

INGERSOLL MILLING AND BORING TOOLS
INGERSOLL OUTILS DE FRAISAGE





Ingersoll Werkzeuge GmbH is specialized in the production of cutting tools with an excellent vibration-free performance in both standard and special-purpose design.

In addition to very successful solutions for heavy-duty milling and the project-oriented development of special cutting tool solutions, we offer a whole range of technology potential which is applied by the most various industries. The close cooperation with our customers for the development of technically demanding solutions for machining problems is the basis of long-term and durable partnerships – worldwide. Small as well as medium-sized companies but also international enterprises trust our professional qualification and profit from the reliability and process security of our cutting tools.





Ingersoll Werkzeugze GmbH est une entreprise spécialisée dans la fabrication d'outils coupants. Les produits standards et spéciaux sont très performants, particulièrement en matière de rigidité.

En plus de nos solutions innovantes pour le fraisage lourd et notre orientation vers le développement d'outils coupants spéciaux, nous offrons une gamme complète pouvant répondre aux technologies appliquées dans la plupart des industries. Travailler en étroite collaboration avec nos clients afin de développer des solutions techniques en matière de fraisage, est pour nous la base d'un partenariat durable, dans le monde entier. Notre professionnalisme ainsi que la fiabilité de nos outils et la sécurité de nos process sont reconnus à la fois par des petites et moyennes entreprises mais aussi par des groupes internationaux.



Ingersoll's standard program comprises a broad and worldwide established range of cutting tools, suitable for the most various applications.

This range of cutting tools is constantly expanded: End mills, shell end mills, shoulder-type milling cutters, face mills, slotting cutters, form milling cutters, indexable drills, solid carbide, adaptions, set-up equipment and indexable inserts. With a complete line of turning and engraving tools we can now offer our customers a new group of products, thus expanding our capabilities as a broad-range supplier. The development and production of special-purpose tools according to customer-specific requirements is another important factor for Ingersoll Werkzeuge GmbH. Our know-how and great potential of experience, combined with our own demand for quality, functionality and innovation, guarantees our customers the optimum cutting tool solution – for individual machining tasks, for all industries.





Le programme standard d'ingersoll se compose d'une gamme complète d'outils coupants reconnue au niveau international et adaptée à la plupart des applications.

Cette gamme d'outils coupants se développe constamment: fraise à surfacer, à dresser, à rainurer, 3 tailles, fraises de forme, attachements, moyens de réglage et plaquettes indexables. La seconde activité importante d'Ingersoll outils coupants est le développement et la fabrication d'outils spéciaux, réalisés selon la demande spécifique du client. Notre savoir faire ainsi que notre expérience, alliés à un souci de qualité, de fonctionnalité et d'innovation garantissent à nos clients des solutions optimales d'outils coupants pour tous les types d'usinage et d'industries.



Product range

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ISO-DESIGNATION OF INDEXABLE INSERTS / SYSTÈME DE DÉSIGNATION ISO-PLAQUETTES

O	N	C	U	05																																																				
INSERT SHAPE FORME DE LA PLAQUETTE	CLEARANCE ANGLE ANGLE DE DÉPOUILLE	TOLERANCES TOLÉRANCE	INSERT TYPE TYPE	CUTTING EDGE LENGTH LONGUEUR D'ARÊTE DE COUPE																																																				
		<table><thead><tr><th></th><th>d</th><th>m</th><th>s</th></tr></thead><tbody><tr><td>A</td><td>±0,025</td><td>±0,005</td><td>±0,025</td></tr><tr><td>C</td><td>±0,025</td><td>±0,013</td><td>±0,025</td></tr><tr><td>E</td><td>±0,025</td><td>±0,025</td><td>±0,025</td></tr><tr><td>F</td><td>±0,013</td><td>±0,005</td><td>±0,025</td></tr><tr><td>G</td><td>±0,025</td><td>±0,025</td><td>±0,05-0,13</td></tr><tr><td>H</td><td>±0,013</td><td>±0,013</td><td>±0,025</td></tr><tr><td>J¹</td><td>±0,05-0,15²</td><td>±0,005</td><td>±0,025</td></tr><tr><td>K¹</td><td>±0,05-0,15²</td><td>±0,013</td><td>±0,025</td></tr><tr><td>L¹</td><td>±0,05-0,15²</td><td>±0,013</td><td>±0,025</td></tr><tr><td>M</td><td>±0,05-0,15²</td><td>±0,08-0,20²</td><td>±0,013</td></tr><tr><td>N</td><td>±0,05-0,15²</td><td>±0,08-0,20²</td><td>±0,025</td></tr><tr><td>U</td><td>±0,05-0,25²</td><td>±0,13-0,38²</td><td>±0,05-0,13</td></tr></tbody></table>		d	m	s	A	±0,025	±0,005	±0,025	C	±0,025	±0,013	±0,025	E	±0,025	±0,025	±0,025	F	±0,013	±0,005	±0,025	G	±0,025	±0,025	±0,05-0,13	H	±0,013	±0,013	±0,025	J ¹	±0,05-0,15 ²	±0,005	±0,025	K ¹	±0,05-0,15 ²	±0,013	±0,025	L ¹	±0,05-0,15 ²	±0,013	±0,025	M	±0,05-0,15 ²	±0,08-0,20 ²	±0,013	N	±0,05-0,15 ²	±0,08-0,20 ²	±0,025	U	±0,05-0,25 ²	±0,13-0,38 ²	±0,05-0,13		
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U = High feed geometry Géométrie grande avance Z = Chip breaker geometry Géométrie du brise copeaux	0 = others autres	¹ Inserts with ground wiper ² Depending on insert size (see ISO standard 1832) ¹ Plaquettes racleuse de finition ² Selon les dimensions de plaquettes (voir Norme ISO 1832)	X = Special design (description required) X = Version spécial (description requise)																																																					

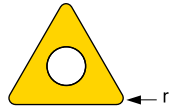
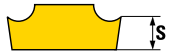
05

AN

T

N

HR

INSERT THICKNESS
ÉPAISSEUR DE PLAQUETTECORNER RADIUS
RAYON DE BECCUTTING EDGE
ARÊTE DE COUPECUTTING DIRECTION
DIRECTION DE COUPEINTERNAL DESIGNATION
DÉSIGNATION INTERNE

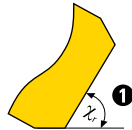
02	r = 0,2
04	r = 0,4
08	r = 0,8
12	r = 1,2
16	r = 1,6
24	r = 2,4

00 dia. in inch measures
converted to mm

M0 dia. in metric measures

00 dia. avec des mesures en
inch converties en mm

M0 dia. en mesures métrique

① Lead angle λ_r
Angle d'attaque λ_r

A = 45°

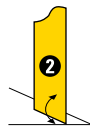
D = 60°

E = 75°

F = 85°

P = 90°

Z = others / autres

② Clearance angle on wiper
Angle de dépouille

A = 3°

B = 5°

C = 7°

D = 15°

E = 20°

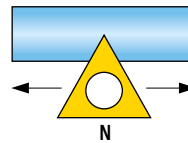
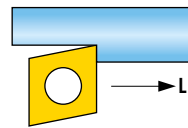
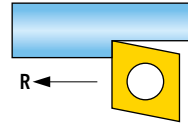
F = 25°

G = 30°

N = 0°

P = 11°

Z = other / autres

rounded /
honingsharp edge/
angle vifwith K-land /
chanfrein d'arêtewith K-land & rounded /
chanfrein & honing

For example:

P = Polished

W = With wiper
finishing edge /
facette

HR = Heat grooves

Par exemple:

P = Polie

W = Plaquette avec
arête de planageHR = Rainures de
refroidissement

01 s=1,59

T1 s= 1,98

02 s= 2,38

T2 s= 2,78

03 s= 3,18

T3 s= 3,97

04 s= 4,76

05 s= 5,56

06 s= 6,35

07 s= 7,94

09 s= 9,52

DESIGNATION SYSTEM OF SOLID CARBIDE MILLING CUTTERS / SYSTÈME DE DÉSIGNATION FRAISES CARBURE MONOBLOC

X	X	A	XXX
TOOL TYPE TYPE OUTIL	DENSITY PAS	STYLE STYLE	TOOL DIAMETER DIAMÈTRE OUTIL
1 End or shell-type mill with straight flute / Fraises en bout avec goujures droites 2 Stepped end mills / Fraises an bout étagées 4 Solid carbide end mills & screw-type mills, helical flute / Fraises carbure monobloc	5 Solid carbide, 1 & 2 no. of flutes, large spacing / Carbure monobloc, 1 & 2 goujures, pas large 6 Solid carbide, 3 no. of flutes, normal spacing / Carbure monobloc, 3 goujures, espacement normal 7 Solid carbide, 4 & 5 no. of flutes, narrow spacing / Carbure monobloc, 4&5 goujures, pas fin 8 Solid carbide, 6-9 no. of flutes, extra narrow spacing / Carbure monobloc, 6-9 goujures, pas très fin 9 Solid carbide, 10 or more flutes, extra narrow spacing / Carbure monobloc, 10 et plus goujures, pas extra fin R Blank / Brut	A High speed cutter / Fraises à haute vitesse B Ball nose cutter - cylindrical / Fraise à copier - cylindrique C 90° cutting angle with chamfer on cutting edge / Angle de coupe à 90° avec chanfrein d'arête D 90° cutting angle with radius on cutting edge / Angle de coupe à 90° avec rayon d'arête J 90° cutting angle with sharp cutting edge / Angle de coupe à 90° avec arête vive M 60° - 74° cutting angle / Angle de coupe 60° - 74° N 45° - 59° cutting angle / Angle de coupe 45° - 59° P 1° - 44° cutting angle / Angle de coupe 1° - 44° R Outside radius chamfer mill / Fraises à rayons concaves T T-slot mill / Fraises disques U Torus form mill / Fraises toriques X Ball nose mill - spherical / Fraises boule - sphérique Y Thread mill / Fraises à fileter Z Centering mil / Foret à centrer	3-digit number e.g. diameter 12.0mm = 120 3 chiffres digitaux 12,0mm = 120

XX**CUTTING LENGTH OR TOOL HEIGHT
LONGUEUR DE COUPE**

2-digit number
e.g. cutting edge 7.0mm = 70

2 chiffres digitaux
par exemple longueur de coupe
7,0mm = 70

EE**ADAPTION CODE
CODE ATTACHEMENT**

T0 8 mm cyl. shank / queue cyl.
T1 10 mm cyl. shank / queue cyl.
T2 12 mm cyl. shank / queue cyl.
T3 16 mm cyl. shank / queue cyl.
T4 20 mm cyl. shank / queue cyl.
T5 25 mm cyl. shank / queue cyl.
T6 ChipSurfer thread / filetage Ts 6
T7 6 mm cyl. shank / queue cyl.
T8 ChipSurfer thread / filetage Ts 8
T9 3 mm cyl. shank / queue cyl.
TQ ChipSurfer thread / filetage Ts 5
TR ChipSurfer thread / filetage Ts 10
TS ChipSurfer thread / filetage Ts 12
TU ChipSurfer thread / filetage Ts 15
UA 7 mm cyl. shank / queue cyl.
UD 2 mm cyl. shank / queue cyl.
UE 2,5 mm cyl. shank / queue cyl.
UF 3,5 mm cyl. shank / queue cyl.
UG 4,5 mm cyl. shank / queue cyl.
UH 5,5 mm cyl. shank / queue cyl.
U0 4 mm cyl. shank / queue cyl.
U1 5 mm cyl. shank / queue cyl.
U2 18 mm cyl. shank / queue cyl.
U8 14 mm cyl. shank / queue cyl.
U9 9 mm cyl. shank / queue cyl.
WE 6 mm Weldon DIN 6535 HB
WF 14 mm Weldon DIN 6535 HB
WG 18 mm Weldon DIN 6535 HB
W0 8 mm Weldon DIN 6535 HB
W1 10 mm Weldon DIN 6535 HB
W2 12 mm Weldon DIN 6535 HB
W3 16 mm Weldon DIN 6535 HB
W4 20 mm Weldon DIN 6535 HB
W5 25 mm Weldon DIN 6535 HB
WR 5 mm Weldon DIN 6535 HB

