029

45D10007T6RD10

10

19,65

13

7

1

T6

2

0,010

WS-0029

45D12009T8RD05

12

24,5

16,5

9

0,5

T8

2

0,020

WS-0029

45D12009T8RD10

12

24,5

16,5

9

1

T8

2

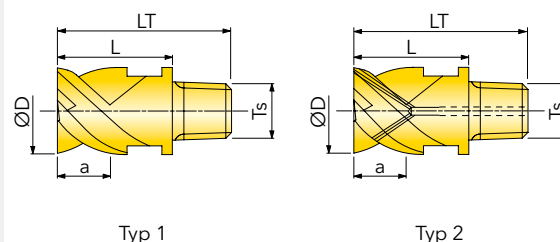
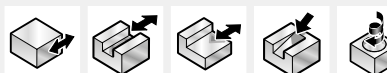
0,020

WS-0029

① = Wrench / Clé de serrage

CHIP SURFER END MILL WITH CORNER RADIUS FOR ALUMINUM Z=3 FRAISE EN BOUT RAYONNÉE POUR ALUMINUM Z=3

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Typ 1

Typ 2

Grade / Nuance

IN05S

P
M
K
N_(K)
S_(M)
H_(PK)

+

D e8



+ Preferred choice / Premier choix ○ Second choice / Second choix

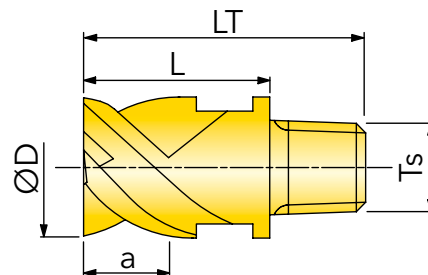
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46D10007T6RD05	10	19,65	13	7	0,5	T6	1	3		0,011	WS-0029
46D10007T6RD10	10	19,65	13	7	1	T6	1	3		0,011	WS-0029
46D12008T8RD05	12	24,5	16,5	8	0,5	T8	1	3		0,022	WS-0030
46D12008T8RD10	12	24,5	16,5	8	1	T8	1	3		0,022	WS-0030
46D12008T8RD30	12	24,5	16,5	8	3	T8	1	3		0,022	WS-0030
46J16010TRRD21	16	32,3	20,5	10	-	T10	1	3		0,047	WS-0044
46D16010TRRD10	16	32,3	20,5	10	1	T10	1	3		0,047	WS-0044
46D16010TRRD20	16	32,3	20,5	10	2	T10	1	3		0,047	WS-0044
46D16010TRRD30	16	32,3	20,5	10	3	T10	1	3		0,046	WS-0044
46D16010TRRD40	16	32,3	20,5	10	4	T10	1	3		0,047	WS-0044
46D20012TSRD05	20	39,3	25,5	12	0,5	T12	1	3		0,086	WS-0059
46D20012TSRD10	20	39,3	25,5	12	1	T12	1	3		0,085	WS-0059
46D20012TSRD20	20	39,3	25,5	12	2	T12	1	3		0,086	WS-0059
46D20012TSRD30	20	39,3	25,5	12	3	T12	1	3		0,085	WS-0059
46D20012TSRD40	20	39,3	25,5	12	4	T12	1	3		0,084	WS-0059
46D08005TQRD0501	8	17,1	10	5	0,5	T5	2	3	✓	0,006	WS-0043
46D10007T6RD0501	10	19,65	13	7	0,5	T6	2	3	✓	0,011	WS-0029
46D10007T6RD1001	10	19,65	13	7	1	T6	2	3	✓	0,011	WS-0029
46D12008T8RD0501	12	24,5	16,5	8	0,5	T8	2	3	✓	0,022	WS-0030
46D12008T8RD1001	12	24,5	16,5	8	1	T8	2	3	✓	0,022	WS-0030
46D12008T8RD3001	12	24,5	16,5	8	3	T8	2	3	✓	0,022	WS-0030
46J16010TRRD2101	16	32,3	20,5	10	-	T10	2	3	✓	0,047	WS-0044
46D16010TRRD1001	16	32,3	20,5	10	1	T10	2	3	✓	0,047	WS-0044
46D16010TRRD2001	16	32,3	20,5	10	2	T10	2	3	✓	0,047	WS-0044
46D16010TRRD3001	16	32,3	20,5	10	3	T10	2	3	✓	0,047	WS-0044
46D16010TRRD4001	16	32,3	20,5	10	4	T10	2	3	✓	0,047	WS-0044
46D20012TSRD0501	20	39,3	25,5	12	0,5	T12	2	3	✓	0,086	WS-0059
46D20012TSRD1001	20	39,3	25,5	12	1	T12	2	3	✓	0,086	WS-0059
46D20012TSRD2001	20	39,3	25,5	12	2	T12	2	3	✓	0,086	WS-0059
46D20012TSRD3001	20	39,3	25,5	12	3	T12	2	3	✓	0,086	WS-0059
46D20012TSRD4001	20	39,3	25,5	12	4	T12	2	3	✓	0,086	WS-0059

Diamond coating on request / revêtement diamant sur demande

① = Wrench / Clé de serrage

CHIPSURFER END MILL WITH CORNER RADIUS FOR ALUMINUM Z=3 FRAISE EN BOUT RAYONNEE POUR ALUMINUM Z=3

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN3305

P M K N_(K) S_(M) H_(PK)

D e8



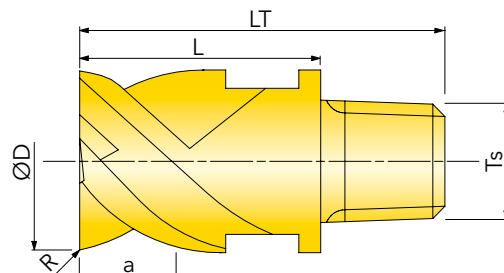
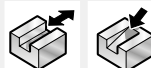
+ Preferred choice / Premier choix O Second choice / Second choix

Designation Réf. de l'article	D	LT	L	a	R	Ts	Z	kg	①
46D08005TQRD05	8	17,1	10	5	0,5	T5	3	0,006	WS-0043
46D10007T6RD05	10	19,65	13	7	0,5	T6	3	0,011	WS-0029
46D10007T6RD10	10	19,65	13	7	1	T6	3	0,011	WS-0029
46D12008T8RD05	12	24,5	16,5	8	0,5	T8	3	0,022	WS-0030
46D12008T8RD10	12	24,5	16,5	8	1	T8	3	0,022	WS-0030
46D12008T8RD30	12	24,5	16,5	8	3	T8	3	0,022	WS-0030
46J16010TRRD21	16	32,3	20,5	10	-	T10	3	0,047	WS-0044
46D16010TRRD10	16	32,3	20,5	10	1	T10	3	0,047	WS-0044
46D16010TRRD20	16	32,3	20,5	10	2	T10	3	0,047	WS-0044
46D16010TRRD30	16	32,3	20,5	10	3	T10	3	0,046	WS-0044
46D16010TRRD40	16	32,3	20,5	10	4	T10	3	0,047	WS-0044
46D20012TSRD05	20	39,3	25,5	12	0,5	T12	3	0,086	WS-0059
46D20012TSRD10	20	39,3	25,5	12	1	T12	3	0,085	WS-0059
46D20012TSRD20	20	39,3	25,5	12	2	T12	3	0,086	WS-0059
46D20012TSRD30	20	39,3	25,5	12	3	T12	3	0,085	WS-0059
46D20012TSRD40	20	39,3	25,5	12	4	T12	3	0,084	WS-0059

① = Wrench / Clé de serrage

CHIP SURFER UNDERSIZE END MILL FRAISE EN BOUT SOUS COTÉE

FOR EXCHANGEABLE HEAD SYSTEM
 POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P
M
K
N_(K)
S_(M)
H_(P/K)

+ Preferred choice / Premier choix O Second choice / Second choix

D e8



Designation

Réf. de l'article

D LT L a R Ts Z

kg

①

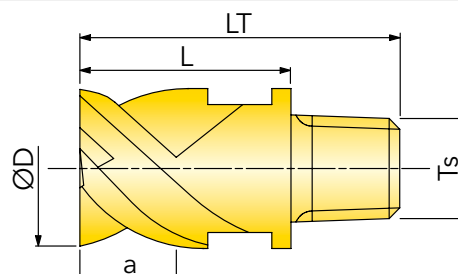


46D07704TQRC02	7,7	17,1	10	4	0,2	T5	3	0,006	WS-0043
46D09705T6RC03	9,7	19,65	13	5	0,3	T6	3	0,010	WS-0029
46D11707T8RC03	11,7	24,5	16,5	7	0,3	T8	3	0,022	WS-0030
46D15708TRRC03	15,7	32,3	20,5	8	0,3	T10	3	0,049	WS-0044
46D19712TSRC04	19,7	39,3	25,5	12	0,4	T12	3	0,090	WS-0059

① = Wrench / Clé de serrage

CHIP SURFER END MILL Z=3 FRAISE EN BOUT À 3 DENTS

FOR EXCHANGEABLE HEAD SYSTEM
 POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P
M
K
N_(K)
S_(M)
H_(P/K)

+ Preferred choice / Premier choix O Second choice / Second choix

D e8



Designation

Réf. de l'article

D LT L a Ts Z

kg

①

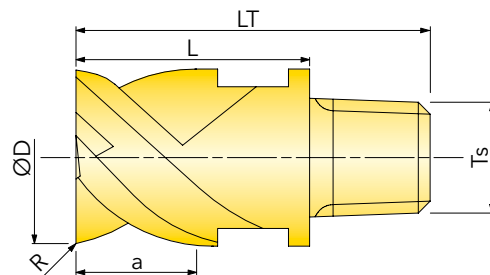
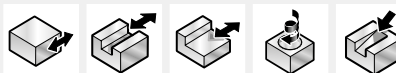


46J08005TQRD10	8	17,1	10	5	T5	3	0,006	WS-0043
46J10007T6RD13	10	19,65	13	7	T6	3	0,012	WS-0029
46J10012T6RD19	10	25,65	19	12	T6	3	0,016	WS-0029
46J12009T8RD17	12	24,5	16,5	9	T8	3	0,023	WS-0030
46J16012TRRD21	16	32,3	20,5	12	T10	3	0,049	WS-0044

① = Wrench / Clé de serrage

CHIPSURFER END MILL WITH CORNER RADIUS 30° FRAISE EN BOUT RAYONNÉE À 30°

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(S) S_(M) H_(PK)

+ + + + + ○

D e8

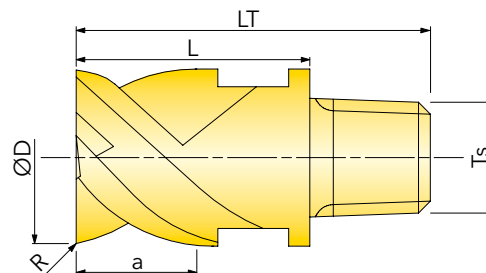
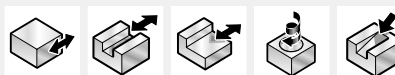


+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	LT	L	a	R	Ts	Z	kg	①
47C11008T6RB02	11	23,15	16,5	8,4	-	T6	4	0,031	WS-0029
47D12009T8RB05	12	24,5	16,5	9	0,5	T8	4	0,024	WS-0030
47D12009T8RB10	12	24,5	16,5	9	1	T8	4	0,023	WS-0030
47C14011T8RB02	14	36	28	11,5	-	T8	4	0,037	WS-0030
47D16012TRRB05	16	32,3	20,5	12	0,5	T10	4	0,052	WS-0044
47D16012TRRB10	16	32,3	20,5	12	1	T10	4	0,052	WS-0044
47D16012TRRB15	16	32,3	20,5	12	1,5	T10	4	0,052	WS-0044
47D16012TRRB20	16	32,3	20,5	12	2	T10	4	0,052	WS-0044
47D16012TRRB30	16	32,3	20,5	12	3	T10	4	0,052	WS-0044
47D20015TSRB05	20	39,3	25,5	15	0,5	T12	4	0,097	WS-0059
47D20015TSRB10	20	39,3	25,5	15	1	T12	4	0,096	WS-0059
47D20015TSRB20	20	39,3	25,5	15	2	T12	4	0,096	WS-0059
47D20015TSRB30	20	39,3	25,5	15	3	T12	4	0,096	WS-0059

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)
+ + + + ○

D e8



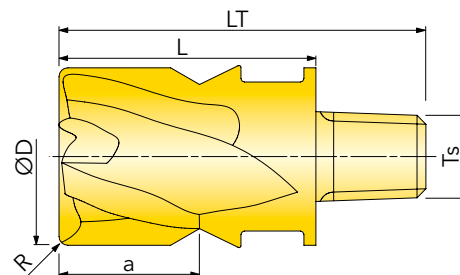
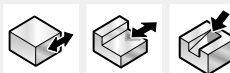
+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	LT	L	a	R	Ts	Z	kg	①
47J06005TQRD10	6	17,1	10	5,5	-	T5	4	0,005	WS-0043
47J08005TQRD10	8	17,1	10	5	-	T5	4	0,006	WS-0043
47D08005TQRD05	8	17,1	10	5	0,5	T5	4	0,006	WS-0043
47D08005TQRD10	8	17,1	10	5	1	T5	4	0,006	WS-0043
47D08005TQRD15	8	17,1	10	5	1,5	T5	4	0,006	WS-0043
47J10007T6RD13	10	19,65	13	7	-	T6	4	0,013	WS-0029
47D10007T6RD05	10	19,65	13	7	0,5	T6	4	0,012	WS-0029
47D10007T6RD10	10	19,65	13	7	1	T6	4	0,013	WS-0029
47J12009T8RD17	12	24,5	16,5	9	-	T8	4	0,024	WS-0030
47D12009T8RD05	12	24,5	16,5	9	0,5	T8	4	0,023	WS-0030
47D12009T8RD10	12	24,5	16,5	9	1	T8	4	0,024	WS-0030
47J16012TRRD21	16	32,3	20,5	12	-	T10	4	0,052	WS-0044
47D16012TRRD05	16	32,3	20,5	12	0,5	T10	4	0,052	WS-0044
47D16012TRRD10	16	32,3	20,5	12	1	T10	4	0,052	WS-0044
47D16012TRRD15	16	32,3	20,5	12	1,5	T10	4	0,051	WS-0044
47D16012TRRD20	16	32,3	20,5	12	2	T10	4	0,051	WS-0044
47D16012TRRD30	16	32,3	20,5	12	3	T10	4	0,052	WS-0044
47J20015TSRD26	20	39,3	25,5	15	-	T12	4	0,097	WS-0059

① = Wrench / Clé de serrage

CHIPSURFER FINISHING CUTTER WITH CORNER RADIUS 30° FRAISE DE FINITION RAYONNÉE À 30°

FOR EXCHANGEABLE HEAD SYSTEM
 POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P
M
K
N_(K)
S_(M)
H_(PK)