H**ROTATING DIRECTION
SENS DE ROTATION**

R R. H. mills
droite
L L. H. mills
gauche
 - neutral (R. H. / L. H.)
neutre

00**STANDARD OR SPECIAL TOOL
STANDARD OU SPECIAL**

A 0°-25° pos. helical angle /
0°-25° angle d'hélice pos.
B 26°-34° pos. helical angle /
26°-34° angle d'hélice pos.
C 35°-44° pos. helical angle /
35°-44° angle d'hélice pos.
D pos. helical angle > 45°/
angle d'hélice pos. >45°
F 0°-25° neg. helical angle /
0°-25° angle d'hélice nég
G 26°-34° neg. helical angle /
26°-34° angle d'hélice nég.
H 35°-44° neg. helical angle /
35°-44° angle d'hélice nég.
J neg. helical angle > 45°/
angle d'hélice nég. >45°
K neg. chamfer
chamfrein nég
L 0°-30° pos. helical angle with
chipbreaker /
0° - 30° angle d'hélice pos. avec
brise copeaux
M 31°-44° pos. helical angle with
chipbreaker /
31° - 44° angle d'hélice pos. avec
brise copeaux
N > 45° pos. helical angle with chip
breaker resp. neutral slot mill /
> 45° angle d'hélice pos. avec
brise copeaux
P positive slot mill
Fraise disque pos.
Q HPC divers spacing /
HPC pas décalé
T HPC divers spacing and divers
helical angle /
HPC fraise à hélice et pas décalé
U 45° roughing and finishing /
45° ébauche et finition
W High precision cutter /
Fraise haute précision

TABLE OF GRADES

	Grade	Coating	ISO-group	milling	drilling	solid carbide	Application and Material
Carbide	IN05S	-	N10-N25	•			for machining of AL-alloys and non-ferrous materials
	IN10K	-	K10-K25	•			for finish machining of cast iron
			N10-N25	• •			for finish machining of AL-alloys and non-ferrous materials
	IN15K	-	N15-N30	•			for machining of AL-alloys and non-ferrous materials
PVD coated	IN2004	TiAlN	P10-P20	•			for milling of alloyed steel
			K10-K25	•			for medium machining of gray cast iron - especially CGI
			H05-H15	•			for finish machining of hardened steel at medium up to high cutting speed
	IN2005	TiAlN	P15-P30	• • •			for general machining of steel at high cutting speed
			M15-M35	• • •			for general machining of stainless steel
			K20-K40	• • •			for general machining of cast iron
			S05-S20	•			for general milling of heat resistant alloys and titanium also for wet machining
	IN2006	TiAlN	P05-P20	•			for finish machining at high cutting speed and low cutting depth
			H05-H20	•			for finish machining of hardened steel up to 63 HRC
	IN2010	TiAlN	K10-K30	• •			for finish machining and drilling of cast iron material
	IN2035	TiAlN	P25-P50	•			for high feed machining of steel
			M20-M40	•			for machining of stainless and austenitic steel and heat resistant alloys
			S20-S30	•			mainly for milling of materials of machining group ,S'
	IN2040	TiAlN	P15-P35	•			for finish machining of unalloyed steel and tempered steel
	IN2504	TiAlN / TiN	P05-P25	•			for milling of steel at medium up to high cutting speed
			H05-H25	•			for milling of hardened steel at medium up to high cutting speed
	IN2505	TiAlN / TiN	P15-P30	• •			for semi-finish and rough machining of steel with high strength
			M15-M35	• •			for general machining of stainless steel
			S05-S20	• •			for general machining of heat resistant alloys
	IN2510	TiAlN / TiN	K10-K30	•			for general machining of gray cast and non-ferrous metal
	IN2515	TiAlN / TiN	P20-P35	•			for milling of steel with high strength at medium cutting speed
			K30-K50	•			for general machining of gray cast and nodular cast iron
	IN2530	TiAlN / TiN	P20-P40	• •			tough grade for general machining of steel
			M15-M30	• •			for general machining of stainless steel
			K20-K40	•			for general machining of cast iron
			S15-S30	• •			for general machining of heat resistant alloys
	IN2540	TiAlN / TiN	P15-P35	•			for semi-finish and rough machining of unalloyed steel and tempered steel
	IN4005	TiAlN / Al ₂ O ₃	P15-P30	•			for general machining of steel
			M15-M35	•			for general machining of stainless steel
			K20-K40	•			for general machining of cast iron
			S05-S20	•			for general machining of heat resistant alloys and titanium
	IN4010	TiAlN / Al ₂ O ₃	K10-K30	•			for general machining of cast iron
	IN4015	TiAlN / Al ₂ O ₃	P20-P35	•			for milling of steel with high strength at medium cutting speed
			K30-K50	•			for general milling of gray cast and nodular cast iron
	IN4030	TiAlN / Al ₂ O ₃	P20-P40	•			tough grade for general machining of steel
			M15-M30	•			for general machining of stainless and austenitic steel
			S15-S25	•			for general machining of heat resistant alloys
	IN4035	TiAlN / Al ₂ O ₃	P25-P50	•			for high feed machining of steel
			M20-M40	•			for machining of stainless steel, austenitic steel and heat resistant alloys
			S20-S30	•			mainly for milling of materials of machining group ,S'
	IN4040	TiAlN / Al ₂ O ₃	P15-P30	•			for medium machining of unalloyed and tempered steel
CVD coated	IN6505	TiCN / Al ₂ O ₃ / TiN	P10-P25		•		for drilling of steel, used only at peripheral insert of QUADOTWIST™ drill
	IN6520	TiCN / Al ₂ O ₃ / TiN	P10-P40		•		for drilling of steel, used only at peripheral insert of QUADODRILL™ drill
	IN6535	TiCN / Al ₂ O ₃ / TiN	M20-M35	•			for dry machining of stainless steel and heat resistant alloys at high cutting speed
			S15-S30	•			mainly for milling of materials of machining group ,S'
	IN7035	TiCN / Al ₂ O ₃ / TiCN	P20-P40	•			for high feed machining of steel
			M20-M35	•			for machining of stainless and austenitic steel and heat resistant alloys
			S15-S30	•			mainly for milling of materials of machining group ,S'
Cermet	IN0560	TiN	P05-P15	•			for finish machining of steel at medium up to high cutting speed
			M05-M15	•			for finish machining of stainless steel at medium up to high cutting speed
SiN	IN70N	-	K10-K20	•			for machining of gray cast at extremely high cutting speed
CBN	IN80B	-	K05-K15	•			for machining of surface hardened cast materials and chill cast
			H05-H15	•			for machining of hardened steel
PKD	IN90D	-	N01-N10	•			for machining of aluminum, non-ferrous materials and graphite

Application	Grade	ISO-group						
milling	IN2006	P05-P20					H05-H20	Hardness ↑ ↓ Toughness
	IN2004	P10-P20		K10-K20			H05-H15	
	IN4010			K10-K30				
	IN2510			K10-K30				
	IN2005	P15-P30	M15-M35	K20-K40		S05-S20		
	IN2505	P15-P30	M15-M35			S05-S20		
	IN4040	P15-P30						
	IN2540	P15-P35						
	IN4015	P20-P30		K30-K50				
	IN2515	P20-P30		K30-K50				
	IN4030	P20-P40	M15-M30			S15-S25		
	IN2530	P20-P40	M15-M30	K20-K40		S15-S25		
	IN6535		M20-M35			S15-S30		
	IN7035	P20-P40	M20-M35			S15-S30		
	IN4035	P25-P50	M20-M40			S20-S30		
	IN2035	P25-P50	M20-M40			S20-S30		
drilling	IN2010			K10-K30				Hardness ↑ ↓ Toughness
	IN6505	P10-P25						
	IN6520	P10-P40						
	IN2505	P20-P40	M20-M40			S05-S20		
	IN2005	P15-P30	M15-M35	K20-K40		S05-S20		
solid carbide	IN2504	P05-P25					H05-H25	Hardness ↑ ↓ Toughness
	IN2006	P05-P20					H05-H20	
	IN2005	P15-P30	M15-M35	K20-K40		S05-S20		