+ Preferred choice / Premier choix ○ Second choice / Second choix

D e8



Designation
 Réf. de l'article

D LT L a R Ts Z



①

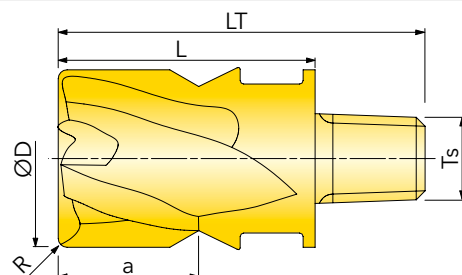
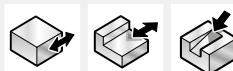


Designation Réf. de l'article	D	LT	L	a	R	Ts	Z	kg	①
48D10007T6RB05	10	19,65	13	7	0,5	T6	6	0,013	WS-0029
48D10007T6RB10	10	19,65	13	7	1	T6	6	0,013	WS-0029
48D10007T6RB15	10	19,65	13	7	1,5	T6	6	0,013	WS-0029
48D12009T8RB05	12	24,5	16,5	9	0,5	T8	6	0,025	WS-0030
48D12009T8RB10	12	24,5	16,5	9	1	T8	6	0,025	WS-0030
48D16012TRRB05	16	32,3	20,5	12	0,5	T10	8	0,055	WS-0044
48D16012TRRB10	16	32,3	20,5	12	1	T10	8	0,055	WS-0044
48D16012TRRB16	16	32,3	20,5	12	1,6	T10	8	0,054	WS-0044
48D16012TRRB20	16	32,3	20,5	12	2	T10	8	0,055	WS-0044
49D20015TSRB10	20	39,3	25,5	15	1	T12	10	0,108	WS-0059
49D20015TSRB20	20	39,3	25,5	15	2	T12	10	0,107	WS-0059

① = Wrench / Clé de serrage

CHIPSURFER FINISHING CUTTER WITH CORNER RADIUS 45° FRAISE DE FINITION RAYONNEE A 45°

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P
M
K
N_(K)
S_(M)
H_(PIK)

+ Preferred choice / Premier choix ○ Second choice / Second choix

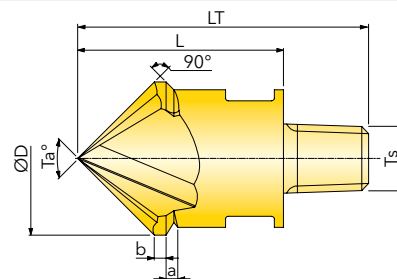
D e8



Designation Réf. de l'article	D	LT	L	a	R	Ts	Z	kg	①
48D08005TQRD05	8	17,1	10	5	0,5	T5	6	0,007	WS-0043
48D08005TQRD10	8	17,1	10	5	1	T5	6	0,007	WS-0043
48D08005TQRD15	8	17,1	10	5	1,5	T5	6	0,007	WS-0043
48J10007T6RD13	10	19,65	13	7	-	T6	6	0,013	WS-0029
48D10007T6RD05	10	19,65	13	7	0,5	T6	6	0,013	WS-0029
48D10007T6RD10	10	19,65	13	7	1	T6	6	0,013	WS-0029
48D10007T6RD15	10	19,65	13	7	1,5	T6	6	0,015	WS-0029
48J12009T8RD17	12	24,5	16,5	9	-	T8	6	0,025	WS-0030
48D12009T8RD05	12	24,5	16,5	9	0,5	T8	6	0,025	WS-0030
48D12009T8RD10	12	24,5	16,5	9	1	T8	6	0,025	WS-0030
48D12009T8RD15	12	24,5	16,5	9	1,5	T8	6	0,025	WS-0030

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)
+ + + ○ + ○

D h9



+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation
Réf. de l'article

D LT L Ta a b Ts Z



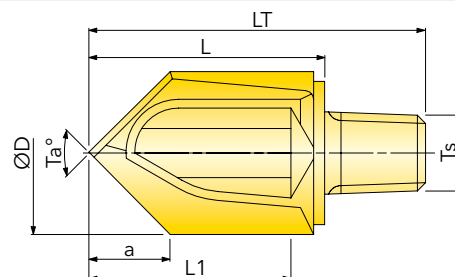
①



46N09409TQRA45	9,4	19,6	12,5	90	0,9	1	T5	3	0,007	WS-0043
45N09809TQRA45	9,8	17,9	10,8	90	0,9	2,5	T5	2	0,006	WS-0043
46N11610T6RA45	11,6	23,15	16,5	90	1	1	T6	3	0,014	WS-0029
45N11814T6RA45	11,8	18,65	12	90	1,1	2	T6	2	0,009	WS-0030
45N15722T8RA45	15,7	22	14	90	2,2	2	T8	2	0,016	WS-0044

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)
+ + + ○ + ○

D z9

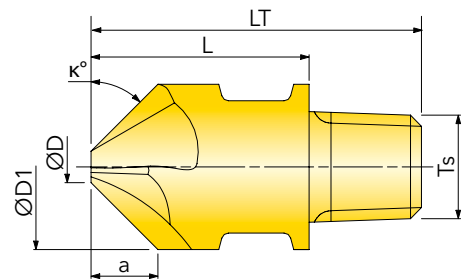


+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	LT	L	L1	Ta	a	Ts	Z	kg	①
45N08007TQRA45	8	16,85	9,75	7	90	3,7	T5	2	0,005	WS-0043
45N08307TQRA45	8,3	17,1	10	7,5	90	3,8	T5	2	0,005	WS-0043
45M10009T6RA30	10	18,4	11,75	9,5	60	7,8	T6	2	0,007	WS-0029
45N10010T6RA45	10	20,65	14,0	10,1	90	4,5	T6	2	0,009	WS-0029
45P10009T6RA60	10	19,35	12,7	9,5	120	2,7	T6	2	0,009	WS-0029
45N10409T6RA45	10,4	18,4	11,75	9	90	4,7	T6	2	0,009	WS-0029
45M12012T8RA30	12	23,2	15,2	12	60	9,3	T8	2	0,014	WS-0030
45N12012T8RA45	12	23,5	15,5	12	90	5,5	T8	2	0,016	WS-0030
45P12012T8RA60	12	23,2	15,2	12	120	3,5	T8	2	0,016	WS-0030
45N12412T8RA45	12,4	23,5	15,5	12	90	5,7	T8	2	0,016	WS-0030
45M16015TRRA30	16	32,1	20,3	15	60	12,7	T10	2	0,032	WS-0044
45N16016TRRA45	16	31,8	20,0	15,7	90	7,4	T10	2	0,037	WS-0044
45P16015TRRA60	16	31,7	19,9	15,5	120	4,4	T10	2	0,037	WS-0044
45N16515TRRA45	16,5	30,6	18,8	15	90	7,5	T10	2	0,034	WS-0044
45M20018TSRA30	20	38,5	24,7	18,5	60	15,5	T12	2	0,055	WS-0059
45N20018TSRA45	20	38,5	24,7	18,5	90	7,7	T12	2	0,058	WS-0059
45P20018TSRA60	20	34,9	21,1	14,9	120	5,9	T12	2	0,056	WS-0059

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(S) S_(M) H_(PK)
+ + + ○ + ○

D e8



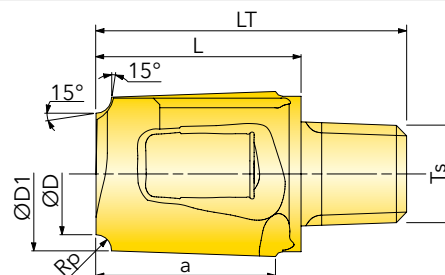
+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	D1	LT	L	k°	a	Ts	Z	kg	①
47N10002T6RA30	2	10	19,65	13	30	2,3	T6	4	0,014	WS-0029
47N12002T8RA30	2	12	24,5	16,5	30	2,9	T8	4	0,027	WS-0030
48N16003TRRA30	3	16	32,3	20,5	30	3,7	T10	6	0,061	WS-0044
48N20004TSRA30	5	20	39,3	25,5	30	4,3	T12	6	0,113	WS-0059
47N10004T6RA45	1,95	10	19,65	13	45	4	T6	4	0,013	WS-0029
47N12005T8RA45	1,95	12	24,5	16,5	45	5	T8	4	0,025	WS-0030
48N16006TRRA45	3	16	32,3	20,5	45	6,5	T10	6	0,056	WS-0044
48N20007TSRA45	5	20	39,3	25,5	45	7,5	T12	6	0,106	WS-0059
47N25010TURA45	5	25	42,6	25	45	10	T15	6	0,160	WS-0061
47N10007T6RA60	1,6	10	19,65	13	60	7,3	T6	4	0,010	WS-0029
47N12007T8RA60	3	12	24,5	16,5	60	7,8	T8	4	0,020	WS-0030
48N16010TRRA60	4	16	32,3	20,5	60	10	T10	6	0,047	WS-0044
48N20013TSRA60	5	20	39,3	25,5	60	13	T12	6	0,086	WS-0059

① = Wrench / Clé de serrage

CHIP SURFER CONCAVE RADIUS MILLING CUTTER Z=2 FRAISE RAYONNEE "CONCAVE" Z=2

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)
 + + + ○ + ○

+ Preferred choice / Premier choix ○ Second choice / Second choix

D h10

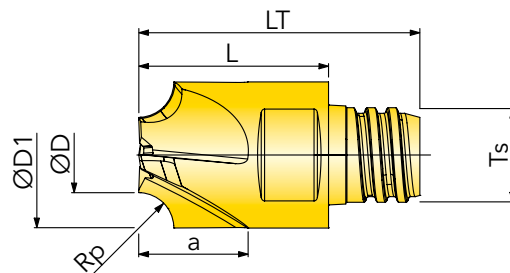


Designation Réf. de l'article	D	D1	LT	L	a	Rp	Ts	Z	kg	①
45R08007TQRA10	5,8	8	17,7	10,6	7,5	1	T5	2	0,005	WS-0043
45R10009T6RA16	6,8	10	19,15	12,5	9,5	1,6	T6	2	0,010	WS-0029
45R10009T6RA20	6	10	19,15	12,5	9,5	2	T6	2	0,009	WS-0029
45R10009T6RA25	5,1	10	19,15	12,5	9,5	2,5	T6	2	0,009	WS-0029
45R12012T8RA30	6,5	12,7	23,6	15,6	12	3	T8	2	0,018	WS-0030
45R12012T8RA40	4,7	12,7	23,6	15,6	12	4	T8	2	0,017	WS-0030
45R16015TRRA50	6,2	16	30,9	19,1	15	5	T10	2	0,035	WS-0044
45R20007TSRA60	8	20	31,2	17,4	7	6	T12	2	0,050	WS-0059

① = Wrench / Clé de serrage

CHIP SURFER CONCAVE RADIUS MILLING CUTTER Z=4 FRAISE RAYONNEE "CONCAVE" Z=4

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)
 + + + + +

+ Preferred choice / Premier choix ○ Second choice / Second choix

D h7

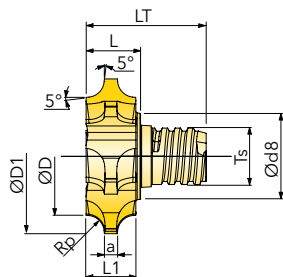


Designation Réf. de l'article	D	D1	LT	L	a	Rp	Ts	Z	kg	①
47R08001TQRA10	5,8	8	17,7	10	1	1	T5	4	0,008	WS-0043
47R10001T6RA16	6,8	10	19,15	13	1,6	1,6	T6	4	0,015	WS-0029
47R10002T6RA20	6	10	19,15	13	2	2	T6	4	0,015	WS-0029
47R10002T6RA25	5,1	10	19,15	13	2,5	2,5	T6	4	0,013	WS-0029
47R12703T8RA30	6,5	12,7	23,6	16,5	3	3	T8	4	0,024	WS-0030

① = Wrench / Clé de serrage

CHIPSURFER CONCAVE RADIUS MILLING CUTTER Z=6 FRAISE RAYONNEE "CONCAVE" Z=6

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)

+ Preferred choice / Premier choix ○ Second choice / Second choix

D h10



Designation
Réf. de l'article

D D1 d8 LT L L1 a Rp Ts Z

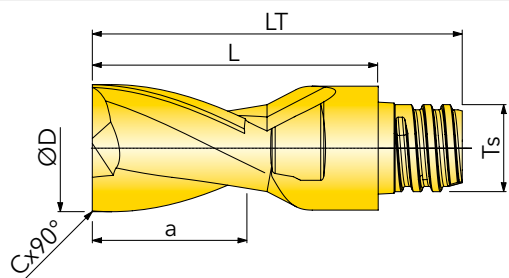


18S27756TRRP10	24,8	27,7	15,3	17,8	6	5,6	2,7	1	T10	6	DS-T40L
18S27773TRRP20	22,9	27,7	15,3	19,5	7,7	7,3	2,6	2	T10	6	DS-T40L
18S27789TRRP30	21,1	27,7	15,3	21,5	9,7	8,9	2,3	3	T10	6	DS-T40L
18S27799TRRP40	19,7	27,7	15,3	23,5	11,7	10,9	2,3	4	T10	6	DS-T40L

① = Screw driver / Tournevis

CHIPSURFER 90° FLAT DRILL HEAT 90° FRAISE A LAMER ET PERCER

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)

+ Preferred choice / Premier choix ○ Second choice / Second choix

D h7



Designation
Réf. de l'article

D LT L λ a R C Ts Z

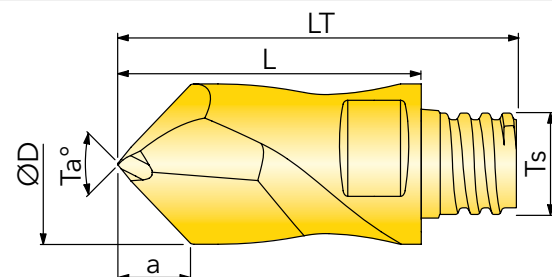
kg



CND0800TQR01	8	25,1	18	30	10	0	0	T5	2	0,009	WS-0043
CND1000T6R01	10	28,65	22	30	12	0	0	T6	2	0,015	WS-0029
CND1200T8R01	12	35	27	30	15	0	0	T8	2	0,027	WS-0030
CND1600TRR01	16	41,5	33,5	30	20	0	0	T10	2	0,061	WS-0044
CND2000TSR01	20	52,5	41	30	25	0	0	T12	2	0,110	WS-0059

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(P/K)
+ + + + +

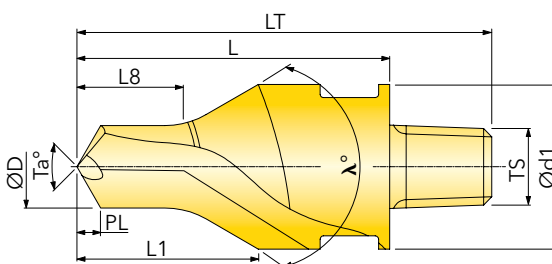
+ Preferred choice / Premier choix ○ Second choice / Second choix