TABLE DES NUANCE

Nuance	Revêtement	Groupe ISO	Fraisage	Perçage	Carbure Mono.	Application et Matières
Carbure	IN05S	-	N10-N25	•	•	pour usiner des alliages d'Al et des matériaux non ferreux
	IN10K	-	K10-K25	•	•	pour la finition des fontes
	IN10K	-	N10-N25	• •	•	pour la finition d'alliages d'Al et de matériaux non ferreux
	IN15K	-	N15-N30	•	•	pour usiner des alliages d'Al et des matériaux non ferreux
PVD coated	IN2004	TiAlN	P10-P20 K10-K25 H05-H15	•	•	pour le fraisage d'aciers alliés
	IN2004	TiAlN	P10-P20 K10-K25 H05-H15	•	•	pour la semi-finition des fontes grises (à graphite lamellaire) - spécialement les GGV
	IN2004	TiAlN	P10-P20 K10-K25 H05-H15	•	•	pour la finition des aciers traités avec des vitesses de coupe moyennes à élevées
	IN2005	TiAlN	P15-P30 M15-M35 K20-K40 S05-S20	• • •	•	pour l'usinage d'aciers à de hautes vitesses de coupe
	IN2005	TiAlN	P15-P30 M15-M35 K20-K40 S05-S20	• • •	•	pour l'usinage d'aciers inoxydables
	IN2005	TiAlN	P15-P30 M15-M35 K20-K40 S05-S20	• • •	•	pour l'usinage des fontes
	IN2005	TiAlN	P15-P30 M15-M35 K20-K40 S05-S20	• • •	•	pour l'usinage d'alliages exotiques et Titane sous arrosage
	IN2006	TiAlN	P05-P20 H05-H20	•	•	pour l'usinage à de hautes vitesses de coupe avec des faibles ap
	IN2006	TiAlN	P05-P20 H05-H20	•	•	pour l'usinage des aciers traités jusqu'à 63 HRC
	IN2010	TiAlN	K10-K30	• •	•	pour les usinages de finition et le perçage des fontes
	IN2010	TiAlN	P25-P50	•	•	pour l'usinage grande avance d'aciers
	IN2035	TiAlN	M20-M40 S20-S30	•	•	pour l'usinage des aciers inoxydables et des alliages réfractaires
	IN2035	TiAlN	M20-M40 S20-S30	•	•	principalement pour les matières faisant partie du Groupe "S"
	IN2040	TiAlN	P15-P35	•	•	pour la semi-finition d'aciers non alliés et aciers revenus
	IN2504	TiAlN / TiN	P05-P25 H05-H25	•	•	pour le fraisage d'aciers à des vitesses de coupe moyennes à élevées
	IN2504	TiAlN / TiN	P05-P25 H05-H25	•	•	pour le fraisage d'aciers traités à des vitesses de coupe moyennes à élevées.
	IN2505	TiAlN / TiN	P15-P30 M15-M35 S05-S20	• •	•	pour la semi-finition et l'ébauche d'aciers à haute résistance
	IN2505	TiAlN / TiN	P15-P30 M15-M35 S05-S20	• •	•	pour les applications générales d'aciers inoxydables
	IN2505	TiAlN / TiN	P15-P30 M15-M35 S05-S20	• •	•	pour les applications générales dans les matériaux exotiques
	IN2510	TiAlN / TiN	K10-K30	•	•	pour l'usinage des fontes grises et des matériaux non ferreux
	IN2515	TiAlN / TiN	P20-P35 K30-K50	•	•	pour le fraisage d'aciers à haute résistance à des vitesses de coupe moyennes
	IN2515	TiAlN / TiN	P20-P35 K30-K50	•	•	pour l'usinage général des fontes grises et des fontes ductiles
	IN2530	TiAlN / TiN	P20-P40 M15-M30 K20-K40 S15-S30	• •	•	Nuance résistante pour les applications d'usinage des aciers
	IN2530	TiAlN / TiN	P20-P40 M15-M30 K20-K40 S15-S30	• •	•	pour l'usinage général des aciers inoxydables
	IN2530	TiAlN / TiN	P20-P40 M15-M30 K20-K40 S15-S30	• •	•	pour l'usinage général des fontes
	IN2530	TiAlN / TiN	P20-P40 M15-M30 K20-K40 S15-S30	• •	•	pour l'usinage général des matériaux réfractaires
	IN2540	TiAlN / TiN	P15-P35	•	•	pour la semi-finition et ébauche des aciers non alliés et des aciers revenus
	IN4005	TiAlN / Al ₂ O ₃	P15-P30 M15-M35 K20-K40 S05-S20	•	•	pour l'usinage général des aciers
	IN4005	TiAlN / Al ₂ O ₃	P15-P30 M15-M35 K20-K40 S05-S20	•	•	pour l'usinage général des aciers inoxydables
	IN4005	TiAlN / Al ₂ O ₃	P15-P30 M15-M35 K20-K40 S05-S20	•	•	pour l'usinage général des fontes
	IN4005	TiAlN / Al ₂ O ₃	P15-P30 M15-M35 K20-K40 S05-S20	•	•	pour l'usinage général des matériaux réfractaires et du Titane
	IN4010	TiAlN / Al ₂ O ₃	K10-K30	•	•	pour l'usinage général des fontes
	IN4015	TiAlN / Al ₂ O ₃	P20-P35 K30-K50	•	•	pour le fraisage d'aciers à haute résistance à des vitesses de coupe moyennes
	IN4015	TiAlN / Al ₂ O ₃	P20-P35 K30-K50	•	•	pour le fraisage général des fontes grises et des fontes ductiles
	IN4030	TiAlN / Al ₂ O ₃	P20-P40 M15-M30 S15-S25	•	•	nuance résistante pour l'usinage général des aciers
	IN4030	TiAlN / Al ₂ O ₃	P20-P40 M15-M30 S15-S25	•	•	pour l'usinage général des inox et des aciers austénitiques
	IN4030	TiAlN / Al ₂ O ₃	P20-P40 M15-M30 S15-S25	•	•	pour l'usinage général des alliages réfractaires
	IN4035	TiAlN / Al ₂ O ₃	P25-P50 M20-M40 S20-S30	•	•	pour l'usinage général des aciers
	IN4035	TiAlN / Al ₂ O ₃	P25-P50 M20-M40 S20-S30	•	•	pour l'usinage des aciers inoxydables, aciers austénitiques et alliages exotiques
	IN4035	TiAlN / Al ₂ O ₃	P25-P50 M20-M40 S20-S30	•	•	principalement pour les matières faisant partie du Groupe "S"
	IN4040	TiAlN / Al ₂ O ₃	P15-P30	•	•	pour l'ébauche moyenne d'aciers non alliés et revenus
CVD coated	IN6505	TiCN / Al ₂ O ₃ / TiN	P10-P25	•	•	pour le perçage des aciers, utilisé uniquement en périphérie du foret QUADOTWIST™
	IN6520	TiCN / Al ₂ O ₃ / TiN	P10-P40	•	•	pour le perçage des aciers, à utiliser uniquement en périphérie du foret QUADODRILL™
	IN6535	TiCN / Al ₂ O ₃ / TiN	M20-M35 S15-S30	•	•	pour l'usinage à sec des aciers inoxydables et des alliages exotiques à de hautes Vc
	IN6535	TiCN / Al ₂ O ₃ / TiN	M20-M35 S15-S30	•	•	principalement pour le fraisage des matières faisant partie du Groupe "S"
	IN7035	TiCN / Al ₂ O ₃ / TiCN	P20-P40 M20-M35 S15-S30	•	•	pour l'usinage grande avance des aciers
	IN7035	TiCN / Al ₂ O ₃ / TiCN	P20-P40 M20-M35 S15-S30	•	•	pour l'usinage inox et aciers austénitiques et des alliages exotiques
	IN7035	TiCN / Al ₂ O ₃ / TiCN	P20-P40 M20-M35 S15-S30	•	•	principalement pour le fraisage des matières faisant partie du Groupe "S"
Cermet	IN0560	TiN	P05-P15 M05-M15	•	•	pour la finition des aciers à des vitesses de coupe moyennes à élevées
	IN0560	TiN	P05-P15 M05-M15	•	•	pour la finition des aciers inoxydables à des vitesses de coupe moyennes à élevées
SiN	IN70N	-	K10-K20	•	•	pour l'usinage des fontes grises à de très hautes vitesses de coupe
CBN	IN80B	-	K05-K15 H05-H15	•	•	pour l'usinage des matériaux durs et trempés
	IN80B	-	K05-K15 H05-H15	•	•	pour l'usinage des aciers traités
PKD	IN90D	-	N01-N10	•	•	pour l'usinage de l'aluminium, des matériaux non-ferreux et du graphite

Application	Nuance	Groupe ISO						
Fraisage	IN2006	P05-P20					H05-H20	Dureté ↑ Ténacité ↓
	IN2004	P10-P20		K10-K20			H05-H15	
	IN4010			K10-K30				
	IN2510			K10-K30				
	IN2005	P15-P30	M15-M35	K20-K40		S05-S20		
	IN2505	P15-P30	M15-M35			S05-S20		
	IN4040	P15-P30						
	IN2540	P15-P35						
	IN4015	P20-P30		K30-K50				
	IN2515	P20-P30		K30-K50				
	IN4030	P20-P40	M15-M30			S15-S25		
	IN2530	P20-P40	M15-M30	K20-K40		S15-S25		
	IN6535		M20-M35			S15-S30		
	IN7035	P20-P40	M20-M35			S15-S30		
	IN4035	P25-P50	M20-M40			S20-S30		
	IN2035	P25-P50	M20-M40			S20-S30		
Perçage	IN2010			K10-K30				Dureté ↑ Ténacité ↓
	IN6505	P10-P25						
	IN6520	P10-P40						
	IN2505	P20-P40	M20-M40			S05-S20		
	IN2005	P15-P30	M15-M35	K20-K40		S05-S20		
Carbure Monobloc	IN2504	P05-P25					H05-H25	Dureté ↑ Ténacité ↓
	IN2006	P05-P20					H05-H20	
	IN2005	P15-P30	M15-M35	K20-K40		S05-S20		





END MILLS
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EXTENDED FLUTE END MILLS
FRAISES HERISSON
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FRAISES DISQUES
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FORM MILLS
FRAISES DE FORME
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COPY & PLUNGING MILLS
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FRAISES GRANDES AVANCES
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END MILLS / FRAISES EN BOUT

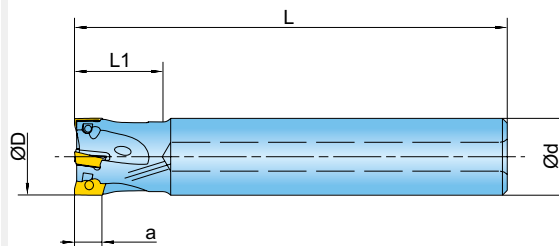
	D	a	Description	Code / Série	Page
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	9,5 - 25	5,7	HIPOPOS® End Mill 12J1D...W Fraise en bout 12J1D...W	12J1D...W	21
	10 - 35	5,7	HIPOPOS® End Mill 12J1D...X Fraise en bout 12J1D...X	12J1D...X	22
	10 - 20	5,7	HIPOPOS® End Mill 12J1D... Fraise en bout 12J1D...	12J1D...	23
	12 - 25	9	HIPOPOS™ End Mill 12J1P...W Fraise en bout 12J1P...W	12J1P...W	24
	16 - 32	9	HIPOPOS™ End Mill 12J1P...Z Fraise en bout 12J1P...Z	12J1P...Z	26
	12 - 32	9	HIPOPOS™ End Mill 12J1P...X Fraise en bout 12J1P...X	12J1P...X	28
	20 - 32	12	HIPOPOS™ End Mill 12J1R...W Fraise en bout 12J1R...W	12J1R...W	30
	20 - 32	12	HIPOPOS™ End Mill 12J1R...Z Fraise en bout 12J1R...Z	12J1R...Z	32
	20 - 40	12	HIPOPOS™ End Mill 12J1R...X Fraise en bout 12J1R...X	12J1R...X	34
	20 - 40	7	HIPOSTRIO™ End Mill 1KJ1D...W Fraise en bout 1KJ1D...W	1KJ1D...W	36
	20 - 40	7	HIPOSTRIO™ End Mill 1KJ1D...X Fraise en bout 1KJ1D...X	1KJ1D...X	37
	32 - 40	11	HIPOSTRIO™ End Mill 1KJ1G...W Fraise en bout 1KJ1G...W	1KJ1G...W	38
	32 - 40	11	HIPOSTRIO™ End Mill 1KJ1G...X Fraise en bout 1KJ1G...X	1KJ1G...X	39

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



Member IMC Group
Ingersoll
Cutting Tools

ADAPTION ACC. TO DIN 1835 A
ATTACHEMENT DIN 1835 A



Designation Réf. de l'article	D	d	L	L1	a	Z	⊖	IK	kg
12J1D010016T1R00	10	10	55	16	5,7	2	10,0°	✓	0,03
12J1D012017T2R00	12	12	60	17	5,7	3	6,5°	✓	0,04
12J1D016019T3R00	16	16	90	19	5,7	4	4,0°	✓	0,11
12J1D020017T4R00	20	20	105	19	5,7	5	2,5°	✓	0,21
12J1D025065T4R00	25	20	115	65	5,7	7	2,0°	✓	0,24

Programming radius 1mm / Programmation - rayon 1mm

AOMT060202R		AOMT060204R		AOMT060208R	
AOMT060216R		AOCT060204FR-P		AOMT060202R-DT1	
UOMT0602TR					

Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2035	IN2505	IN2530	IN6535	IN90D	
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								
AOMT060216R¹⁾	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								
AOMT060202R-DT1	0,05/0,12	with short PCD-tip R0,2 / avec insert PCD version courte R0,2								
UOMT0602TR	0,30/0,80	high feed geometry / Géométrie haute avance								

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

● = P ● = M ● = K ● = N ● = S ○ = H

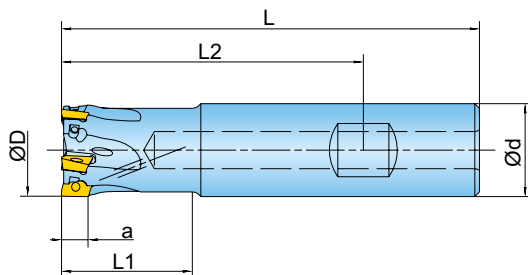
SPARE PARTS
ACCESSOIRES



SM18-041-00 (0,5Nm) DS-TP06S (TX-Plus)

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

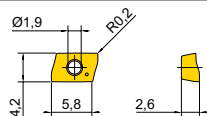
ADAPTION ACC. TO DIN 1835 B (WELDON)
ATTACHEMENT DIN 1835 B (WELDON)