Designation Réf. de l'article	D	LT	L	Ta	a	Ts	Z	kg	①
45Z08004TQRA45	8	22,1	15	90	5	T5	2	0,005	WS-0044
45Z10005TQRA45	10	26,1	19	90	5	T6	2	0,013	WS-0029
45Z12006T6RA45	12	29,65	23	90	6	T8	2	0,022	WS-0030
45Z16008TRRA45	16	39,8	28	90	8	T10	2	0,048	WS-0044

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(P/K)
+ + + ○ +

+ Preferred choice / Premier choix ○ Second choice / Second choix

D z9

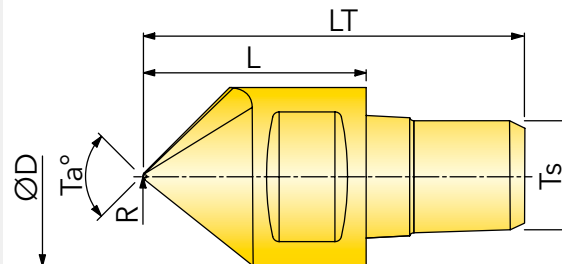


Designation Réf. de l'article	D	d1	LT	L	L1	L7	L8	PL	λ	Ta	Ts	Z	kg	①
45Z03208TQRA15	3,28	8	22,1	15	8	3,75	4,6	0,85	59,5	120	T5	2	0,006	WS-0043
45Z04111T6RA19	4,12	10	25,65	19	11	4,83	5,9	1,07	59,5	120	T6	2	0,012	WS-0029
45Z05113T8RA23	5,13	12	31	23	13	5,88	7,2	1,32	59,5	120	T8	2	0,022	WS-0030
45Z06517TRRA28	6,46	16	39,8	28	17	7,25	8,9	1,65	59,5	120	T10	2	0,045	WS-0044

① = Wrench / Clé de serrage

CHIPSURFER ENGRAVING CUTTER 45°/60°/90° FRAISE POUR GRAVURE 45°/60°/90°

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)
+ + + + + ○

+ Preferred choice / Premier choix ○ Second choice / Second choix



Designation

Réf. de l'article

D LT L Ta R Ts Z



①



45Q00810TQRA22

8 17,1 10 45 0,2 T5 2

0,009

WS-0043

45Q00810TQRA30

8 17,1 10 60 0,2 T5 2

0,005

WS-0043

45Q00810TQRA45

8 17,1 10 90 0,2 T5 2

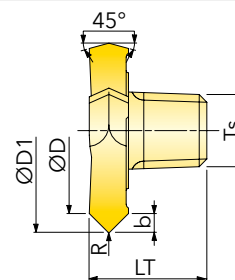
0,006

WS-0043

① = Wrench / Clé de serrage

CHIPSURFER SLOT MILL FOR CHAMFERING 45° Z=3 FRAISE A CHANFREINER "45°" A 3 DENTS

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)
+ + + + + ○

+ Preferred choice / Premier choix ○ Second choice / Second choix

D ± 0,03



Designation

Réf. de l'article

D D1 LT b R Ts Z



①



16N17734T6RK14

14,9 17,7 6,65 1,4 0,1 T6 3

0,007

DS-T25T

16N17734T6RP14

14,9 17,7 6,65 1,4 0,1 T6 3

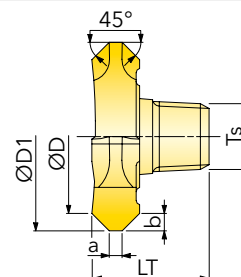
0,007

DS-T25T

① = Screw driver / Tournevis

CHIPSURFER SLOT MILL FOR CHAMFERING 45° Z=4 FRAISE À CHANFREINER "45°" À 4 DENTS

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(P/K)
 + + + + + ○

+ Preferred choice / Premier choix ○ Second choice / Second choix

D ±0,03



Designation

Réf. de l'article

D D1 LT a b Ts Z

kg

①



17N21755T8RK17

18,3 21,7 8 1,5 1,7 T8 4

0,020

DS-T30T

17N21755T8RP17

18,3 21,7 8 1,5 1,7 T8 4

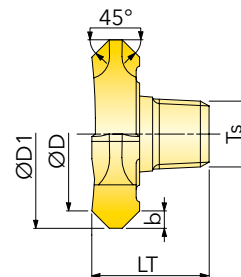
0,020

DS-T30T

① = Screw driver / Tournevis

CHIPSURFER SLOT MILL FOR CHAMFERING 45° Z=4 (18N) FRAISE À CHANFREINER "45°" À 4 DENTS (18N)

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(P/K)
 + + + + + ○

+ Preferred choice / Premier choix ○ Second choice / Second choix

D ±0,03



Designation

Réf. de l'article

D D1 LT b Ts Z

kg

①



18N27798TRRK40

19,7 27,7 11,8 4,0 T10 4

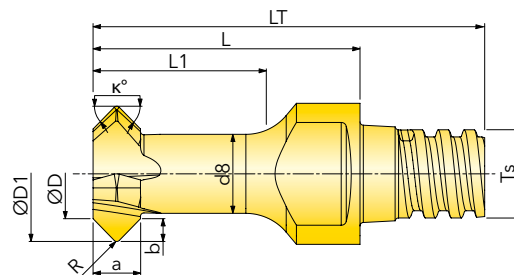
0,056

DS-T40L

① = Screw driver / Tournevis

CHIPSURFER SLOT MILL FOR CHAMFERING Z=4 FRAISE À CHANFREINER PAR INTERPOLATION Z=4

FOR EXCHANGEABLE HEAD SYSTEM
 POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)
 + + + ○ + ○

+ Preferred choice / Premier choix ○ Second choice / Second choix



Designation
 Réf. de l'article

17N07727TQRK12

D 5,3 D1 7,7 d8 4,5 LT 22,3 L 15,2 L1 10,3 κ 45 a 2,7 b 1,2 R 0,2 Ts T5 Z 4

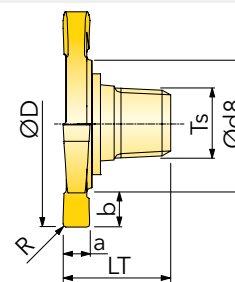


0,007 WS-0043

① = Wrench / Clé de serrage

CHIPSURFER T-SLOT CUTTER FOR O-RING GROOVES Z=3 (16R) FRAISE 3 TAILLES POUR RAINURES DE CIRCLIPS Z=3 (16R)

FOR EXCHANGEABLE HEAD SYSTEM
 POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)
 + + + + + ○

+ Preferred choice / Premier choix ○ Second choice / Second choix

D ±0,03



Designation
 Réf. de l'article

16R15722T6RP11

D 15,7 D min. 16,0 d8 10 LT 6,65 a 2,2 b 2,8 R 1,1 Ts T6 Z 3



0,006 DS-T20T

16R17712T6RP06

D 17,7 D min. 18,0 d8 10 LT 6,65 a 1,2 b 3,8 R 0,6 Ts T6 Z 3

0,005 DS-T20T

16R17720T6RN10

D 17,7 D min. 18,0 d8 10 LT 6,65 a 2 b 3,8 R 1,0 Ts T6 Z 3

0,006 DS-T20T

16R17722T6RP11

D 17,7 D min. 18,0 d8 10 LT 6,65 a 2,2 b 3,8 R 1,1 Ts T6 Z 3

0,006 DS-T20T

16R17730T6RP15

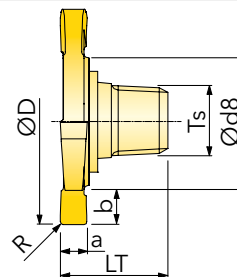
D 17,7 D min. 18,0 d8 10 LT 6,65 a 3 b 3,8 R 1,5 Ts T6 Z 3

0,008 DS-T25T

① = Screw driver / Tournevis

CHIP SURFER T-SLOT CUTTER FOR O-RING GROOVES Z=3 FRAISE 3 TAILLES POUR RAINURES DE CIRCLIPS Z=3

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P
M
K
N_(K)
S_(M)
H_(PK)

+ Preferred choice / Premier choix O Second choice / Second choix

D ±0,03

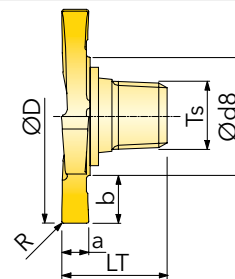


Designation Réf. de l'article	D	D min.	d8	LT	a	b	R	Ts	Z	kg	①
16T15715T6RK01	15,7	16	10	6,65	1,5	2,8	0,1	T6	3	0,005	DS-T20T
16T15715T6RP01	15,7	16	10	6,65	1,5	2,8	0,1	T6	3	0,005	DS-T20T
16T15715T6RK02	15,7	16	10	6,65	1,57	2,8	0,2	T6	3	0,005	DS-T20T
16T15720T6RK02	15,7	16	10	6,65	2	2,8	0,2	T6	3	0,006	DS-T20T
16T15724T6RK02	15,7	16	10	6,65	2,39	2,8	0,2	T6	3	0,006	DS-T25T
16T15725T6RK02	15,7	16	10	6,65	2,5	2,8	0,2	T6	3	0,006	DS-T25T
16T15730T6RK02	15,7	16	10	6,65	3	2,8	0,2	T6	3	0,007	DS-T25T
16T15730T6RP02	15,7	16	10	6,65	3	2,8	0,2	T6	3	0,007	DS-T25T
16T15731T6RK02	15,7	16	10	6,65	3,17	2,8	0,2	T6	3	0,007	DS-T25T
16T17712T6RK00	17,7	18	10	6,65	1,2	3,8	0,05	T6	3	0,005	DS-T20T
16T17714T6RK00	17,7	18	10	6,65	1,4	3,8	0,05	T6	3	0,005	DS-T20T
16T17715T6RK01	17,7	18	10	6,65	1,5	3,8	0,1	T6	3	0,005	DS-T20T
16T17715T6RK02	17,7	18	10	6,65	1,57	3,8	0,2	T6	3	0,006	DS-T20T
16T17717T6RK00	17,7	18	10	6,65	1,7	3,8	0,05	T6	3	0,006	DS-T20T
16T17720T6RK02	17,7	18	10	6,65	2	3,8	0,2	T6	3	0,006	DS-T20T
16T17723T6RK02	17,7	18	10	6,65	2,39	3,8	0,2	T6	3	0,007	DS-T20T
16T17725T6RK02	17,7	18	10	6,65	2,5	3,8	0,2	T6	3	0,007	DS-T20T
16T17730T6RK02	17,7	18	10	6,65	3	3,8	0,2	T6	3	0,008	DS-T25T
16T17731T6RK02	17,7	18	10	6,65	3,17	3,8	0,2	T6	3	0,008	DS-T25T

① = Screw driver / Tournevis

CHIPSURFER T-SLOT CUTTER FOR O-RING GROOVES Z=4 (17R)
 FRAISE 3 TAILLES POUR RAINURES DE CIRCLIPS Z=4 (17R)

FOR EXCHANGEABLE HEAD SYSTEM
 POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance
 IN2005

P M K N_(K) S_(M) H_(P/K)
 + + + + + ○

D ±0,03



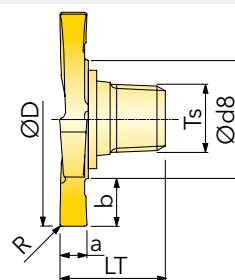
+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	d8	LT	a	b	R	Ts	Z	kg	①
17R21740T8RP20	21,7	12,7	8	4	4,5	2	T8	4	0,016	DS-T30T
17R21760T8RK30	21,7	12,7	8	6	4,5	3	T8	4	0,020	DS-T30T

① = Screw driver / Tournevis

CHIP SURFER T-SLOT CUTTER FOR O-RING GROOVES Z=4 FRAISE 3 TAILLES POUR RAINURES DE CIRCLIPS Z=4

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P
M
K
N_(K)
S_(M)
H_(PK)

+ Preferred choice / Premier choix O Second choice / Second choix

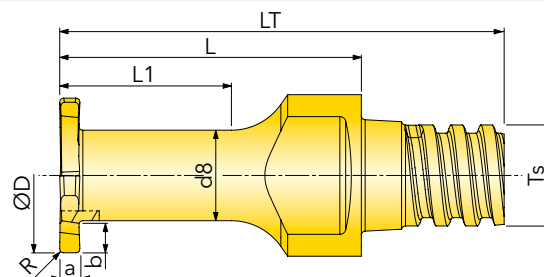
D ±0,03



Designation Réf. de l'article	D	d8	LT	a	b	R	Ts	Z	kg	①
17T21707T8RK00	21,7	18,7	8	0,76	1,5	-	T8	4	0,009	DS-T25T
17T21708T8RK00	21,7	18,3	8	0,86	1,7	-	T8	4	0,009	DS-T25T
17T21709T8RK00	21,7	17,9	8	0,96	1,9	-	T8	4	0,009	DS-T25T
17T21710T8RK00	21,7	17,7	8	1	2	0,05	T8	4	0,009	DS-T25T
17T21712T8RK00	21,7	12,7	8	1,2	4,5	0,05	T8	4	0,009	DS-T25T
17T21714T8RK00	21,7	12,7	8	1,4	4,5	0,05	T8	4	0,009	DS-T25T
17T21715T8RK00	21,7	12,7	8	1,57	4,5	-	T8	4	0,009	DS-T25T
17T21717T8RK01	21,7	12,7	8	1,7	4,5	0,1	T8	4	0,009	DS-T25T
17T21719T8RK02	21,7	12,7	8	1,95	4,5	0,2	T8	4	0,010	DS-T25T
17T21720T8RK02	21,7	12,7	8	2	4,5	0,2	T8	4	0,005	DS-T25T
17T21722T8RK02	21,7	12,7	8	2,25	4,5	0,2	T8	4	0,012	DS-T25T
17T21723T8RK02	21,7	12,7	8	2,39	4,5	0,2	T8	4	0,012	DS-T25T
17T21725T8RK02	21,7	12,7	8	2,5	4,5	0,2	T8	4	0,012	DS-T25T
17T21727T8RK02	21,7	12,7	8	2,75	4,5	0,2	T8	4	0,013	DS-T25T
17T21730T8RK02	21,7	12,7	8	3	4,5	0,2	T8	4	0,014	DS-T25T
17T21731T8RK02	21,7	12,7	8	3,17	4,5	0,2	T8	4	0,014	DS-T25T
17T21732T8RK02	21,7	12,7	8	3,25	4,5	0,2	T8	4	0,014	DS-T25T
17T21740T8RK02	21,7	12,7	8	4	4,5	0,2	T8	4	0,017	DS-T25T
17T21742T8RK02	21,7	12,7	8	4,25	4,5	0,2	T8	4	0,017	DS-T25T
17T21747T8RK02	21,7	12,7	8	4,75	4,5	0,2	T8	4	0,019	DS-T25T
17T21752T8RK02	21,7	12,7	8	5,25	4,5	0,2	T8	4	0,020	DS-T25T
17T21710T8RP00	21,7	17,7	8	1	2	0,05	T8	4	0,009	DS-T25T
17T21717T8RP01	21,7	12,7	8	1,7	4,5	0,1	T8	4	0,010	DS-T25T
17T21720T8RP02	21,7	12,7	8	2	4,5	0,2	T8	4	0,010	DS-T25T
17T21725T8RP02	21,7	12,7	8	2,5	4,5	0,2	T8	4	0,012	DS-T25T
17T21730T8RP02	21,7	12,7	8	3	4,5	0,2	T8	4	0,014	DS-T25T
17T21740T8RP02	21,7	12,7	8	4	4,5	0,2	T8	4	0,017	DS-T25T