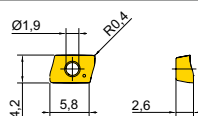
Designation Réf. de l'article	D	d	L	L1	L2	a	Z	°	IK	kg
12J1D010018W3R01	9,5	16	80	18	56	5,7	2	10,5°	✓	0,09
12J1D010018W3R00	10	16	80	18	56	5,7	2	10,0°	✓	0,09
12J1D012020W3R01	11,5	16	80	20	56	5,7	3	7,0°	✓	0,09
12J1D012020W3R00	12	16	80	20	56	5,7	3	6,5°	✓	0,09
12J1D014022W3R01	13,5	16	80	22	56	5,7	3	5,5°	✓	0,09
12J1D014022W3R00	14	16	80	22	56	5,7	3	5,2°	✓	0,09
12J1D016026W3R00	16	16	85	26	61	5,7	4	4,0°	✓	0,10
12J1D020030W4R00	20	20	90	30	65	5,7	5	2,5°	✓	0,17
12J1D025040W5R00	25	25	100	40	68	5,7	7	2,0°	✓	0,31

Programming radius 1mm / Programmation - rayon 1mm

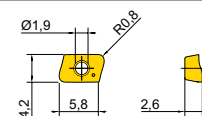
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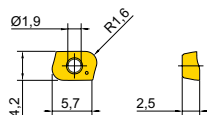
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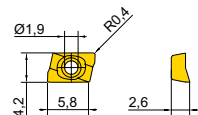
AOMT060208R



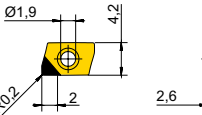
AOMT060216R



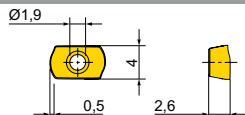
AOCT060204FR-P



AOMT060202R-DT1



UOMT0602TR



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2035	IN2505	IN2530	IN6535	IN90D		
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									
AOMT060202R-DT1	0,05/0,12	with short PCD-tip R0,2 / avec insert PCD version courte R0,2									
UOMT0602TR	0,30/0,80	high feed geometry / Géométrie haute avance									

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

● = P ● = M ● = K ● = N ● = S ○ = H

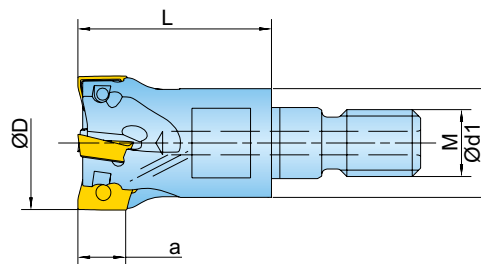
SPARE PARTS ACCESSOIRES



SM18-041-00 (0,5Nm) DS-TP06S (TX-Plus)

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

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	d1	L	a	M	Z	°	IK	kg
12J1D010017X4R00	10	9,8	17	5,7	6	2	10°	✓	0,01
12J1D012023X4R00	12	11,8	23	5,7	6	3	6,5°	✓	0,02
12J1D015023X5R00	15	13	23	5,7	8	4	4,4°	✓	0,02
12J1D016023X5R00	16	13	23	5,7	8	4	4,0°	✓	0,03
12J1D020030X6R00	20	18	30	5,7	10	5	2,5°	✓	0,06
12J1D025035X7R00	25	21	35	5,7	12	7	2,0°	✓	0,10
12J1D030043X8R00	30	29	43	5,7	16	8	1,7°	✓	0,21
12J1D032043X8R00	32	29	43	5,7	16	8	1,6°	✓	0,22
12J1D035043X8R00	35	29	43	5,7	16	9	1,4°	✓	0,24

Programming radius 1mm / Programmation - rayon 1mm

AOMT060202R		AOMT060204R		AOMT060208R	
AOMT060216R		AOCT060204FR-P		AOMT060202R-DT1	
UOMT0602TR					

Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2035	IN2505	IN2530	IN6535	IN90D		
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									
AOMT060216R¹⁾	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									
AOMT060202R-DT1	0,05/0,12	with short PCD-tip R0,2 / avec insert PCD version courte R0,2									
UOMT0602TR	0,30/0,80	high feed geometry / Géométrie haute avance									

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

● = P ● = M ● = K ● = N ● = S ○ = H

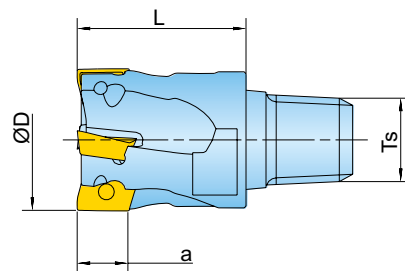
SPARE PARTS
ACCESSOIRES



SM18-041-00 (0,5Nm) DS-TP06S (TX-Plus)

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

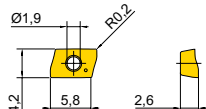
FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



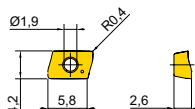
Designation Réf. de l'article	D	L	a	Ts	Z		kg
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12J1D012017T8R00	12	17	5,7	8	3	6,5°	0,01
12J1D016019TRR00	16	19	5,7	10	4	4,0°	0,03
12J1D020022TSR00	20	22	5,7	12	5	2,5°	0,05

Programming radius 1mm / Programmation - rayon 1mm

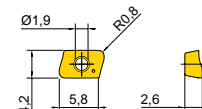
AOMT060202R



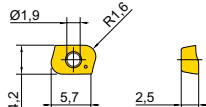
AOMT060204R



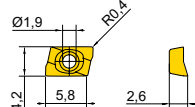
AOMT060208R



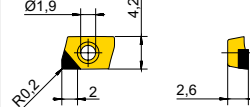
AOMT060216R



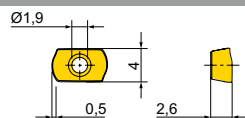
AOCT060204FR-P



AOMT060202R-DT1



UOMT0602TR



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN203S	IN250S	IN2530	IN653S	IN90D		
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									
AOMT060202R-DT1	0,05/0,12	with short PCD-tip R0,2 / avec insert PCD version courte R0,2									
UOMT0602TR	0,30/0,80	high feed geometry / Géométrie haute avance									

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

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES

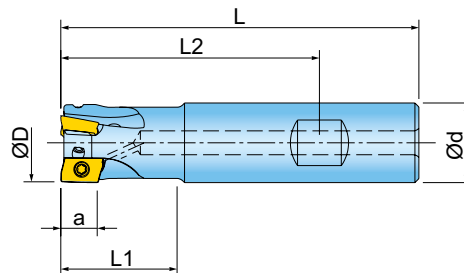


Diameter Range / Diamètres

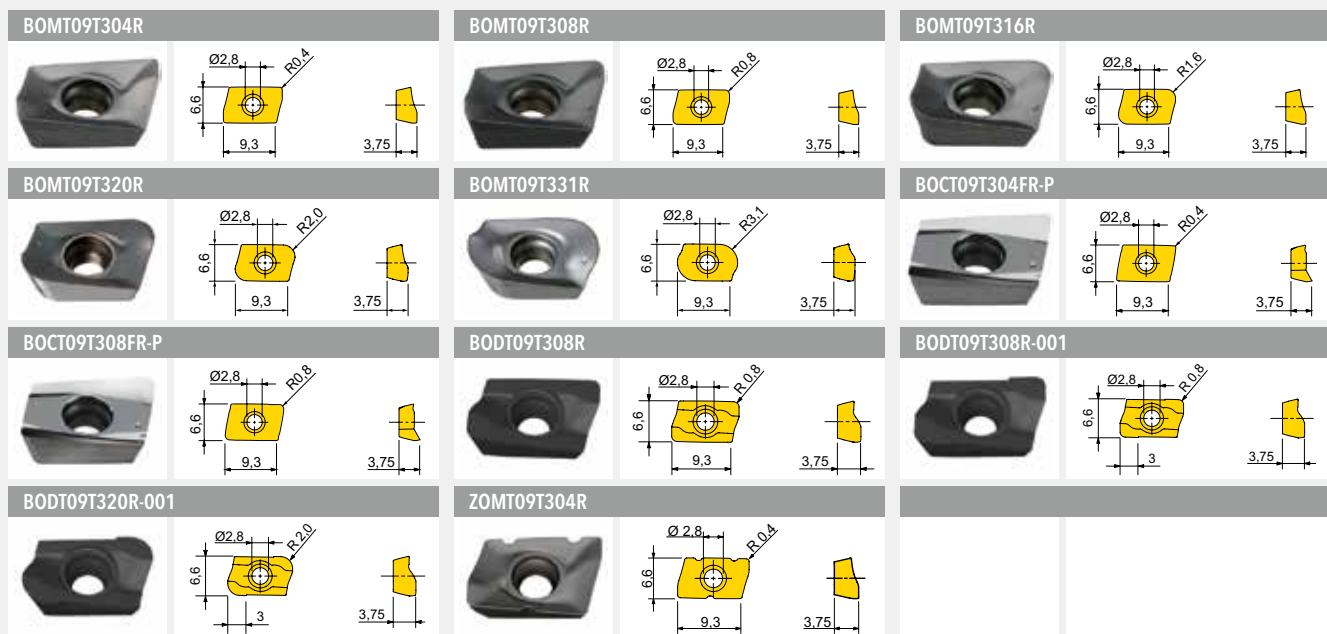
Diameter	SM18-041-00 (0,5Nm)	DS-TP06S (TX-Plus)	WS-0029 (10,0Nm)
10	SM18-041-00 (0,5Nm)	DS-TP06S (TX-Plus)	WS-0030 (15,0Nm)
12	SM18-041-00 (0,5Nm)	DS-TP06S (TX-Plus)	WS-0044 (28,0Nm)
16	SM18-041-00 (0,5Nm)	DS-TP06S (TX-Plus)	WS-0059 (28,0Nm)

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis ③ = Wrench / Clé de serrage

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



Designation Réf. de l'article	D	d	L	L1	L2	a	Z			
12J1P012020W3R00	12	16	80	20	56	9	1	1,5°	✓	0,09
12J1P016026W3R00	16	16	85	26	61	9	2	10,0°	✓	0,10
12J1P020030W4R01	20	20	90	30	65	9	2	7,0°	✓	0,18
12J1P020030W4R00	20	20	90	30	65	9	3	7,0°	✓	0,17
12J1P020075W4R00	20	20	125	75	100	9	2	7,0°	✓	0,23
12J1P025040W5R00	25	25	100	40	68	9	4	4,4°	✓	0,31
12J1P025085W5R00	25	25	145	85	113	9	3	4,4°	✓	0,45
12J1P025085W5R01	25	25	145	85	113	9	4	4,4°	✓	0,45



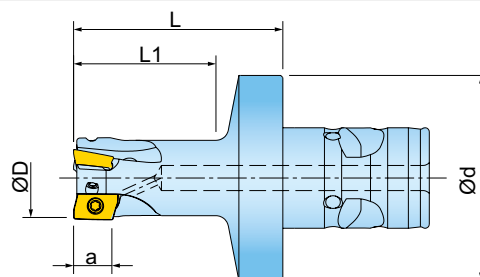
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2504	IN2505	IN2530	IN4030	IN6535
BOMT09T304R	0,10/0,15	positive geometry R0,4 / Géométrie positive R 0,4								
BOMT09T308R	0,10/0,15	positive geometry R0,8 / Géométrie positive R 0,8								
BOMT09T316R ¹⁾	0,10/0,15	positive geometry R1,6 / Géométrie positive R 1,6								
BOMT09T320R ¹⁾	0,10/0,15	positive geometry R2,0 / Géométrie positive R 2,0								
BOMT09T331R ¹⁾	0,10/0,15	positive geometry R3,1 / Géométrie positive R 3,1								
BOCT09T304FR-P	0,05/0,20	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4								
BOCT09T308FR-P	0,05/0,20	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8								
BODT09T308R	0,05/0,15	ground finishing geometry R0,8 / Géométrie de finition affûtée R0,8								
BODT09T308R-001	0,05/0,15	finishing geometry, short R0,8 / Géométrie de finition, courte R0,8								
BODT09T320R-001	0,05/0,15	finishing geometry, short R2,0 / Géométrie de finition, courte R2,0								
ZOMT09T304R ²⁾	0,10/0,15	chipbreaker geometry R0,4 / Géométrie avec brise-copeaux R0,4								

¹⁾ Cutter body has to be modified / Modifier le corps de fraise; ²⁾ You achieve optimum results with tools with an even number of teeth. Please mount them alternatingly. / Les meilleurs résultats sont obtenus avec une fraise ayant un nombre de dents pair. Merci de monter les arêtes de manière alternée.