① = Screw driver / Tournevis

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance
IN2005

P M K N_(K) S_(M) H_(P/K)
+ + + ○ + ○

D (D) +0/-0,05
d (a) ±0,02



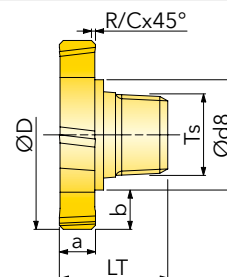
+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	d8	LT	L	L1	a	b	R	Ts	Z	kg	①
17T07707TQRK02	7,7	4,5	22,1	15	10	0,7	1,2	0,2	T5	4	0,007	WS-0043
17T07708TQRK02	7,7	4,5	22,1	15	10	0,8	1,2	0,2	T5	4	0,007	WS-0043
17T07709TQRK02	7,7	4,5	22,1	15	10	0,9	1,2	0,2	T5	4	0,007	WS-0043
17T07710TQRK02	7,7	4,5	22,1	15	10	1	1,2	0,2	T5	4	0,007	WS-0043
17T07715TQRK02	7,7	4,5	22,1	15	10	1,5	1,2	0,2	T5	4	0,007	WS-0043
17T07720TQRK02	7,7	4,5	22,1	15	10	2	1,2	0,2	T5	4	0,007	WS-0043

① = Wrench / Clé de serrage

CHIP SURFER SLOT MILL WITH CHAMFER OR CORNER RADIUS Z=6 FRAISE 3 TAILLES AVEC CHANFREIN OU RAYON Z=6

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P
M
K
N_(K)
S_(M)
H_(PK)

+ Preferred choice / Premier choix O Second choice / Second choix

D (D) +0/-0,05
d (a) ±0,02

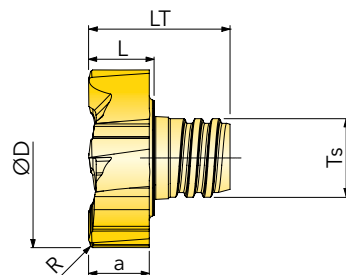
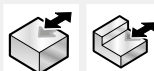


Designation Réf. de l'article	D	d8	LT	a	b	R	C	Ts	Z	kg	①
18T13520QRN00	13,5	8,2	7,1	2	2,65	-	0,15	T5	6	0,006	DS-T20T
18T13525QRN00	13,5	8,2	7,1	2,5	2,65	-	0,15	T5	6	0,006	DS-T20T
18T13530QRN04	13,5	8,2	7,1	3	2,65	0,4	-	T5	6	0,006	DS-T20T
18T13540QRN04	13,5	8,2	7,1	4	2,65	0,4	-	T5	6	0,007	DS-T20T
18T16020T6RN04	16	10	6,65	2	3	0,4	-	T6	6	0,005	DS-T20T
18T16030T6RN04	16	10	6,65	3	3	0,4	-	T6	6	0,008	DS-T25T
18T16040T6RN04	16	10	6,65	4	3	0,4	-	T6	6	0,010	DS-T25T
18T16520T6RN04	16,5	10	6,65	2	3,25	0,4	-	T6	6	0,006	DS-T25T
18T16530T6RN04	16,5	10	6,65	3	3,25	0,4	-	T6	6	0,008	DS-T20T
18T16540T6RN04	16,5	10	6,65	4	3,25	0,4	-	T6	6	0,010	DS-T30T
18T19540T8RN04	19,5	11,8	8	4	3,25	0,4	-	T8	6	0,016	DS-T30T
18T19550T8RN04	19,5	11,8	8	5	3,25	0,4	-	T8	6	0,019	DS-T30T
18T19560T8RN04	19,5	11,8	8	6	3,25	0,4	-	T8	6	0,022	DS-T30T
18T22550T8RN04	22,5	11,8	8	5	4,75	0,4	-	T8	6	0,020	DS-T40L
18T22560T8RN04	22,5	11,8	8	6	4,75	0,4	-	T8	6	0,024	DS-T40L
18T22580T8RN04	22,5	11,8	8	8	4,75	0,4	-	T8	6	0,030	DS-T40L
18T25050T8RN04	25	11,2	8	5	5,9	0,4	-	T8	6	0,029	DS-T50L
18T25060T8RN04	25	11,2	8	6	5,9	0,4	-	T8	6	0,029	DS-T50L
18T25080T8RN04	25	11,2	8	8	5,9	0,4	-	T8	6	0,038	DS-T50L
18T25050TRRN04	25	16,4	11,8	5	4,3	0,4	-	T10	6	0,032	DS-T50L
18T25060TRRN04	25	16,4	11,8	6	4,3	0,4	-	T10	6	0,037	DS-T50L
18T25080TRRN04	25	16,4	11,8	8	4,3	0,4	-	T10	6	0,045	DS-T50L
18T27725TRRN02	27,7	15,7	11,8	2,5	6	0,2	-	T10	6	0,024	DS-T40L
18T27752TRRN02	27,7	15,7	11,8	5,25	6	0,2	-	T10	6	0,039	DS-T40L
18T27799TRRN02	27,7	15,7	11,8	10	6	0,2	-	T10	6	0,064	DS-T40L

① = Screw driver / Tournevis

CHIPSURFER FACE MILL Z=6 FRAISE A SURFACER-DRESSER Z=6

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)

+ Preferred choice / Premier choix ○ Second choice / Second choix

D e8



Designation
Réf. de l'article

D L a R Ts Z



①

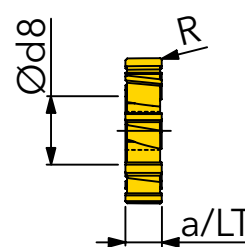
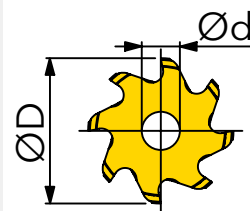
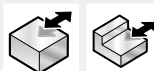


18F12036TQRA02	12	4,4	3,6	0,2	T5	6	0,005	DS-T20T
18F16048T6RA04	16	5,6	4,8	0,4	T6	6	0,010	DS-A00T
18F20060T8RA04	20	6,8	6,0	0,4	T8	6	0,024	DS-T40L
18F25075TRRA04	25	8,4	7,5	0,4	T10	6	0,042	DS-T50L

① = Screw driver / Tournevis

MULTISURFER CUTTER Z=6/8/10 FRAISE MULTIFONCTIONS Z=6/8/10

FOR MULTISURFER
POUR SYSTEME MULTISURFER



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)

+ Preferred choice / Premier choix ○ Second choice / Second choix

D ± 0,05



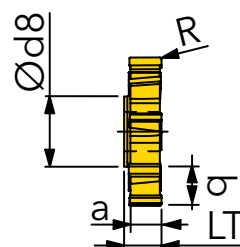
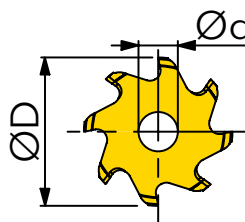
Designation
Réf. de l'article

D d d8 LT a R Z XT



18F24280LPRA04	24,25	7,4	13	8	8	0,4	6	13	0,045
19F31280LQRA04	31,25	8,4	15	8	8	0,4	8	15	0,053
19F39210LRRRA04	39,25	9,8	17	10	10	0,4	10	17	0,099

FOR MULTISURFER
POUR SYSTÈME MULTISURFER

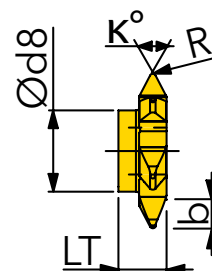
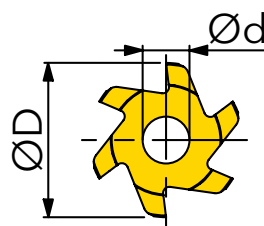


Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)		D	± 0,05						
IN2005	+	+	+		+	○	▽▽▽	d	(a) ± 0,03	≤44 HRC					

+ Preferred choice / Premier choix ○ Second choice / Second choix ▼ Roughing / Ebauche ▼▽ Pre-finishing / Semi-finition ▼▽▽ Finishing / Finition

Designation Réf. de l'article	D	d	d8	LT	a	b	R	Z	XT	kg
18T24730LPRN04	24,7	7,5	13	8	3	5,5	0,4	6	13	0,015
18T24740LPRN04	24,7	7,5	13	8	4	5,5	0,4	6	13	0,017
18T24750LPRN04	24,7	7,5	13	8	5	5,5	0,4	6	13	0,020
18T24760LPRN04	24,7	7,5	13	8	6	5,5	0,4	6	13	0,021
18T24770LPRN04	24,7	7,5	13	8	7	5,5	0,4	6	13	0,024
18T24780LPRN04	24,7	7,5	13	8	8	5,5	0,4	6	13	0,025
19T31730LQRN04	31,7	8,4	15	8	3	8	0,4	8	15	0,027
19T31740LQRN04	31,7	8,4	15	8	4	8	0,4	8	15	0,030
19T31750LQRN04	31,7	8,4	15	8	5	8	0,4	8	15	0,036
19T31760LQRN04	31,7	8,4	15	8	6	8	0,4	8	15	0,041
19T31770LQRN04	31,7	8,4	15	8	7	8	0,4	8	15	0,046
19T31780LQRN04	31,7	8,4	15	8	8	8	0,4	8	15	0,051
19T39740LRRN04	39,7	9,8	17	10	4	11	0,4	10	17	0,046
19T39750LRRN04	39,7	9,8	17	10	5	11	0,4	10	17	0,055
19T39760LRRN04	39,7	9,8	17	10	6	11	0,4	10	17	0,064
19T39770LRRN04	39,7	9,8	17	10	7	11	0,4	10	17	0,073
19T39780LRRN04	39,7	9,8	17	10	8	11	0,4	10	17	0,081
19T39790LRRN04	39,7	9,8	17	10	9	11	0,4	10	17	0,091
19T39799LRRN04	39,7	9,8	17	10	10	11	0,4	10	17	0,112

FOR MULTISURFER
POUR SYSTÈME MULTISURFER



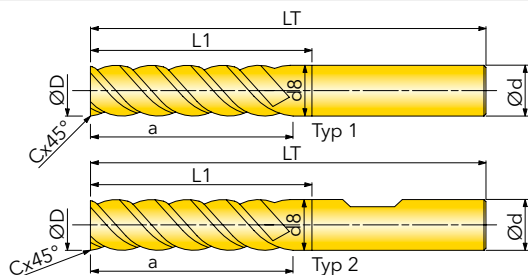
Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)		D	± 0,05	≤44 HRC						
IN2005	+	+	+		+	O	▼▼▼									

+ Preferred choice / Premier choix O Second choice / Second choix ▼ Roughing / Ebauche ▼▼ Pre-finishing / Semi-finition ▼▼▼ Finishing / Finition

Designation Réf. de l'article	D	D min.	d	d8	LT	κ	b	R	P	TPI	Z	XT	kg
18Y24730LPRP60	24,7	36	7,5	13	7,7	60	3,5	0,2	3-5	5-3	6	13	0,015
19Y31740LQRP60	31,7	46	8,4	15	7,7	60	4,7	0,3	4-6	6-4	8	15	0,034
19Y39760LRRP60	39,7	57	9,8	17	9,5	60	6,2	0,4	6-8	4-3	10	17	0,075
18Y24750LPRP55	24,7	36	7,5	13	7,7	55	3,5	0,5	-	5-3	6	13	0,015
19Y31760LQRP55	31,7	46	8,4	15	7,7	55	4,7	0,5	-	6-4	8	15	0,034
19Y39740LRRP60	39,7	57	9,8	17	9,5	60	6,2	0,8	-	4-3	10	17	0,075

SOLID CARBIDE HPC ROUGHER & FINISHER UNEQUALLY SPACED Z=4 / Z=5
FRAISE HPC RAVAGEUSE & FINITION-Z4 OU Z5

ADAPTION ACC. TO DIN 6535 HA / 6535 HB
ATTACHEMENT DIN 6535 HA / 6535 HB



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(P/K)
+ + + + O

D

d

e8

h6



+ Preferred choice / Premier choix O Second choice / Second choix

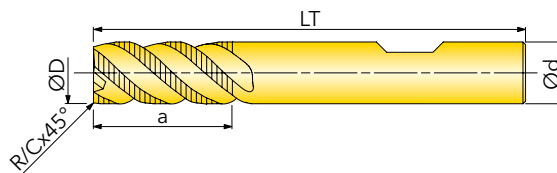
Designation Réf. de l'article	D	d	d8	LT	L1	a	C	Typ	Z	kg
47C03008T7RQ010 ¹⁾	3	6	2,8	57	11	8	0,1	1	4	0,019
47C04010T7RQ010 ¹⁾	4	6	3,8	57	14	10	0,15	1	4	0,019
47C05012T7RQ010 ¹⁾	5	6	4,8	57	17	12	0,18	1	4	0,019
47C06014T7RQ020 ¹⁾	6	6	5,8	57	20	14	0,25	1	4	0,020
47C06014WERQ020 ²⁾	6	6	5,8	57	20	14	0,25	2	4	0,020
47C08018T0RQ030 ¹⁾	8	8	7,8	63	26	18	0,3	1	4	0,039
47C10022T1RQ040 ¹⁾	10	10	9,8	72	32	22	0,4	1	4	0,068
47C12026T2RQ050 ¹⁾	12	12	11,7	83	38	26	0,5	1	4	0,113
47C12026W2RQ050 ²⁾	12	12	11,7	83	38	26	0,5	2	4	0,112
47C16034T3RQ060 ¹⁾	16	16	15,7	100	50	34	0,6	1	4	0,238
47C16034W3RQ060 ²⁾	16	16	15,7	100	50	34	0,6	2	4	0,237
47C20042T4RQ060 ¹⁾	20	20	19,7	110	60	42	0,6	1	4	0,395
47C20042W4RQ060	20	20	19,7	110	60	42	0,6	2	4	0,392
47C06015WERQ021 ²⁾	6	6	-	57	-	15	0,2	2	5	0,020
47C08020T0RQ021 ¹⁾	8	8	-	63	-	20	0,25	1	5	0,040
47C08020W0RQ021 ²⁾	8	8	-	63	-	20	0,25	2	5	0,039
47C10025T1RQ031 ¹⁾	10	10	-	72	-	25	0,3	1	5	0,069
47C10025W1RQ031 ²⁾	10	10	-	72	-	25	0,3	2	5	0,068
47C12030T2RQ041 ¹⁾	12	12	-	83	-	30	0,4	1	5	0,113
47C12030W2RQ041 ²⁾	12	12	-	83	-	30	0,4	2	5	0,112
47C16040T3RQ051 ¹⁾	16	16	-	100	-	40	0,5	1	5	0,236
47C16040W3RQ051 ²⁾	16	16	-	100	-	40	0,5	2	5	0,233
47C20050T4RQ051 ¹⁾	20	20	-	125	-	50	0,5	1	5	0,463
47C20050W4RQ051 ²⁾	20	20	-	125	-	50	0,5	2	5	0,459

HPC rougher & finisher unequally spaced / Fraise HPC ébauche & finition à pas inégal

¹⁾ DIN 6535 HA / DIN 6535 HA; ²⁾ DIN 6535 HB / DIN 6535 HB

SOLID CARBIDE 4-7 FLUTE ROUGHERS - 2XD
FRAISE RAVAGEUSE - 2XD-Z4 À Z7

ADAPTION ACC. TO DIN 6535 HB
ATTACHEMENT DIN 6535 HB



Grade / Nuance

IN2005

P M K N S H
+ + + + O

D

d

e9

h6



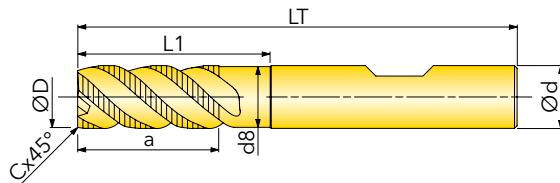
+ Preferred choice / Premier choix O Second choice / Second choix

Designation Réf. de l'article	D	d	LT	a	R	C	Z	kg
47C05010WERN020	5	6	57	10	-	0,2	4	0,020
47C06012WERN020	6	6	57	12	-	0,25	4	0,020
47C08016WORN030	8	8	63	16	-	0,3	4	0,039
47C10020W1RN030	10	10	72	20	-	0,35	4	0,068
47C12024W2RN030	12	12	83	24	-	0,35	4	0,112
47D12024W2RN120	12	12	83	24	1,2	-	4	0,113
47C16032W3RN030 ¹⁾	16	16	92	32	-	0,35	5	0,218
48C20040W4RN030 ¹⁾	20	20	104	40	-	0,35	7	0,392

¹⁾ 5 or 7 flutes no center milling / 5 ou 7 dents pas de coupe au centre

SOLIDCARBIDE 4-7 FLUTE ROUGHERS - 3XD FRAISE RAVAGEUSE - 3XD-Z4 À Z7

ADAPTION ACC. TO DIN 6535 HB
 ATTACHEMENT DIN 6535 HB



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(P/K)
 + + + + O

+ Preferred choice / Premier choix O Second choice / Second choix

D

d

e9

h6



Designation

Réf. de l'article

D

d

d8

LT

L1

a

C

Z

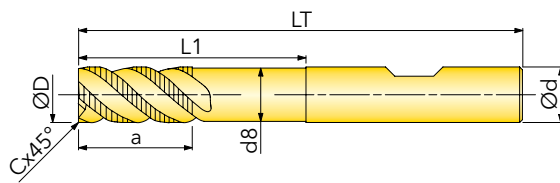
kg

47C06012WERN021	6	6	5,9	57	18	12	0,25	4	0,020
47C08016WORN031	8	8	7,8	63	24	16	0,3	4	0,039
47C10020W1RN031	10	10	9,8	72	30	20	0,35	4	0,068
47C12024W2RN031	12	12	11,7	83	36	24	0,35	4	0,112
47C16032W3RN031 ¹⁾	16	16	15,7	100	48	32	0,35	5	0,238
48C20040W4RN031 ¹⁾	20	20	19,7	110	60	40	0,35	7	0,417

¹⁾ 5 or 7 flutes no center milling / 5 ou 7 dents pas de coupe au centre

SOLIDCARBIDE 4-5 FLUTE ROUGHERS - 4XD FRAISE RAVAGEUSE - 4XD-Z4 OU Z5

ADAPTION ACC. TO DIN 6535 HB
 ATTACHEMENT DIN 6535 HB



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(P/K)
 + + + + O

+ Preferred choice / Premier choix O Second choice / Second choix

D

d

e9

h6



Designation

Réf. de l'article

D

d

d8

LT

L1

a

C

Z

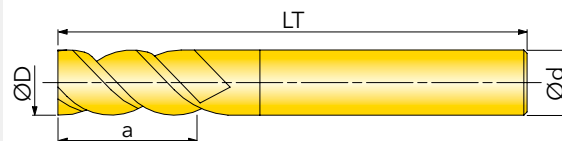
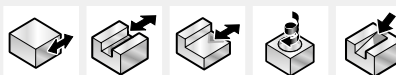
kg

47C08012WORN030	8	8	7,8	68	32	12	0,3	4	0,042
47C10015W1RN030	10	10	9,8	80	40	15	0,35	4	0,078
47C12018W2RN030	12	12	11,7	100	48	18	0,35	4	0,142
47C16024W3RN030 ¹⁾	16	16	15,7	115	64	24	0,35	5	0,288

¹⁾ 5 flutes no center cutting / 5 dents pas de coupe au centre

SOLID CARBIDE 3 FLUTE SLOT DRILL - DIN 6535HA
FRAISE EN BOUT-Z3-DIN 6535HA

ADAPTION ACC. TO DIN 6535 HA
ATTACHEMENT DIN 6535 HA



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)
+ + + + ○

D

d

e8

h6

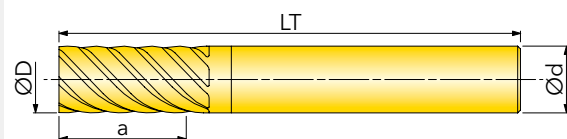


+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	d	LT	a	Z	kg
46J02007T9RD380	2	3	38	7	3	0,003
46J02007T7RD500	2	6	57	7	3	0,019
46J03010T9RD380	3	3	38	10	3	0,003
46J03010T7RD500	3	6	57	10	3	0,018
46J04012U0RD500	4	4	50	12	3	0,008
46J04012T7RD500	4	6	57	12	3	0,017
46J05014U1RD500	5	5	50	14	3	0,012
46J05014T7RD500	5	6	57	14	3	0,019
46J06016T7RD500	6	6	57	16	3	0,020
46J07016UARD600	7	7	60	16	3	0,029
46J08020T0RD630	8	8	63	20	3	0,039
46J09020U9RD670	9	9	67	20	3	0,045
46J10022T1RD720	10	10	72	22	3	0,069
46J12025T2RD730	12	12	83	25	3	0,115
46J14025U8RD750	14	14	83	25	3	0,155
46J16032T3RD820	16	16	92	32	3	0,218
46J20038T4RD920	20	20	104	38	3	0,382

SOLID CARBIDE 6 FLUTE END MILL - MEDIUM LENGTH (FINISHING)
FRAISE EN BOUT-FINITION-SÉRIE MOYENNE-Z6

ADAPTION ACC. TO DIN 6535 HA
ATTACHEMENT DIN 6535 HA



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)
+ + + + O

D

d

e8

h6

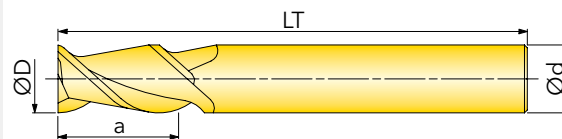
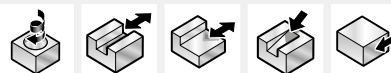


+ Preferred choice / Premier choix O Second choice / Second choix

Designation Réf. de l'article	D	d	LT	a	Z	kg
48J06016T7RD570	6	6	57	16	6	0,021
48J08020T0RD630	8	8	63	20	6	0,020
48J10022T1RD720	10	10	72	22	6	0,073
48J12025T2RD830	12	12	83	25	6	0,120
48J16032T3RD920	16	16	92	32	6	0,231
48J20038T4RD100	20	20	104	38	6	0,407

SOLID CARBIDE 2 FLUTE SLOT DRILL - MEDIUM LENGTH
 FRAISE ALU A RAINURER 2 HELICES - LONGUEUR MOYENNE

ADAPTION ACC. TO DIN 6535 HA
 ATTACHEMENT DIN 6535 HA



Grade / Nuance

IN05S

P M K N_(K) S_(M) H_(PK)
 +

D d h6 h6

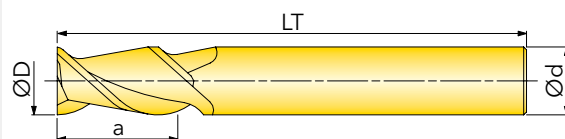


+ Preferred choice / Premier choix O Second choice / Second choix

Designation Réf. de l'article	D	d	LT	a	Z	kg
45J04012T7RD570	4	6	57	12	2	0,018
45J05014T7RD570	5	6	57	14	2	0,019
45J06016T7RD570	6	6	57	16	2	0,019
45J08020T0RD630	8	8	63	20	2	0,037
45J10022T1RD720	10	10	72	22	2	0,066
45J12025T2RD830	12	12	83	25	2	0,109
45J16032T3RD920	16	16	92	32	2	0,205
45J20038T4RD100	20	20	104	38	2	0,354
on request with diamond coating / revêtement diamant sur demande						

SOLID CARBIDE 2 FLUTE SLOT DRILL - MEDIUM LENGTH
FRAISE ALU A RAINURER 2 HELICES - LONGUEUR MOYENNE

ADAPTION ACC. TO DIN 6535 HA
ATTACHEMENT DIN 6535 HA



Grade / Nuance

IN3305

P

M

K

N_(K)

S_(M)

H_(PK)

+

D

d

h6

h6

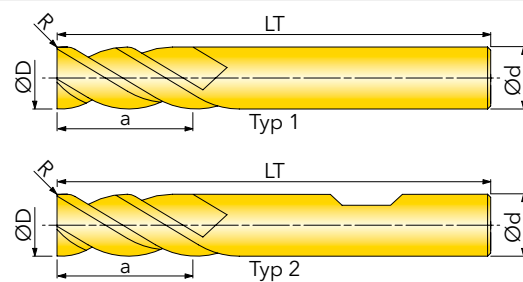
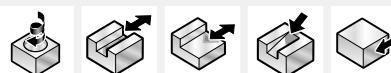


+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	d	LT	a	Z	kg
45J04012T7RD570	4	6	57	12	2	0,018
45J05014T7RD570	5	6	57	14	2	0,019
45J06016T7RD570	6	6	57	16	2	0,019
45J08020T0RD630	8	8	63	20	2	0,037
45J10022T1RD720	10	10	72	22	2	0,066
45J12025T2RD830	12	12	83	25	2	0,109
45J16032T3RD920	16	16	92	32	2	0,205
45J20038T4RD100	20	20	104	38	2	0,354

SOLID CARBIDE 3 FLUTE END MILL WITH CORNER RADIUS
FRAISE ALU RAYONNÉE Z=3

ADAPTION ACC. TO DIN 6535 HA / 6535 HB
ATTACHEMENT DIN 6535 HA / 6535 HB



Grade / Nuance
IN05S

P M K N_(K) S_(M) H_(PK)
+

D d h6 h6



+ Preferred choice / Premier choix O Second choice / Second choix

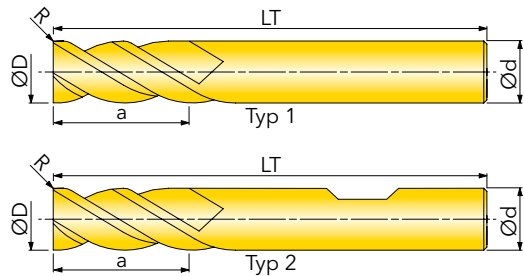
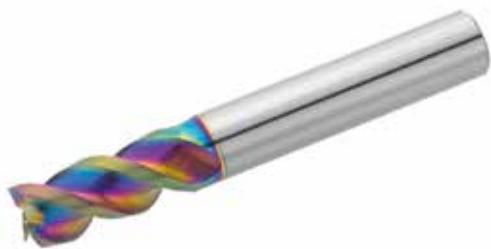
Designation Réf. de l'article	D	d	LT	a	R	Typ	Z	kg
46D05014T7RD020 ¹⁾	5	6	57	14	0,2	1	3	0,019
46D05014WERD020 ²⁾	5	6	57	14	0,2	2	3	0,019
46D06016T7RD020 ¹⁾	6	6	57	16	0,2	1	3	0,020
46D06016WERD020 ²⁾	6	6	57	16	0,2	2	3	0,020
46D08020T0RD020 ¹⁾	8	8	63	20	0,2	1	3	0,038
46D08020W0RD020 ²⁾	8	8	63	20	0,2	2	3	0,037
46D10022T1RD020 ¹⁾	10	10	72	22	0,2	1	3	0,067
46D10022W1RD020 ²⁾	10	10	72	22	0,2	2	3	0,066
46D12025T2RD020 ¹⁾	12	12	83	25	0,2	1	3	0,111
46D12025W2RD020 ²⁾	12	12	83	25	0,2	2	3	0,110
46D16032T3RD020 ¹⁾	16	16	92	32	0,2	1	3	0,211
46D16032W3RD020 ²⁾	16	16	92	32	0,2	2	3	0,208
46D20038T4RD020 ¹⁾	20	20	104	38	0,2	1	3	0,367
46D20038W4RD020 ²⁾	20	20	104	38	0,2	2	3	0,368

on request with diamond coating / revêtement diamant sur demande

¹⁾ DIN 6535 HA / DIN 6535 HA; ²⁾ DIN 6535 HB / DIN 6535 HB

SOLID CARBIDE 3 FLUTE END MILL WITH CORNER RADIUS
FRAISE ALU RAYONNÉE Z=3

ADAPTION ACC. TO DIN 6535 HA / 6535 HB
ATTACHEMENT DIN 6535 HA / 6535 HB



Grade / Nuance

IN3305

P

M

K

N_(K)

S_(M)

H_(PK)

+

D

d

h6

h6

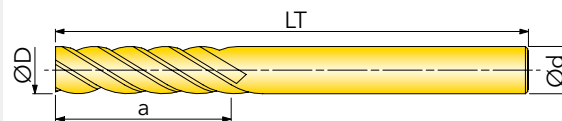
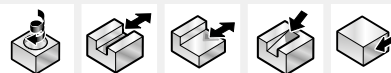


+ Preferred choice / Premier choix O Second choice / Second choix

Designation Réf. de l'article	D	d	LT	a	R	Typ	Z	kg
46D05014T7RD020	5	6	57	14	0,2	1	3	0,019
46D05014WERD020	5	6	57	14	0,2	2	3	0,019
46D06016T7RD020	6	6	57	16	0,2	1	3	0,020
46D06016WERD020	6	6	57	16	0,2	2	3	0,020
46D08020T0RD020	8	8	63	20	0,2	1	3	0,038
46D08020WORD020	8	8	63	20	0,2	2	3	0,037
46D10022T1RD020	10	10	72	22	0,2	1	3	0,067
46D10022W1RD020	10	10	72	22	0,2	2	3	0,066
46D12025T2RD020	12	12	83	25	0,2	1	3	0,111
46D12025W2RD020	12	12	83	25	0,2	2	3	0,110
46D14030U8RD020	14	14	83	30	0,2	1	3	0,144
46D14030WFRD020	14	14	83	30	0,2	2	3	0,142
46D16032T3RD020	16	16	92	32	0,2	1	3	0,211
46D16032W3RD020	16	16	92	32	0,2	2	3	0,208
46D20038T4RD020	20	20	104	38	0,2	1	3	0,367
46D20038W4RD020	20	20	104	38	0,2	2	3	0,368