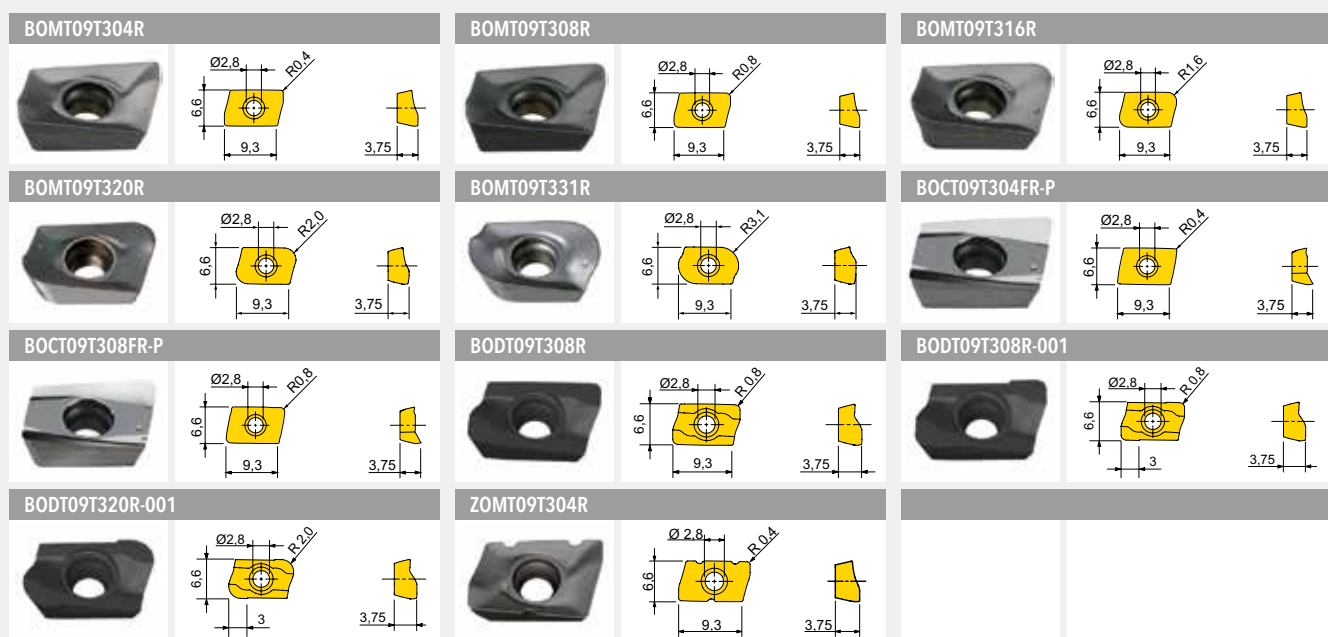
SPARE PARTS ACCESSOIRES	①	②
Diameter Range / Diamètres		
12 - 16	SM25-054-00 (1,1Nm) DS-T08S	
20 - 25	SM25-064-00 (1,1Nm) DS-T08S	

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

MODULAR MILLING ADAPTOR INNOFIT
ATTACHEMENT MODULAIRE INNOFIT



Designation Réf. de l'article	D	d	L	L1	a	MOD	Z			
12J1P016045Z4R00	16	49	45	28	9	40	2	10,0°	✓	0,29
12J1P020050Z4R00	20	49	50	36	9	40	3	7,0°	✓	0,32
12J1P020070Z4R00	20	49	70	56	9	40	2	7,0°	✓	0,36
12J1P025055Z4R00	25	49	55	41	9	40	4	4,4°	✓	0,37
12J1P025100Z4R00	25	49	100	86	9	40	3	4,4°	✓	0,51
12J1P032055Z4R00	32	49	55	41	9	40	5	2,8°	✓	0,45



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2504	IN2505	IN2530	IN4030	IN6535
BOMT09T304R	0,10/0,15	positive geometry R0,4 / Géométrie positive R 0,4								
BOMT09T308R	0,10/0,15	positive geometry R0,8 / Géométrie positive R 0,8								
BOMT09T316R ¹⁾	0,10/0,15	positive geometry R1,6 / Géométrie positive R 1,6								
BOMT09T320R ¹⁾	0,10/0,15	positive geometry R2,0 / Géométrie positive R 2,0								
BOMT09T331R ¹⁾	0,10/0,15	positive geometry R3,1 / Géométrie positive R 3,1								
BOCT09T304FR-P	0,05/0,20	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4								
BOCT09T308FR-P	0,05/0,20	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8								
BODT09T308R	0,05/0,15	ground finishing geometry R0,8 / Géométrie de finition affûtée R0,8								
BODT09T308R-001	0,05/0,15	finishing geometry, short R0,8 / Géométrie de finition, courte R0,8								
BODT09T320R-001	0,05/0,15	finishing geometry, short R2,0 / Géométrie de finition, courte R2,0								
ZOMT09T304R ²⁾	0,10/0,15	chipbreaker geometry R0,4 / Géométrie avec brise-copeaux R0,4								

¹⁾ Cutter body has to be modified / Modifier le corps de fraise; ²⁾ You achieve optimum results with tools with an even number of teeth. Please mount them alternatingly. / 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

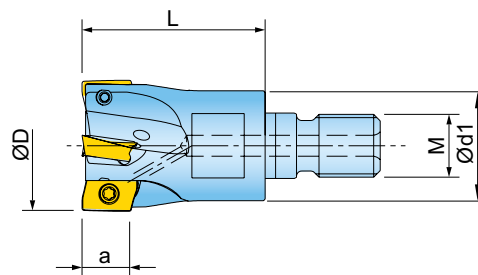
SPARE PARTS ACCESSOIRES	① 	② 
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Diameter Range / Diamètres

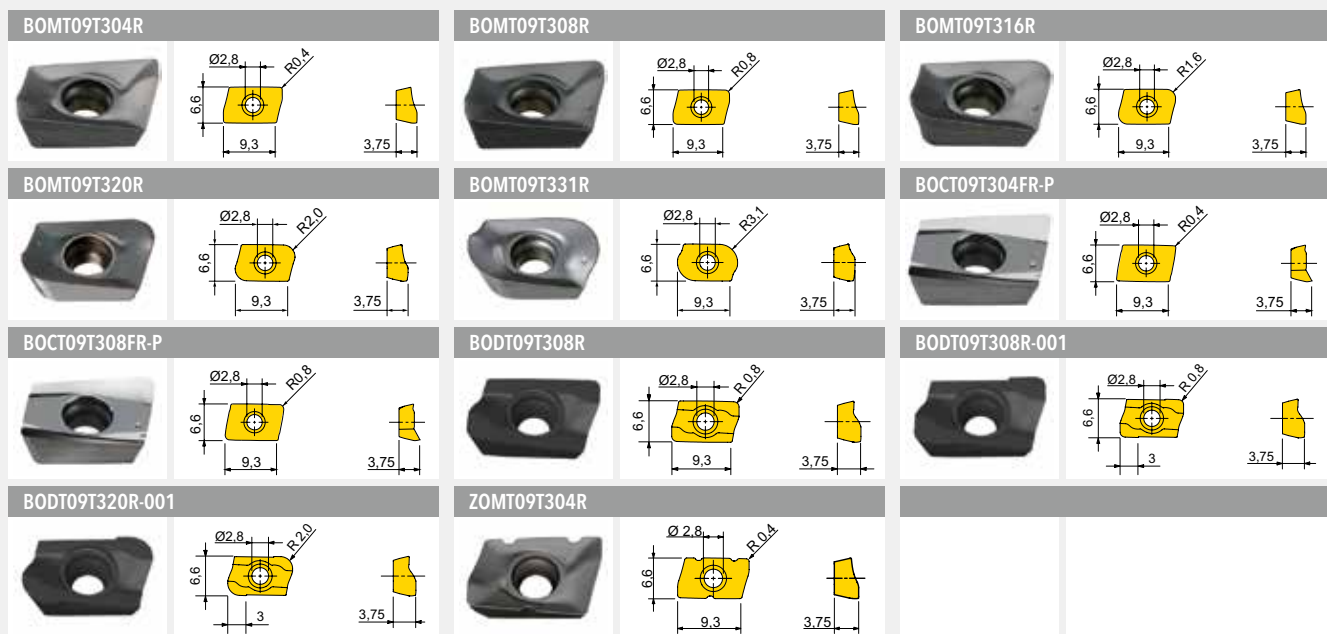
16	SM25-054-00 (1,1Nm) DS-T08S
20 - 32	SM25-064-00 (1,1Nm) DS-T08S

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

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	d1	L	a	M	Z			
12J1P012030X4R00	12	11,8	30	9	6	1	1,5°	✓	0,02
12J1P015030X5R00	15	13	30	9	8	2	12,0°	✓	0,03
12J1P016035X5R00	16	13	35	9	8	2	10,0°	✓	0,03
12J1P020035X6R01	20	18	35	9	10	2	7,0°	✓	0,07
12J1P020035X6R00	20	18	35	9	10	3	7,0°	✓	0,06
12J1P025035X7R00	25	21	35	9	12	4	4,4°	✓	0,09
12J1P032043X8R01	32	29	43	9	16	4	2,8°	✓	0,20
12J1P032043X8R00	32	29	43	9	16	5	2,8°	✓	0,20



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2504	IN2505	IN2530	IN4030	IN6535	
BOMT09T304R	0,10/0,15	positive geometry R0,4 / Géométrie positive R 0,4									
BOMT09T308R	0,10/0,15	positive geometry R0,8 / Géométrie positive R 0,8									
BOMT09T316R ¹⁾	0,10/0,15	positive geometry R1,6 / Géométrie positive R 1,6									
BOMT09T320R ¹⁾	0,10/0,15	positive geometry R2,0 / Géométrie positive R 2,0									
BOMT09T331R ¹⁾	0,10/0,15	positive geometry R3,1 / Géométrie positive R 3,1									
BOCT09T304FR-P	0,05/0,20	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									
BOCT09T308FR-P	0,05/0,20	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
BODT09T308R	0,05/0,15	ground finishing geometry R0,8 / Géométrie de finition affûtée R0,8									
BODT09T308R-001	0,05/0,15	finishing geometry, short R0,8 / Géométrie de finition, courte R0,8									
BODT09T320R-001	0,05/0,15	finishing geometry, short R2,0 / Géométrie de finition, courte R2,0									
ZOMT09T304R ²⁾	0,10/0,15	chipbreaker geometry R0,4 / Géométrie avec brise-copeaux R0,4									

¹⁾ Cutter body has to be modified / Modifier le corps de fraise; ²⁾ You achieve optimum results with tools with an even number of teeth. Please mount them alternatingly. / 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

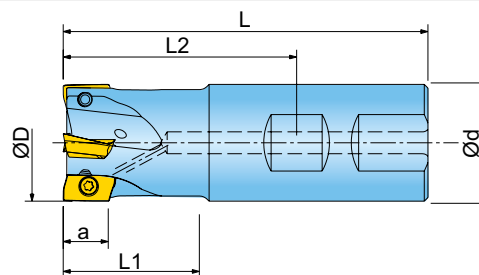


Diameter Range / Diamètres

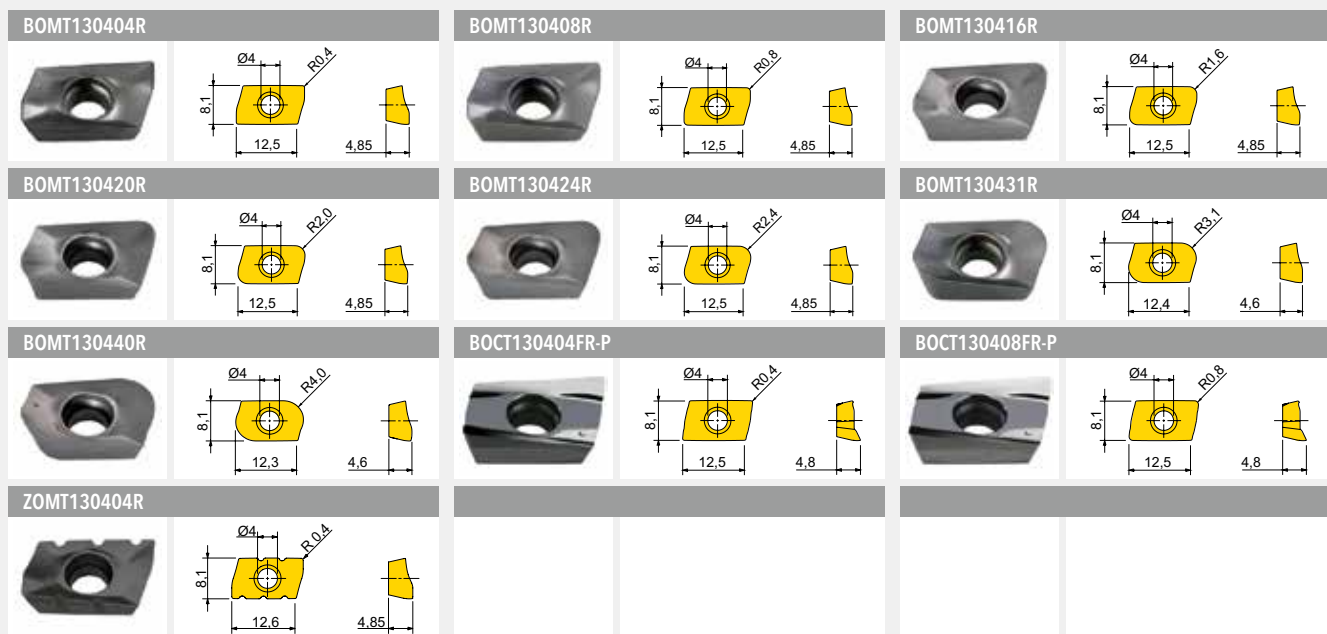
12 - 16	SM25-054-00 (1,1Nm) DS-T08S
20 - 32	SM25-064-00 (1,1Nm) DS-T08S

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

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



Designation Réf. de l'article	D	d	L	L1	L2	a	Z			
12J1R020030W4R00	20	20	90	30	65	12	2	7,0°	✓	0,17
12J1R025040W5R01	25	25	100	40	68	12	2	7,9°	✓	0,32
12J1R025040W5R00	25	25	100	40	68	12	3	7,9°	✓	0,30
12J1R032040W5R00	32	25	100	40	68	12	4	5,0°	✓	0,33
12J1R032038W6R00	32	32	100	38	64	12	4	5,0°	✓	0,51



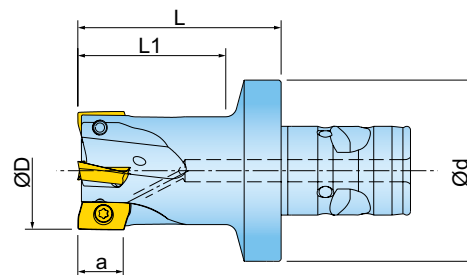
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2530	IN4030	IN6535		
BOMT130404R	0,12/0,20	positive geometry R0,4 / Géométrie positive R 0,4									
BOMT130408R	0,12/0,20	positive geometry R0,8 / Géométrie positive R 0,8									
BOMT130416R	0,12/0,20	positive geometry R1,6 / Géométrie positive R 1,6									
BOMT130420R	0,12/0,20	positive geometry R2,0 / Géométrie positive R 2,0									
BOMT130424R ¹⁾	0,12/0,20	positive geometry R2,4 / Géométrie positive R 2,4									
BOMT130431R ¹⁾	0,12/0,20	positive geometry R3,1 / Géométrie positive R 3,1									
BOMT130440R ¹⁾	0,12/0,20	positive geometry R4,0 / Géométrie positive R 4,0									
BOCT130404FR-P	0,05/0,25	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									
BOCT130408FR-P	0,05/0,25	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
ZOMT130404R ²⁾	0,12/0,20	chipbreaker geometry R0,4 / Géométrie avec brise-copeaux R0,4									

¹⁾ Cutter body has to be modified / Modifier le corps de fraise; ²⁾ You achieve optimum results with tools with an even number of teeth. Please mount them alternatingly. / Les meilleurs résultats sont obtenus avec une fraise ayant un nombre de dents pair. Merci de monter les arêtes de manière alternée.

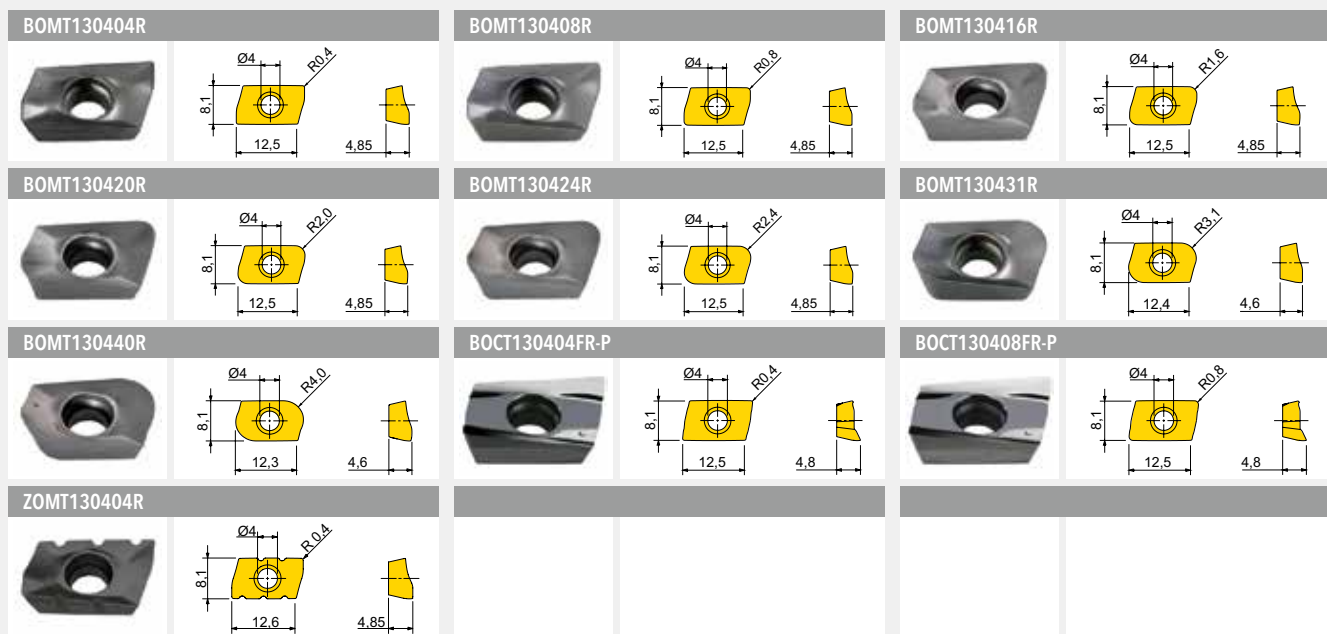
SPARE PARTS ACCESSOIRES	①	②
SM35-088-10 (3,0Nm) DS-T10S		

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

MODULAR MILLING ADAPTOR INNOFIT
ATTACHEMENT MODULAIRE INNOFIT



Designation Réf. de l'article	D	d	L	L1	a	MOD	Z			
12J1R020050Z4R00	20	49	50	36	12	40	2	7,0°	✓	0,31
12J1R020070Z4R00	20	49	70	56	12	40	2	7,0°	✓	0,35
12J1R025055Z4R00	25	49	55	42	12	40	3	7,9°	✓	0,36
12J1R025100Z4R00	25	49	100	87	12	40	2	7,9°	✓	0,51
12J1R032055Z4R00	32	49	55	42	12	40	4	5,0°	✓	0,43
12J1R032135Z4R00	32	49	135	122	12	40	3	5,0°	✓	0,84



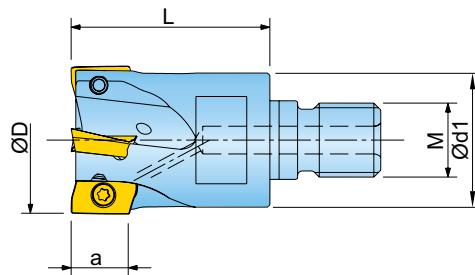
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2530	IN4030	IN6535		
BOMT130404R	0,12/0,20	positive geometry R0,4 / Géométrie positive R 0,4									
BOMT130408R	0,12/0,20	positive geometry R0,8 / Géométrie positive R 0,8									
BOMT130416R	0,12/0,20	positive geometry R1,6 / Géométrie positive R 1,6									
BOMT130420R	0,12/0,20	positive geometry R2,0 / Géométrie positive R 2,0									
BOMT130424R ¹⁾	0,12/0,20	positive geometry R2,4 / Géométrie positive R 2,4									
BOMT130431R ¹⁾	0,12/0,20	positive geometry R3,1 / Géométrie positive R 3,1									
BOMT130440R ¹⁾	0,12/0,20	positive geometry R4,0 / Géométrie positive R 4,0									
BOCT130404FR-P	0,05/0,25	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									
BOCT130408FR-P	0,05/0,25	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
ZOMT130404R ²⁾	0,12/0,20	chipbreaker geometry R0,4 / Géométrie avec brise-copeaux R0,4									

¹⁾ Cutter body has to be modified / Modifier le corps de fraise; ²⁾ You achieve optimum results with tools with an even number of teeth. Please mount them alternatingly. / Les meilleurs résultats sont obtenus avec une fraise ayant un nombre de dents pair. Merci de monter les arêtes de manière alternée.