SOLID CARBIDE 4 FLUTE END MILL - EXTRA LONG LENGTH
FRAISE ALU EN BOUT, SERIE EXTRA LONGUE-Z4

ADAPTION ACC. TO DIN 6535 HA
 ATTACHEMENT DIN 6535 HA



Grade / Nuance
 IN05S

P M K N_(K) S_(M) H_(P/K)
 +

D d h10 h6



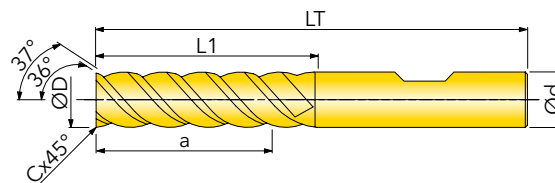
+ Preferred choice / Premier choix O Second choice / Second choix

Designation Réf. de l'article	D	d	LT	a	Z	kg
47J03030T9RB750	3	3	75	30	4	0,006
47J04030U0RB750	4	4	75	30	4	0,011
47J05040U1RB100	5	5	100	40	4	0,024
47J06050T7RB150	6	6	150	50	4	0,053
47J08050T0RB150	8	8	150	50	4	0,094
47J10060T1RB150	10	10	150	60	4	0,140
47J12075T2RB150	12	12	150	75	4	0,200

on request with diamond coating / revêtement diamant sur demande

ECOLINE HIGH SPEED CUTTER Z=4 SHORT VERSION
FRAISE CARBURE HPC - SÉRIE COURTE Z=4 ECO

ADAPTION ACC. TO DIN 6535 HB
ATTACHEMENT DIN 6535 HB



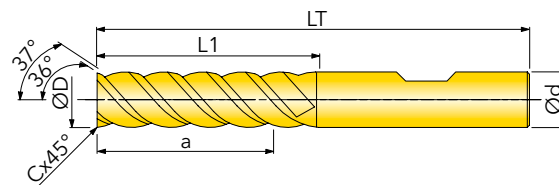
Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)		D	h10								
IN2005	+	○	+	○			▼▼▼	d	h6								

+ Preferred choice / Premier choix ○ Second choice / Second choix ▼ Roughing / Ebauche ▼▼ Pre-finishing / Semi-finition ▼▼▼ Finishing / Finition

Designation Réf. de l'article	D	d	LT	L1	a	C	Z
47C06010WERQ012	6	6	54	20	10	0,12	4
47C08012WORQ016	8	8	58	21	12	0,16	4
47C10014W1RQ020	10	10	66	24	14	0,20	4
47C12016W2RQ024	12	12	73	26	16	0,24	4
47C16022W3RQ032	16	16	82	32	22	0,32	4
47C20026W4RQ040	20	20	92	42	26	0,40	4

ECOLINE HIGH SPEED CUTTER Z=4 LONG VERSION
FRAISE CARBURE HPC - SERIE LONGUE Z=4 ECO

ADAPTION ACC. TO DIN 6535 HB
ATTACHEMENT DIN 6535 HB

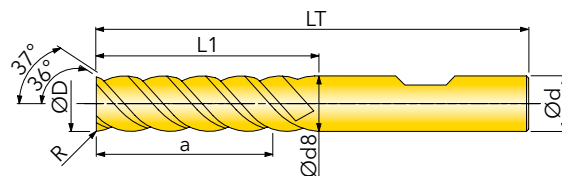


Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)		D	h10							
IN2005	+	○	+	○			▼▼▼	d	h6							

+ Preferred choice / Premier choix ○ Second choice / Second choix ▼ Roughing / Ebauche ▼▼ Pre-finishing / Semi-finition ▼▼▼ Finishing / Finition

Designation Réf. de l'article	D	d	LT	L1	a	C	Z
47C06013WERQ012	6	6	57	23	13	0,12	4
47C08021W0RQ016	8	8	63	30	21	0,16	4
47C10022W1RQ020	10	10	72	32	22	0,20	4
47C12026W2RQ024	12	12	83	36	26	0,24	4
47C16036W3RQ040	16	16	92	47	36	0,32	4
47C20041W4RQ040	20	20	104	56	41	0,40	4

ADAPTION ACC. TO DIN 6535 HB
ATTACHEMENT DIN 6535 HB



Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)		D	h10							
IN2005	+	○	+	○			▼▼▼	d	h6							

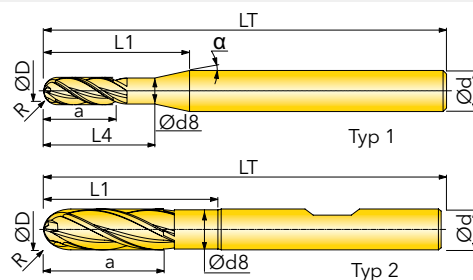
+ Preferred choice / Premier choix
 ○ Second choice / Second choix
 ▼ Roughing / Ebauche
 ▼▼ Pre-finishing / Semi-finition
 ▼▼▼ Finishing / Finition

Designation Réf. de l'article	D	d	LT	L1	a	R	Z
47D06019WERT020	6	6	63	29	19	0,2	4
47D08023WORT050	8	8	70	33	23	0,5	4
47D10033W1RT050	10	10	81	43	33	0,5	4
47D12037W2RT050	12	12	94	47	37	0,5	4
47D16040W3RT100	16	16	109	56	40	1	4
47D20048W4RT100	20	20	120	64	48	1	4



PREMIUMLINE HPC BALLNOSE CUTTER Z=4 (PL)
FRAISE HÉMISPÉRIQUE HPC Z=4 (PL)

ADAPTION ACC. TO DIN 1835 B (WELDON)
ATTACHEMENT DIN 1835 B (WELDON)

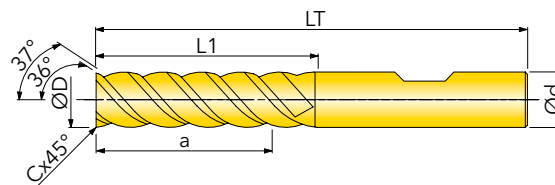
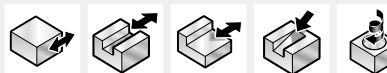


Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)		D	e8				
IN2505	+	+	+		+	O	▼▼▼	C/R	± 0,005	λ _{max}	⊗	≤44 HRC	
							▼▼▼	d	h6				

+ Preferred choice / Premier choix O Second choice / Second choix ▼ Roughing / Ebauche ▼▼ Pre-finishing / Semi-finition ▼▼▼ Finishing / Finition

Designation Réf. de l'article	D	d	d8	LT	L1	L4	α	a	R	Typ	Z	kg
47B04010WERC580	4	6	3,8	58	21	16	15	10	2	Typ 1	4	0,02
47B05013WERC580	5	6	4,7	58	21	19	15	13	2,5	Typ 1	4	0,02
47B06013WERC580	6	6	5,6	58	21	-	-	13	3	Typ 2	4	0,02
47B08016W0RC640	8	8	7,6	64	27	-	-	16	4	Typ 2	4	0,04
47B10022W1RC730	10	10	9,6	73	32	-	-	22	5	Typ 2	4	0,07
47B12026W2RC840	12	12	11,6	84	37	-	-	26	6	Typ 2	4	0,10
47B14026WFRC840	14	14	13,6	84	37	-	-	26	7	Typ 2	4	0,20
47B16032W3RC930	16	16	15,6	93	40	-	-	32	8	Typ 2	4	0,30
47B20038W4RC100	20	20	19,6	105	51	-	-	38	10	Typ 2	4	0,40

ADAPTION ACC. TO DIN 6535 HB
ATTACHEMENT DIN 6535 HB



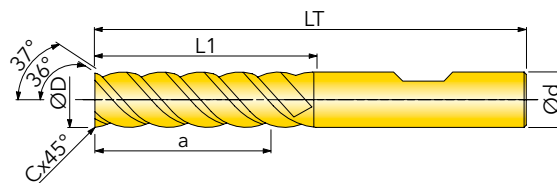
Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)		D	e8							
IN2505	+	○	+		○		▼▼▼	d	h6							

+ Preferred choice / Premier choix
 ○ Second choice / Second choix
 ▼ Roughing / Ebauche
 ▼▼ Pre-finishing / Semi-finition
 ▼▼▼ Finishing / Finition

Designation Réf. de l'article	D	d	LT	L1	a	C	Z	kg
47C03007WERQ100	3	6	58	10	7	0,10	4	0,020
47C04009WERQ100	4	6	58	16	9	0,10	4	0,019
47C05011WERQ100	5	6	58	19	11	0,10	4	0,021
47C06013WERQ120	6	6	58	20	13	0,12	4	0,021
47C08021W0RQ160	8	8	64	26	21	0,16	4	0,035
47C10022W1RQ200	10	10	73	31	22	0,20	4	0,070
47C12026W2RQ240	12	12	84	38	26	0,24	4	0,112
47C16036W3RQ320	16	16	93	44	36	0,32	4	0,213
47C20041W4RQ400	20	20	105	54	41	0,40	4	0,378

PREMIUMLINE HPC CUTTER Z=4 (PL) LONG VERSION
FAISE HPC Z=4 (PREMIUM LINE) - VERSION LONGUE

ADAPTION ACC. TO DIN 6535 HB
ATTACHEMENT DIN 6535 HB



Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)		D	e8							
IN2505	+	O	+		O		▼▼▼	d	h6							

+ Preferred choice / Premier choix O Second choice / Second choix ▼ Roughing / Ebauche ▼▼ Pre-finishing / Semi-finition ▼▼▼ Finishing / Finition

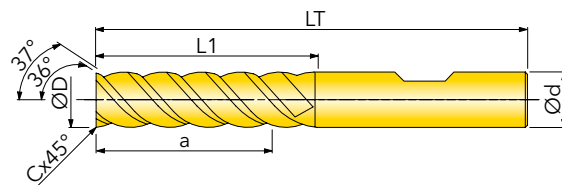
Designation Réf. de l'article	D	d	LT	L1	a	C	Z	kg
47C03010WERQ100	3	6	58	13	10	0,10	4	0,019
47C04014WERQ100	4	6	58	20	14	0,10	4	0,018
47C05016WERQ100	5	6	58	21	16	0,10	4	0,020
47C06019WERT120	6	6	63	26	19	0,12	4	0,033
47C08023W0RT160	8	8	70	33	23	0,16	4	0,050
47C10033W1RT200	10	10	81	40	33	0,20	4	0,077
47C12037W2RT240	12	12	94	47	37	0,24	4	0,090
47C16040W3RT320	16	16	109	56	40	0,32	4	0,150
47C20048W4RT400	20	20	120	64	48	0,40	4	0,400

PREMIUM LINE HPC CUTTER Z=4 (PL) S
FRAISE HPC Z=4 (PREMIUM LINE) INOX

ADAPTION ACC. TO DIN 6535 HB
ATTACHEMENT DIN 6535 HB



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Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)		D	e8							
IN2205	O	+	O		+		▼▼▼	d	h6							

+ Preferred choice / Premier choix O Second choice / Second choix ▼ Roughing / Ebauche ▼▼ Pre-finishing / Semi-finition ▼▼▼ Finishing / Finition

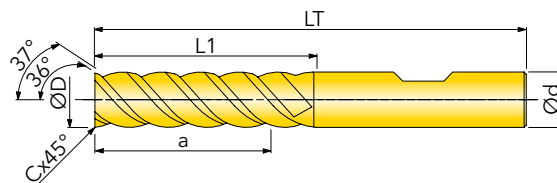
Designation Réf. de l'article	D	d	LT	L1	a	C	Z	kg
47C03007WERQ101	3	6	58	10	7	0,10	4	0,020
47C04009WERQ101	4	6	58	16	9	0,10	4	0,019
47C05011WERQ101	5	6	58	19	11	0,10	4	0,021
47C06013WERQ121	6	6	58	21	13	0,12	4	0,021
47C08021W0RQ161	8	8	64	27	21	0,16	4	0,035
47C10022W1RQ201	10	10	73	32	22	0,20	4	0,070
47C12026W2RQ243	12	12	84	38	26	0,24	4	0,112
47C16036W3RQ321	16	16	93	44	36	0,32	4	0,213
47C20041W4RQ401	20	20	105	54	41	0,40	4	0,378

PREMIUMLINE HPC CUTTER Z=4 (PL) S LONG VERSION
FRAISE HPC Z=4 (PREMIUM LINE) INOX - VERSION LONGUE

ADAPTION ACC. TO DIN 6535 HB
ATTACHEMENT DIN 6535 HB



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Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)		D	e8							
IN2205	○	+	○		+		▼▼▼	d	h6							

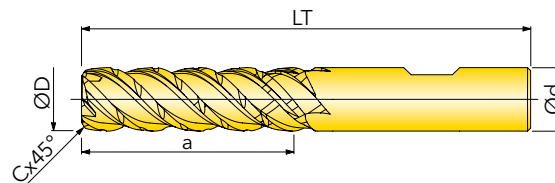
+ Preferred choice / Premier choix ○ Second choice / Second choix ▼ Roughing / Ebauche ▼▼ Pre-finishing / Semi-finition ▼▼▼ Finishing / Finition

Designation Réf. de l'article	D	d	LT	L1	a	C	Z	kg
47C03010WERQ101	3	6	58	13	10	0,10	4	0,019
47C04014WERQ101	4	6	58	20	14	0,10	4	0,018
47C05016WERQ101	5	6	58	21	16	0,10	4	0,020
47C06019WERT121	6	6	63	26	19	0,12	4	0,033
47C08023W0RT161	8	8	70	33	23	0,16	4	0,050
47C10033W1RT201	10	10	81	40	33	0,20	4	0,077
47C12037W2RT241	12	12	94	47	37	0,24	4	0,090
47C16040W3RT321	16	16	109	56	40	0,32	4	0,150
47C20048W4RT401	20	20	120	64	48	0,40	4	0,400

ADAPTION ACC. TO DIN 6535 HB
ATTACHEMENT DIN 6535 HB



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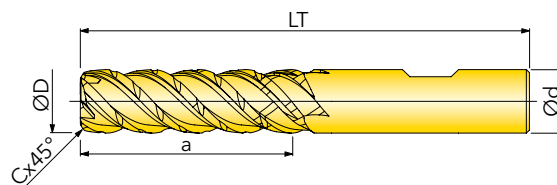


Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)		D C/R d	e8 ±0.05 h6							
IN2505	+	○	+													

+ Preferred choice / Premier choix ○ Second choice / Second choix ▼ Roughing / Ebauche ▼▼ Pre-finishing / Semi-finition ▼▼▼ Finishing / Finition