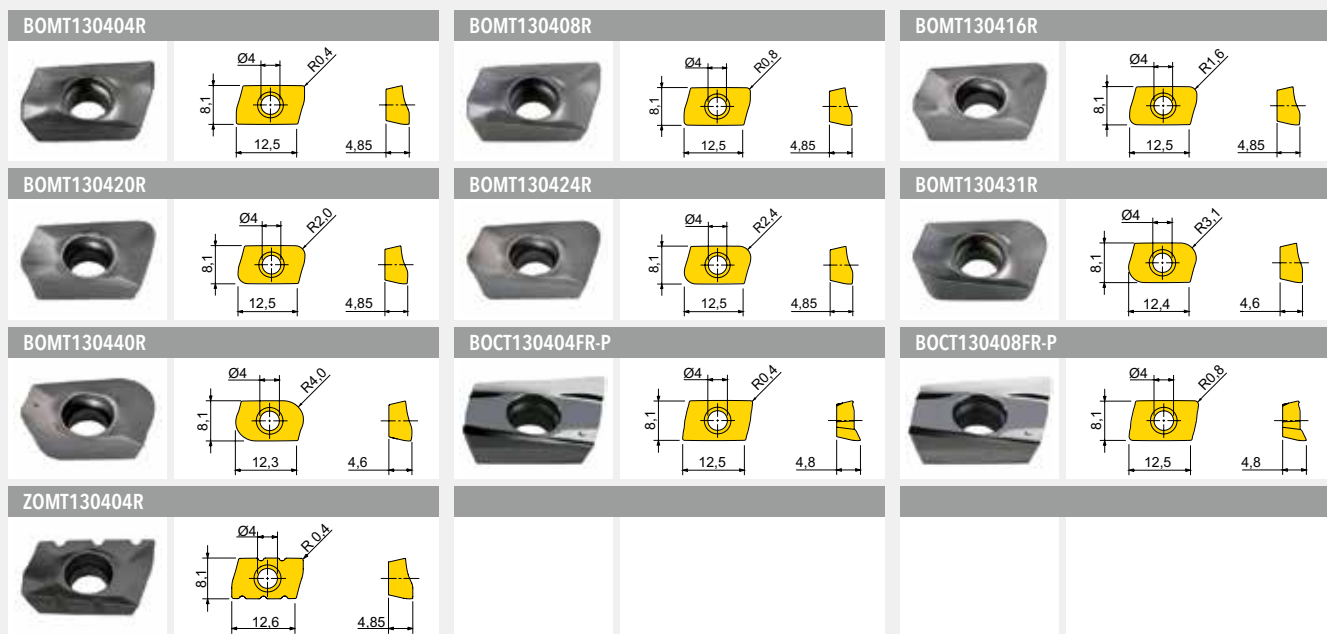
SPARE PARTS ACCESSOIRES	① 	② 
SM35-088-10 (3,0Nm) DS-T10S		

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

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	d1	L	a	M	Z			
12J1R020035X6R00	20	18	35	12	10	2	7,0°	✓	0,06
12J1R025035X7R01	25	21	35	12	12	2	7,9°	✓	0,09
12J1R025035X7R00	25	21	35	12	12	3	7,9°	✓	0,08
12J1R032043X8R00	32	29	43	12	16	4	5,0°	✓	0,19
12J1R035043X8R00	35	29	43	12	16	4	4,2°	✓	0,20
12J1R040043X8R01	40	29	43	12	16	4	3,2°	✓	0,25
12J1R040043X8R00	40	29	43	12	16	5	3,2°	✓	0,23



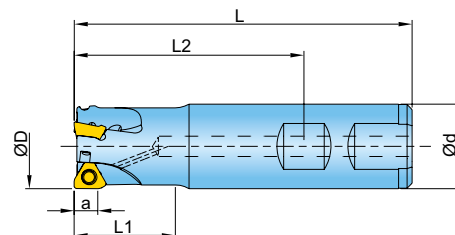
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2530	IN4030	IN6535		
BOMT130404R	0,12/0,20	positive geometry R0,4 / Géométrie positive R 0,4									
BOMT130408R	0,12/0,20	positive geometry R0,8 / Géométrie positive R 0,8									
BOMT130416R	0,12/0,20	positive geometry R1,6 / Géométrie positive R 1,6									
BOMT130420R	0,12/0,20	positive geometry R2,0 / Géométrie positive R 2,0									
BOMT130424R ¹⁾	0,12/0,20	positive geometry R2,4 / Géométrie positive R 2,4									
BOMT130431R ¹⁾	0,12/0,20	positive geometry R3,1 / Géométrie positive R 3,1									
BOMT130440R ¹⁾	0,12/0,20	positive geometry R4,0 / Géométrie positive R 4,0									
BOCT130404FR-P	0,05/0,25	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									
BOCT130408FR-P	0,05/0,25	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
ZOMT130404R ²⁾	0,12/0,20	chipbreaker geometry R0,4 / Géométrie avec brise-copeaux R0,4									

¹⁾ Cutter body has to be modified / Modifier le corps de fraise; ²⁾ You achieve optimum results with tools with an even number of teeth. Please mount them alternatingly. / Les meilleurs résultats sont obtenus avec une fraise ayant un nombre de dents pair. Merci de monter les arêtes de manière alternée.

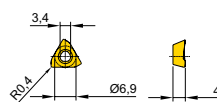
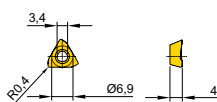
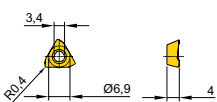
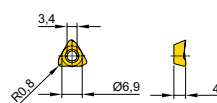
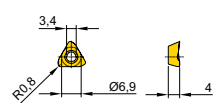
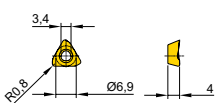
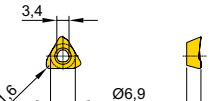
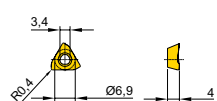
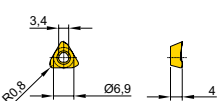
SPARE PARTS ACCESSOIRES	① 	② 
SM35-088-10 (3,0Nm) DS-T10S		

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

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



Designation Réf. de l'article	D	d	L	L1	L2	a	Z			
1KJ1D020025W4R00	20	20	90	25	65	7	2	3,3°	✓	0,17
1KJ1D020075W4R00	20	20	125	75	100	7	2	3,3°	✓	0,24
1KJ1D025030W5R00	25	25	100	30	68	7	3	2,8°	✓	0,31
1KJ1D025085W5R00	25	25	145	85	113	7	3	2,8°	✓	0,43
1KJ1D032040W6R00	32	32	110	40	74	7	5	1,8°	✓	0,59
1KJ1D040040W6R00	40	32	115	40	75	7	6	1,3°	✓	0,69

THLS060404R  	THLS060404R-HR  	THES060404R  
THLS060408R  	THLS060408R-HR  	THES060408R  
THLS060416R  	THES060404FR-P  	THES060408FR-P  

Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2510	IN2530	IN2540	IN4030
THLS060404R	0,08/0,12	positive geometry R0,4 / Géométrie positive R0,4								
THLS060404R-HR	0,08/0,12	high positive geometry R0,4 / Géométrie très positive R0,4								
THES060404R	0,08/0,12	positive geometry, ground R0,4 / Géométrie positive affûtée R0,4								
THLS060408R	0,08/0,12	positive geometry R0,8 / Géométrie positive R0,8								
THLS060408R-HR	0,08/0,12	high positive geometry R0,8 / Géométrie très positive R0,8								
THES060408R	0,08/0,12	positive geometry, ground R0,8 / Géométrie positive affûtée R0,8								
THLS060416R	0,08/0,12	positive geometry R1,6 / Géométrie positive R1,6								
THES060404FR-P	0,05/0,30	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4								
THES060408FR-P	0,05/0,30	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8								

● = P ● = M ● = K ● = N ● = S ○ = H

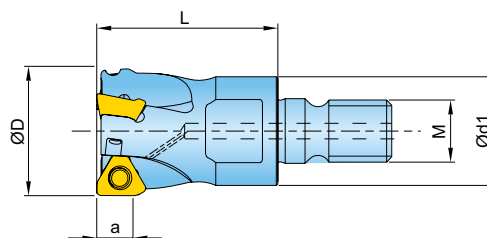
SPARE PARTS
ACCESSOIRES



SM25-065-R0 (1,1Nm) DS-T08S

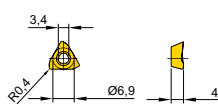
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

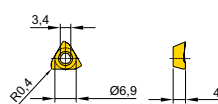


Designation Réf. de l'article	D	d1	L	a	M	Z		IK	kg
1KJ1D020035X6R00	20	18	35	7	10	2	3,3°	✓	0,06
1KJ1D025035X7R00	25	21	35	7	12	3	2,8°	✓	0,09
1KJ1D032043X8R00	32	29	43	7	16	5	1,8°	✓	0,22
1KJ1D035043X8R00	35	29	43	7	16	5	1,6°	✓	0,22
1KJ1D040043X8R00	40	29	43	7	16	6	1,3°	✓	0,28

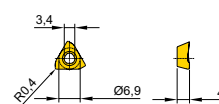
THLS060404R



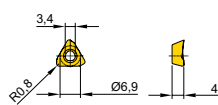
THLS060404R-HR



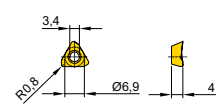
THES060404R



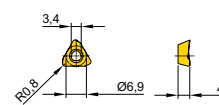
THLS060408R



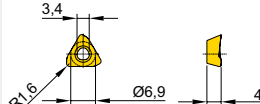
THLS060408R-HR



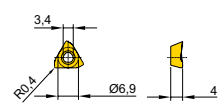
THES060408R



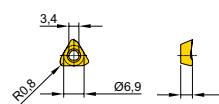
THLS060416R



THES060404FR-P



THES060408FR-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2510	IN2530	IN2540	IN4030
THLS060404R	0,08/0,12	positive geometry R0,4 / Géométrie positive R0,4								
THLS060404R-HR	0,08/0,12	high positive geometry R0,4 / Géométrie très positive R0,4								
THES060404R	0,08/0,12	positive geometry, ground R0,4 / Géométrie positive affûtée R0,4								
THLS060408R	0,08/0,12	positive geometry R0,8 / Géométrie positive R0,8								
THLS060408R-HR	0,08/0,12	high positive geometry R0,8 / Géométrie très positive R0,8								
THES060408R	0,08/0,12	positive geometry, ground R0,8 / Géométrie positive affûtée R0,8								
THLS060416R	0,08/0,12	positive geometry R1,6 / Géométrie positive R1,6								
THES060404FR-P	0,05/0,30	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4								
THES060408FR-P	0,05/0,30	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8								

● = P ● = M ● = K ● = N ● = S ○ = H

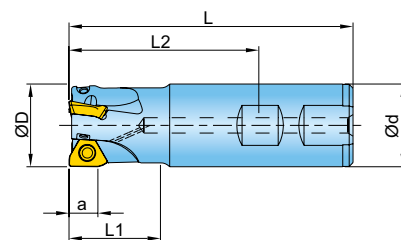
SPARE PARTS
ACCESSOIRES



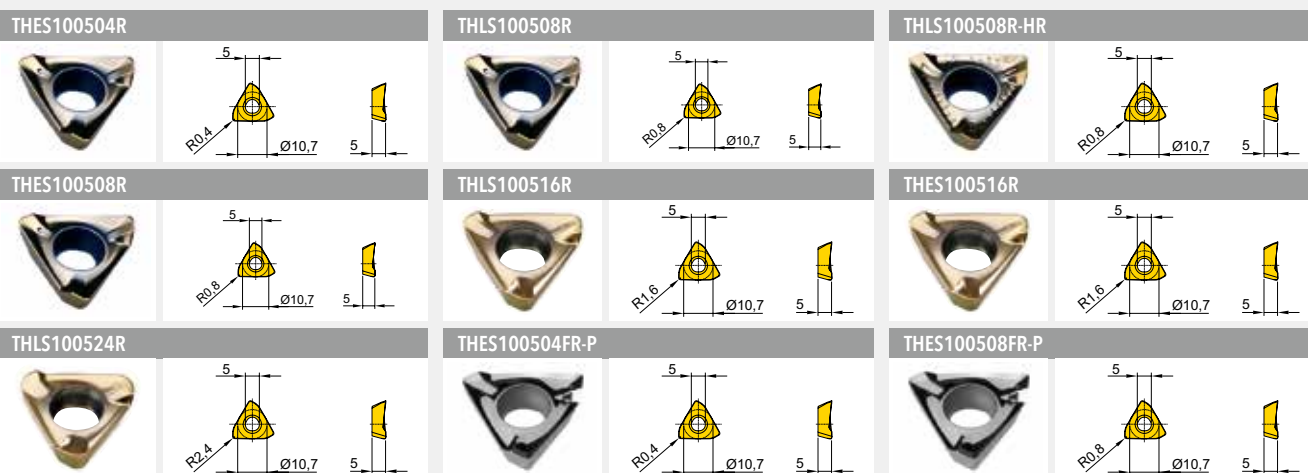
SM25-065-R0 (1,1Nm) DS-T08S

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

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



Designation Réf. de l'article	D	d	L	L1	L2	a	Z		IK	kg
1KJ1G032040W6R00	32	32	110	40	74	11	3	3,2°	✓	0,55
1KJ1G040040W6R00	40	32	110	40	74	11	4	2,0°	✓	0,63