Designation Réf. de l'article	D	d	LT	a	C	Z	kg
47C06024WERD010	6	6	65	24	0,12	4	0,023
47C08032WORD020	8	8	76	32	0,16	4	0,046
47C10040W1RD020	10	10	90	40	0,20	4	0,085
47C12044W2RD020	12	12	100	44	0,24	4	0,138
47C16055W3RD030	16	16	109	55	0,32	4	0,260
47C20065W4RD040	20	20	126	65	0,40	4	0,477

ADAPTION ACC. TO DIN 6535 HB
ATTACHEMENT DIN 6535 HB



Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)		D C/R d	e8 ±0.05 h6								
IN2205	○	+			+												

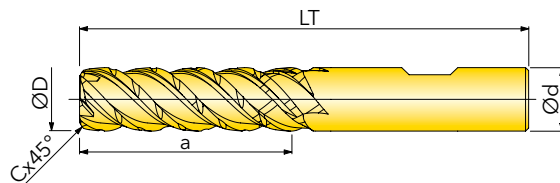
+ Preferred choice / Premier choix ○ Second choice / Second choix ▼ Roughing / Ebauche ▼▼ Pre-finishing / Semi-finition ▼▼▼ Finishing / Finition

Designation Réf. de l'article	D	d	LT	a	C	Z	
47C06024WERD012	6	6	65	24	0,12	4	0,023
47C08032WORD022	8	8	76	32	0,16	4	0,046
47C10040W1RD022	10	10	90	40	0,20	4	0,085
47C12044W2RD022	12	12	100	44	0,24	4	0,138
47C16055W3RD032	16	16	109	55	0,32	4	0,260
47C20065W4RD042	20	20	126	65	0,40	4	0,477

ADAPTION ACC. TO DIN 6535 HB
ATTACHEMENT DIN 6535 HB



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Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)		D	e8						
IN2505	+	○	+				▼▼	C/R	±0.05						
								d	h6						

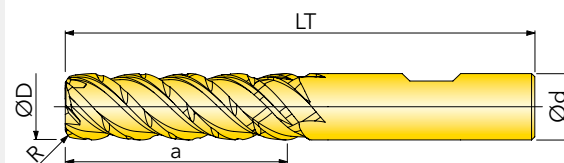
+ Preferred choice / Premier choix ○ Second choice / Second choix ▼ Roughing / Ebauche ▼▼ Pre-finishing / Semi-finition ▼▼▼ Finishing / Finition

Designation Réf. de l'article	D	d	LT	a	C	Z	kg
47C06024WERD011	6	6	65	24	0,12	5	0,023
47C08032WORD021	8	8	76	32	0,16	5	0,048
47C10040W1RD021	10	10	90	40	0,20	5	0,083
47C12044W2RD021	12	12	100	44	0,24	5	0,137
47C16055W3RD031	16	16	109	55	0,32	5	0,271
47C20065W4RD041	20	20	126	65	0,40	5	0,487

ADAPTION ACC. TO DIN 6535 HB
ATTACHEMENT DIN 6535 HB



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Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)		D C/R d	e8 ±0.05 h6							
IN2505	+	O	+				▼ ▼▼									

+ Preferred choice / Premier choix O Second choice / Second choix ▼ Roughing / Ebauche ▼▼ Pre-finishing / Semi-finition ▼▼▼ Finishing / Finition

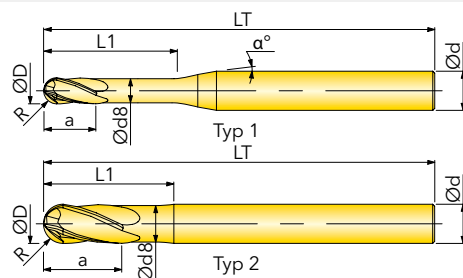
Designation Réf. de l'article	D	d	LT	a	R	Z	 kg
47D10055T1RN030	10	10	107	55	0,3	5	0,098
47D12063T2RN050	12	12	120	63	0,5	5	0,164
47D16085T3RN100	16	16	150	85	1	5	0,330
47D20099W4RN100	20	20	185	105	1	5	0,584

INRAPID HSC BALL NOSE END MILL, Z=4 FRAISE HÉMISPHERIQUE UGV, Z=4

ADAPTION ACC. TO DIN 6535 HA
 ATTACHEMENT DIN 6535 HA



4 flutes for a high stock removal rate (general roughing operations up to 58 HRC). Short tool lengths make these ideal for HSC finishing operations too.
 Débit copeaux élevé grâce aux 4 goujures (opérations d'ébauche générale jusqu'à 58 HRC). Ces outils courts sont aussi idéaux pour la finition à grande vitesse.



Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)		D	0/-0.02				
IN2006	+	○	+		○	+	▼▼▼	C/R	± 0.01	λ = 30°	458 HRC		
								d	h6				

+ Preferred choice / Premier choix ○ Second choice / Second choix ▼ Roughing / Ebauche ▼▼ Pre-finishing / Semi-finition ▼▼▼ Finishing / Finition

Designation Réf. de l'article	D	d	d8	LT	L1	α	a	R	Typ	Z
INRAP040.200.012Z4	4	6	3,7	60	12	10	5	2	1	4
INRAP040.200.020Z4	4	6	3,7	60	20	10	5	2	1	4
INRAP060.300.020Z4	6	6	5,6	60	20	10	10	3	2	4
INRAP060.300.030Z4	6	6	5,6	80	30	10	10	3	2	4
INRAP080.400.026Z4	8	8	7,4	75	26	10	12	4	2	4
INRAP080.400.040Z4	8	8	7,4	100	40	10	12	4	2	4
INRAP100.500.028Z4	10	10	9,2	75	28	10	16	5	2	4
INRAP100.500.040Z4	10	10	9,2	100	40	10	16	5	2	4
INRAP120.600.030Z4	12	12	11	100	30	10	16	6	2	4

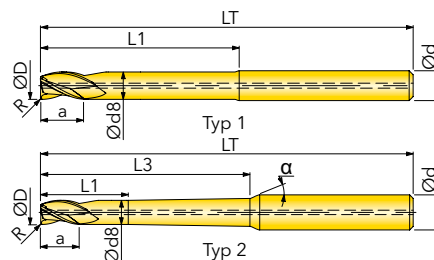
INCOOLANT HIGH-SPEED END MILL, Z=3

FRAISE TORIQUE UGV AVEC ARROSAGE INTÉGRÉ, Z=3 - SUPER ALLIAGES

ADAPTION ACC. TO DIN 6535 HA
ATTACHEMENT DIN 6535 HA



High stock removal rate on soft and tough materials such as titanium and nickel alloys. Solid carbide end mill with through-the-tool coolant.
Débit copeaux élevé dans les matériaux collants et tenaces, par ex. les alliages de nickel et de titane. Fraise en bout carbure monobloc avec arrosage intégré.



Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)	D	0/-0.02			
IN2005	+	○	○	○	○	+	d	h6			

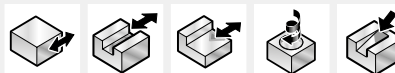
+ Preferred choice / Premier choix ○ Second choice / Second choix ▼ Roughing / Ebauche ▼▼ Pre-finishing / Semi-finition ▼▼▼ Finishing / Finition

Designation Réf. de l'article	D	d	d8	LT	L1	L3	α	a	R	Typ	Z	IK
INCO0040.028.010Z3	4	6	3,6	60	10	-	-	4	0,28	1	3	✓
INCO0040.028.020Z3	4	6	3,6	60	20	-	-	4	0,28	1	3	✓
INCO0040.028.040Z3K17	4	6	3,6	80	12	40	1,7	4	0,28	2	3	✓
INCO0040.028.012Z3K14	4	6	3,6	100	12	64	1,4	4	0,28	2	3	✓
INCO0050.035.025Z3	5	6	4,5	60	25	-	-	6	0,35	1	3	✓
INCO0050.035.040Z3	5	6	4,5	75	40	-	-	6	0,35	1	3	✓
INCO0060.042.025Z3	6	6	5,5	60	25	-	-	6	0,42	1	3	✓
INCO0060.042.040Z3	6	6	5,5	75	40	-	-	6	0,42	1	3	✓
INCO0060.042.060Z3	6	6	5,5	100	60	-	-	6	0,42	1	3	✓
INCO0060.042.020Z3K24	6	8	5,6	85	20	40	2,4	6	0,42	2	3	✓
INCO0060.042.020Z3K16	6	8	5,5	100	20	65	1,6	6	0,42	2	3	✓
INCO0060.042.015Z3K24	6	10	5,8	120	15	65	1,5	6	0,42	2	3	✓
INCO0080.056.030Z3	8	8	7,5	65	30	-	-	8	0,56	1	3	✓
INCO0080.056.060Z3	8	8	7,5	100	60	-	-	8	0,56	1	3	✓
INCO0080.056.020Z3K20	8	10	7,6	100	20	45	2,0	8	0,56	2	3	✓
INCO0080.056.020Z3K16	8	10	7,6	120	20	65	1,6	8	0,56	2	3	✓
INCO0100.070.040Z3	10	10	9,6	75	40	-	-	8	0,7	1	3	✓
INCO0120.080.050Z3	12	12	11,6	125	50	-	-	8	0,8	1	3	✓

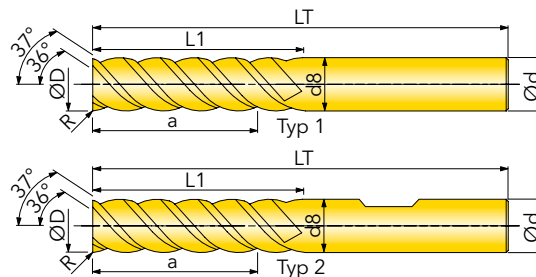
R (Programming radius) / R (Rayon programmé)

INNOVATIVE HPC END MILL, Z=4 FRAISE EN BOUT À GÉOMÉTRIE HPC, Z=4

ADAPTION ACC. TO DIN 6535 HA / 6535 HB
 ATTACHEMENT DIN 6535 HA / 6535 HB



Ideal for roughing and finishing in a wide variety of materials. Variable pitch and variable helix angle.
 Fraise idéale pour l'ébauche et la finition de toutes sortes de matériaux. Pas et angle d'hélice variables.



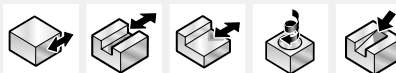
Grade Nuance	P	M	K	N _(K)	S _(M)	H _(P/K)	▼	D C/R d	h10 ± 0.05 h6			
IN2005	+	○	+		○	○	▼▼▼					

+ Preferred choice / Premier choix
 ○ Second choice / Second choix
 ▼ Roughing / Ebauche
 ▼▼ Pre-finishing / Semi-finition
 ▼▼▼ Finishing / Finition

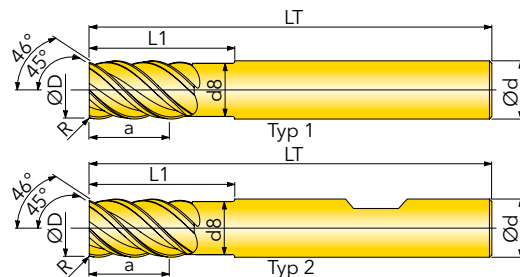
Designation Réf. de l'article	D	d	d8	LT	L1	a	R	Typ	Z
INNOV060.010.019Z4C	6	6	5,6	55	19	13	0,1	1	4
INNOV060.010.025Z4C	6	6	5,6	61	25	10	0,1	1	4
INNOV060.010.019Z4W	6	6	5,6	55	19	13	0,1	2	4
INNOV060.010.025Z4W	6	6	5,6	61	25	10	0,1	2	4
INNOV080.010.025Z4C	8	8	7,5	61	25	17	0,1	1	4
INNOV080.010.033Z4C	8	8	7,5	69	33	13	0,1	1	4
INNOV080.010.025Z4W	8	8	7,5	61	25	17	0,1	2	4
INNOV080.010.033Z4W	8	8	7,5	69	33	13	0,1	2	4
INNOV100.010.032Z4C	10	10	9,5	72	32	22	0,1	1	4
INNOV100.010.032Z4W	10	10	9,5	72	32	22	0,1	2	4
INNOV100.010.042Z4W	10	10	9,5	82	42	17	0,1	2	4
INNOV120.020.038Z4C	12	12	11,5	83	38	26	0,2	1	4
INNOV120.020.050Z4C	12	12	11,5	95	50	20	0,2	1	4
INNOV120.020.038Z4W	12	12	11,5	83	38	26	0,2	2	4
INNOV120.020.050Z4W	12	12	11,5	95	50	20	0,2	2	4
INNOV160.020.050Z4W	16	16	15,5	98	50	34	0,2	2	4
INNOV160.020.066Z4W	16	16	15,5	114	66	26	0,2	2	4
INNOV200.020.062Z4C	20	20	19,5	112	62	42	0,2	1	4
INNOV200.020.082Z4C	20	20	19,5	132	82	32	0,2	1	4
INNOV200.020.062Z4W	20	20	19,5	112	62	42	0,2	2	4
INNOV200.020.082Z4W	20	20	19,5	132	82	32	0,2	2	4

INNOVATIVE HPC END MILL, Z=5 FRAISE EN BOUT À GÉOMÉTRIE HPC, Z=5

ADAPTION ACC. TO DIN 6535 HA / 6535 HB
 ATTACHEMENT DIN 6535 HA / 6535 HB



Ideal for roughing and finishing in a wide variety of materials. Variable pitch and variable helix angle.
 Fraise idéale pour l'ébauche et la finition de toutes sortes de matériaux. Pas et angle d'hélice variables.



Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)	D	h10	40	54	MRC
IN2005	+	O	+		O	O	C/R	± 0.05			
							d	h6			

+ Preferred choice / Premier choix O Second choice / Second choix ▼ Roughing / Ebauche ▼▼ Pre-finishing / Semi-finition ▼▼▼ Finishing / Finition

Designation Réf. de l'article	D	d	d8	LT	L1	a	R	Typ	Z
INNOV060.010.019Z5C	6	6	5,6	55	19	13	0,1	1	5
INNOV060.010.025Z5C	6	6	5,6	61	25	10	0,1	1	5
INNOV080.010.025Z5C	8	8	7,5	61	25	17	0,1	1	5
INNOV080.010.025Z5W	8	8	7,5	61	25	17	0,1	2	5
INNOV100.010.032Z5C	10	10	9,5	72	32	22	0,1	1	5
INNOV100.010.042Z5C	10	10	9,5	82	42	17	0,1	1	5
INNOV100.010.032Z5W	10	10	9,5	72	32	22	0,1	2	5
INNOV120.020.038Z5C	12	12	11,5	83	38	26	0,2	1	5
INNOV120.020.038Z5W	12	12	11,5	83	38	26	0,2	2	5
INNOV120.020.050Z5W	12	12	11,5	95	50	20	0,2	2	5
INNOV160.020.050Z5C	16	16	15,5	98	50	34	0,2	1	5
INNOV160.020.050Z5W	16	16	15,5	98	50	34	0,2	2	5
INNOV160.020.066Z5W	16	16	15,5	114	66	26	0,2	2	5
INNOV200.020.062Z5C	20	20	19,5	112	62	42	0,2	1	5
INNOV200.020.082Z5C	20	20	19,5	132	82	32	0,2	1	5
INNOV200.020.082Z5W	20	20	19,5	132	82	32	0,2	2	5
INNOV250.040.070Z5C	25	25	24,5	121	70	50	0,4	1	5
INNOV250.040.095Z5C	25	25	24,5	150	95	40	0,4	1	5

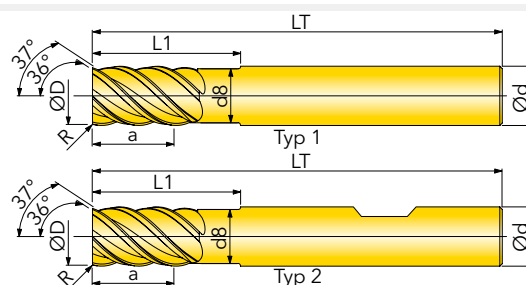


INNOTITAN HPC TITANIUM END MILL Z=4 FRAISE HPC POUR L'USINAGE DU TITANE Z=4

ADAPTION ACC. TO DIN 6535 HA / 6535 HB
 ATTACHEMENT DIN 6535 HA / 6535 HB



Special developed HPC-geometry for rough and finish milling of stainless steel and titanium. Irregular division / unequal helix angle
 Géométrie HPC développée spécialement pour l'ébauche et la finition des matériaux Inoxydables et du Titane. Hélice et Pas décalés



Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)		D C/R d	h10 ± 0.02 h6					
IN2005	O	+	O		+		▼▼▼							

+ Preferred choice / Premier choix
 O Second choice / Second choix
 ▼ Roughing / Ebauche
 ▼▼ Pre-finishing / Semi-finition
 ▼▼▼ Finishing / Finition

Designation Réf. de l'article	D	d	d8	LT	L1	a	R	Typ	Z	kg
INNOT050.020.020Z4C	5	6	4,9	57	20	13	0,2	1	4	0,020
INNOT050.050.020Z4C	5	6	4,9	57	20	13	0,5	1	4	0,020
INNOT060.020.025Z4C	6	6	5,9	57	25	14	0,2	1	4	0,021
INNOT060.050.025Z4C	6	6	5,9	57	25	14	0,5	1	4	0,021
INNOT060.100.025Z4C	6	6	5,9	57	25	14	1	1	4	0,021
INNOT060.200.025Z4C	6	6	5,9	57	25	14	2	1	4	0,021
INNOT080.030.032Z4W	8	8	7,8	68	32	18	0,3	2	4	0,040
INNOT080.080.032Z4C	8	8	7,8	68	32	18	0,8	1	4	0,040
INNOT080.100.032Z4C	8	8	7,8	68	32	18	1	1	4	0,040
INNOT080.200.032Z4C	8	8	7,8	68	32	18	2	1	4	0,040
INNOT080.300.032Z4C	8	8	7,8	68	32	18	3	1	4	0,040
INNOT100.080.032Z4C	10	10	9,8	72	32	22	0,8	1	4	0,070
INNOT100.100.032Z4C	10	10	9,8	72	32	22	1	1	4	0,070
INNOT100.200.032Z4C	10	10	9,8	72	32	22	2	1	4	0,070
INNOT100.300.032Z4C	10	10	9,8	72	32	22	3	1	4	0,070
INNOT120.080.038Z4C	12	12	11,7	83	38	26	0,8	1	4	0,110
INNOT120.100.038Z4C	12	12	11,7	83	38	26	1	1	4	0,110
INNOT120.200.038Z4C	12	12	11,7	83	38	26	2	1	4	0,110
INNOT120.300.038Z4C	12	12	11,7	83	38	26	3	1	4	0,110
INNOT120.400.038Z4C	12	12	11,7	83	38	26	4	1	4	0,110
INNOT120.400.038Z4W	12	12	11,7	83	38	26	4	2	4	0,110
INNOT140.080.038Z4C	14	14	13,7	83	38	30	0,8	1	4	0,200
INNOT140.300.038Z4C	14	14	13,7	83	38	30	3	1	4	0,200
INNOT160.100.050Z4W	16	16	15,7	100	50	34	1	2	4	0,300
INNOT160.200.050Z4C	16	16	15,7	100	50	34	2	1	4	0,300
INNOT160.300.050Z4C	16	16	15,7	100	50	34	3	1	4	0,300
INNOT160.400.050Z4W	16	16	15,7	100	50	34	4	2	4	0,300
INNOT160.500.050Z4C	16	16	15,7	100	50	34	5	1	4	0,300
INNOT200.100.062Z4W	20	20	19,7	112	62	42	1	2	4	0,450
INNOT200.200.062Z4C	20	20	19,7	112	62	42	2	1	4	0,450
INNOT200.200.062Z4W	20	20	19,7	112	62	42	2	2	4	0,450
INNOT200.250.062Z4C	20	20	19,7	112	62	42	2,5	1	4	0,450
INNOT200.300.062Z4C	20	20	19,7	112	62	42	3	1	4	0,450
INNOT200.400.062Z4C	20	20	19,7	112	62	42	4	1	4	0,450
INNOT200.400.062Z4W	20	20	19,7	112	62	42	4	2	4	0,450
INNOT250.300.069Z4C	25	25	24,7	125	69	50	3	1	4	0,775

INNOTITAN HPC TITANIUM END MILL Z=4 FRAISE HPC POUR L'USINAGE DU TITANE Z=4

Designation Réf. de l'article	D	d	d8	LT	L1	a	R	Typ	Z	
INNOT250.400.069Z4C	25	25	24,7	125	69	50	4	1	4	0,775

Shaft version in DIN6535HA/HB, different corner radii and tool lengths on request! / Queue disponible en version DIN6535HA/HB, autres rayons et longueurs sur demande.

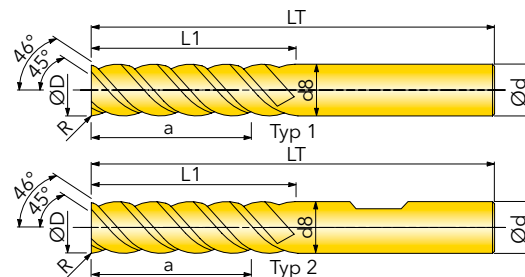


INNOTITAN HPC TITANIUM END MILL Z=5 FRAISE HPC POUR L'USINAGE DU TITANE Z=5

ADAPTION ACC. TO DIN 6535 HA / 6535 HB
 ATTACHEMENT DIN 6535 HA / 6535 HB



Special developed HPC-geometry for rough and finish milling of stainless steel and titanium. Irregular division / unequal helix angle.
 Géométrie HPC développée spécialement pour l'ébauche et la finition des matériaux Inoxydables et du Titane. Hélice et Pas décalés.



Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)
IN2005	○	+	○		+	



D C/R
 d h10
 ± 0.02
 h6



+ Preferred choice / Premier choix ○ Second choice / Second choix ▼ Roughing / Ebauche ▼▼ Pre-finishing / Semi-finition ▼▼▼ Finishing / Finition

Designation Réf. de l'article	D	d	d8	LT	L1	a	R	Typ	Z	kg
INNOT060.010.019Z5C	6	6	5,6	55	19	13	0,1	1	5	0,019
INNOT080.010.025Z5C	8	8	7,5	61	25	17	0,1	1	5	0,030
INNOT100.010.033Z5C	10	10	9,5	72	33	22	0,1	1	5	0,070
INNOT120.020.038Z5C	12	12	11,5	83	38	26	0,2	1	5	0,110
INNOT160.020.050Z5C	16	16	15,5	98	50	34	0,2	1	5	0,300
INNOT160.020.050Z5W	16	16	15,5	98	50	34	0,2	2	5	0,300
INNOT200.020.062Z5C	20	20	19,5	112	62	42	0,2	1	5	0,450
INNOT200.020.062Z5W	20	20	19,5	112	62	42	0,2	2	5	0,450

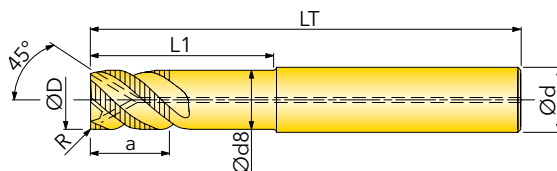
Shaft version in DIN6535HA/HB, different corner radii and tool lengths on request! / Queue disponible en version DIN6535HA/HB, autres rayons et longueurs sur demande.

INNOVATIVE^{ALU} SERRATED ROUGHING END MILL Z=3 FRAISE ALU RAVAGEUSE, Z=3 - REVÊTUE

ADAPTION ACC. TO DIN 6535 HA
 ATTACHEMENT DIN 6535 HA



Special roughing end mill in serrated geometry for aluminum machining with internal coolant.
 Fraise à géométrie ravageuse avec arrosage par le centre pour l'usinage de l'Aluminium.



Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)	▼	D C/R d	e8 ± 0.05 h6							
IN1205				+												

+ Preferred choice / Premier choix
 ○ Second choice / Second choix
 ▼ Roughing / Ebauche
 ▼▼ Pre-finishing / Semi-finition
 ▼▼▼ Finishing / Finition

Designation Réf. de l'article	D	d	d8	LT	L1	a	R	Z		
INNOV080.020.041Z3CCB	8	8	7,5	83	41	12	0,2	3	✓	0,080
INNOV100.020.041Z3CCB	10	10	9,1	83	41	12	0,2	3	✓	0,090
INNOV100.200.041Z3CCB	10	10	9,1	83	41	12	2	3	✓	0,090
INNOV120.020.041Z3CCB	12	12	11	87	41	12	0,2	3	✓	0,130
INNOV120.200.041Z3CCB	12	12	11	87	41	12	2	3	✓	0,130
INNOV120.400.041Z3CCB	12	12	11	87	41	12	4	3	✓	0,130
INNOV160.200.047Z3CCB	16	16	15	97	47	14	2	3	✓	0,250
INNOV160.020.060Z3CCB	16	16	15	109	60	14	0,2	3	✓	0,300
INNOV160.200.060Z3CCB	16	16	15	109	60	14	2	3	✓	0,300
INNOV160.400.060Z3CCB	16	16	15	109	60	14	4	3	✓	0,300
INNOV200.020.060Z3CCB	20	20	18,8	111	60	17	0,2	3	✓	0,430
INNOV200.200.060Z3CCB	20	20	18,8	111	60	17	2	3	✓	0,430
INNOV200.400.060Z3CCB	20	20	18,8	111	60	17	4	3	✓	0,430
INNOV200.400.100Z3CCB	20	20	18,8	150	100	30	4	3	✓	0,430

Shaft version in DIN6535 B, different corner radii and tool lengths on request! / Queue disponible en version DIN6535 B, autres rayons et longueurs sur demande.

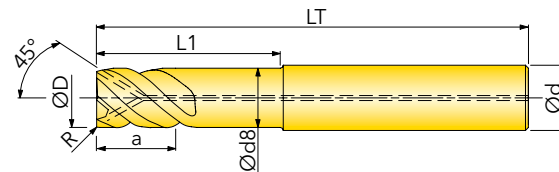
INNOVATIVE^{ALU} HPC END MILL Z=3 (ALU) **FRAISE HPC Z=3 POUR L'USINAGE DE L'ALUMINIUM**

ADAPTION ACC. TO DIN 6535 HA
ATTACHEMENT DIN 6535 HA



Special developed HPC-geometry for rough and finish milling of aluminum. Irregular division with internal coolant, reduced shaft diameter behind the effective cutting edge.

Géométrie HPC développée spécialement pour l'ébauche et la finition de l'Aluminium. Pas décalés avec arrosage par le centre, Queue dégagée.



Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)		D	h6							
IN05S				+				C/R	± 0.05							
								d	h6							

+ Preferred choice / Premier choix ○ Second choice / Second choix ▼ Roughing / Ebauche ▼▼ Pre-finishing / Semi-finition ▼▼▼ Finishing / Finition

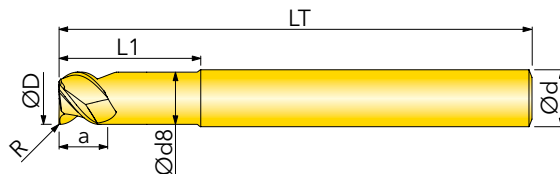
Designation Réf. de l'article	D	d	d8	LT	L1	a	R	Z		
INNOV080.020.040Z3C	8	8	7,5	79	40	12	0,2	3	✓	0,06
INNOV080.200.041Z3C	8	8	7,5	79	41	12	2	3	✓	0,06
INNOV100.020.041Z3C	10	10	9,1	83	41	15	0,2	3	✓	0,09
INNOV100.200.041Z3C	10	10	9,1	83	41	15	2	3	✓	0,09
INNOV120.020.041Z3C	12	12	11,0	88	41	18	0,2	3	✓	0,15
INNOV120.200.041Z3C	12	12	11,0	88	41	18	2	3	✓	0,13
INNOV120.400.041Z3C	12	12	11,0	88	41	18	4	3	✓	0,13
INNOV160.050.060Z3C	16	16	15,3	109	60	40	0,5	3	✓	0,26
INNOV160.200.060Z3C	16	16	15,3	109	60	40	2	3	✓	0,26
INNOV160.400.060Z3C	16	16	15,3	109	60	40	4	3	✓	0,30
INNOV160.200.065Z3C	16	16	15,3	114	65	24	2	3	✓	0,35
INNOV200.020.065Z3C	20	20	18,8	115	65	30	0,2	3	✓	0,43
INNOV200.200.060Z3C	20	20	18,8	110	60	30	2	3	✓	0,43
INNOV200.020.100Z3C	20	20	18,8	150	100	30	0,2	3	✓	0,53

Shaft version in DIN6535 B, different corner radii and tool lengths on request! / Queue disponible en version DIN6535 B, autres rayons et longueurs sur demande.

ADAPTION ACC. TO DIN 6535 HA
ATTACHEMENT DIN 6535 HA



High material removal for machining nickel-based alloys like Inconel.
Grand débit copeaux dans l'usinage des alliages à base Nickel tel que l'Inconel Fraise Grande Avance Céramique



Grade Nuance	P	M	K	N _(K)	S _(M)	H _(PK)		D	0/-0,02								
IN75N			+		+			d	h6								

+ Preferred choice / Premier choix ○ Second choice / Second choix ▼ Roughing / Ebauche ▼▼ Pre-finishing / Semi-finition ▼▼▼ Finishing / Finition

Designation Réf. de l'article	D	d	d8	LT	L1	a	R	Z	kg
INCER060.042.015Z3	6	6	5,5	50	15	6	0,42	3	0,010
INCER080.056.020Z3	8	8	7,5	57	20	8	0,56	3	0,036
INCER100.070.025Z3	10	10	9,5	65	25	8	0,70	3	0,064
INCER120.110.030Z3	12	12	11,5	72	30	10	1,10	3	0,101
INCER160.190.035Z3	16	16	15,5	83	35	12	1,90	3	0,200

R (Programming radius) / R (Rayon de programmation)