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2510	IN2530	IN2540	IN4030
THES100504R	0,10/0,20	positive geometry, ground R0,4 / Géométrie positive affûtée R0,4								
THLS100508R	0,10/0,20	positive geometry R0,8 / Géométrie positive R0,8								
THLS100508R-HR	0,08/0,20	high positive geometry R0,8 / Géométrie très positive R0,8								
THES100508R	0,10/0,20	positive geometry, ground R0,8 / Géométrie positive affûtée R0,8								
THLS100516R	0,10/0,20	positive geometry R1,6 / Géométrie positive R1,6								
THES100516R	0,10/0,20	positive geometry, ground R1,6 / Géométrie positive affûtée R1,6								
THLS100524R	0,10/0,20	positive geometry R2,4 / Géométrie positive R2,4								
THES100504FR-P	0,05/0,35	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4								
THES100508FR-P	0,05/0,35	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8								

● = P ● = M ● = K ● = N ● = S ○ = H

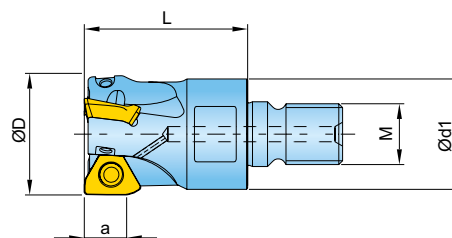
SPARE PARTS
ACCESSOIRES



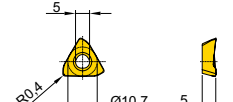
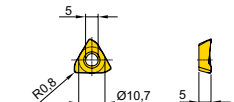
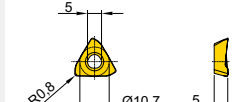
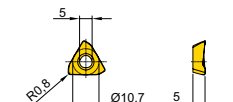
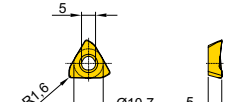
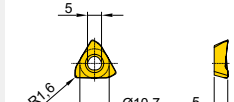
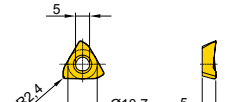
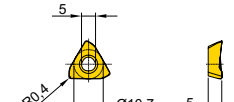
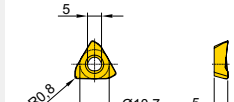
SM40-100-R0 (4,5Nm) DS-T15S

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

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	d1	L	a	M	Z		IK	kg
1KJ1G032043X8R00	32	29	43	11	16	3	3,2°	✓	0,18
1KJ1G035043X8R00	35	29	43	11	16	3	2,4°	✓	0,19
1KJ1G040043X8R00	40	29	43	11	16	4	2,0°	✓	0,22

THES100504R  	THLS100508R  	THLS100508R-HR  
THES100508R  	THLS100516R  	THES100516R  
THLS100524R  	THES100504FR-P  	THES100508FR-P  

Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2510	IN2530	IN2540	IN4030
THES100504R	0,10/0,20	positive geometry, ground R0,4 / Géométrie positive affûtée R0,4								
THLS100508R	0,10/0,20	positive geometry R0,8 / Géométrie positive R0,8								
THLS100508R-HR	0,08/0,20	high positive geometry R0,8 / Géométrie très positive R0,8								
THES100508R	0,10/0,20	positive geometry, ground R0,8 / Géométrie positive affûtée R0,8								
THLS100516R	0,10/0,20	positive geometry R1,6 / Géométrie positive R1,6								
THES100516R	0,10/0,20	positive geometry, ground R1,6 / Géométrie positive affûtée R1,6								
THLS100524R	0,10/0,20	positive geometry R2,4 / Géométrie positive R2,4								
THES100504FR-P	0,05/0,35	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4								
THES100508FR-P	0,05/0,35	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8								

● = P ● = M ● = K ● = N ● = S ○ = H

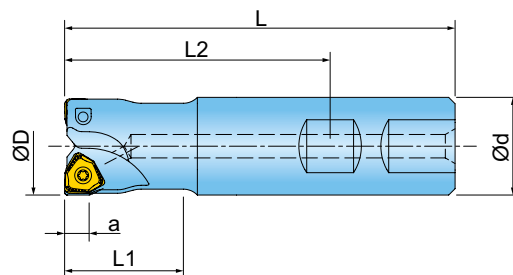
SPARE PARTS
ACCESSOIRES



SM40-100-R0 (4,5Nm) DS-T15S

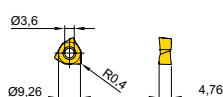
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

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

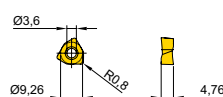


Designation Réf. de l'article	D	d	L	L1	L2	a	Z	IK	kg
1DJ1F025030W5R00	25	25	100	30	68	6,2	2	✓	0,32
1DJ1F032040W6R00	32	32	110	40	74	6,2	3	✓	0,59
1DJ1F040040W6R00	40	32	115	40	79	6,2	4	✓	0,66

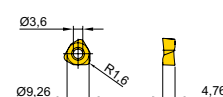
WNGU090404R



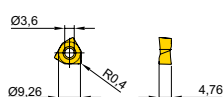
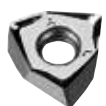
WNGU090408R



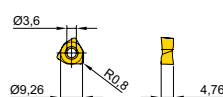
WNGU090416R



WNGU090404FR-P



WNGU090408FR-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2510	IN2530	IN2540		
WNGU090404R	0,08/0,22	positive geometry R0,4 / Géométrie positive R0,4									
WNGU090408R	0,08/0,22	positive geometry R0,8 / Géométrie positive R0,8									
WNGU090416R	0,08/0,22	positive geometry R1,6 / Géométrie positive R1,6									
WNGU090404FR-P	0,05/0,30	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									
WNGU090408FR-P	0,05/0,30	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									

● = P ● = M ● = K ● = N ● = S ○ = H

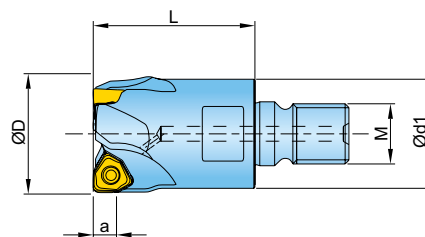
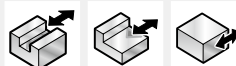
SPARE PARTS ACCESSOIRES



SM30-085-10 (2,0Nm) DS-T09S

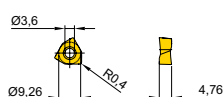
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

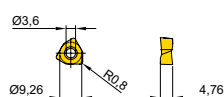


Designation Réf. de l'article	D	d1	L	a	M	Z	IK	kg
1DJ1F025035X7R00	25	21	35	6,2	12	2	✓	0,10
1DJ1F032043X8R00	32	29	43	6,2	16	3	✓	0,25
1DJ1F040043X8R00	40	29	43	6,2	16	4	✓	0,32

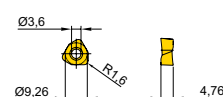
WNGU090404R



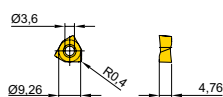
WNGU090408R



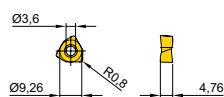
WNGU090416R



WNGU090404FR-P



WNGU090408FR-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2510	IN2530	IN2540		
WNGU090404R	0,08/0,22	positive geometry R0,4 / Géométrie positive R0,4									
WNGU090408R	0,08/0,22	positive geometry R0,8 / Géométrie positive R0,8									
WNGU090416R	0,08/0,22	positive geometry R1,6 / Géométrie positive R1,6									
WNGU090404FR-P	0,05/0,30	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									
WNGU090408FR-P	0,05/0,30	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									

● = P ● = M ● = K ● = N ● = S ○ = H

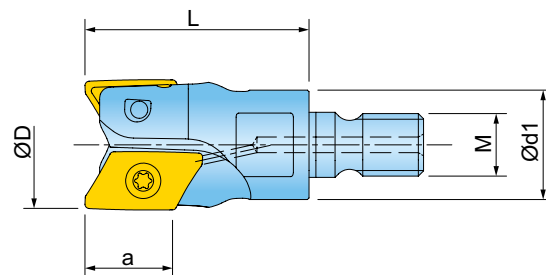
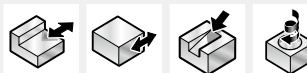
SPARE PARTS
ACCESSOIRES



SM30-085-10 (2,0Nm) DS-T09S

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

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



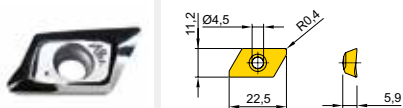
Designation
Réf. de l'article

D d1 L a M Z

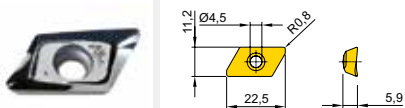


1AX1K025043X7R00	25	21	43	16	12	2	22°	✓	?
1AX1K032043X8R00	32	29	43	16	16	3	16,5°	✓	?
1AX1K040043X8R00	40	29	43	16	16	3	11,5°	✓	?

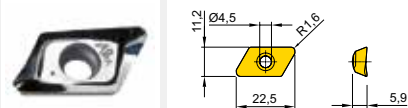
XECT160504FR-P



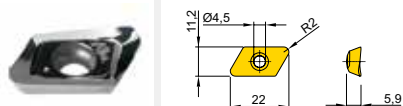
XECT160508FR-P



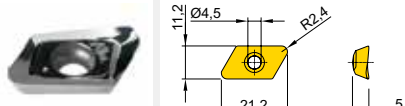
XECT160516FR-P



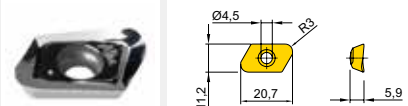
XECT160520FR-P



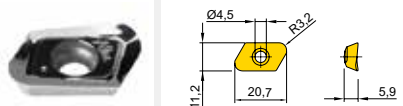
XECT160524FR-P



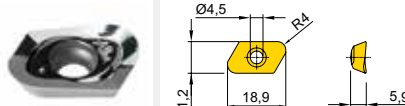
XECT160530FR-P



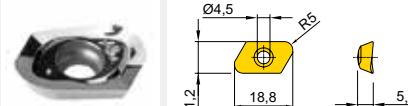
XECT160532FR-P



XECT160540FR-P



XECT160550FR-P



Designation
Réf. de l'article

fz(min/max)

Design
Execution

Grade
Nuance

IN10K

XECT160504FR-P	0,05/0,35	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4	●
XECT160508FR-P	0,05/0,35	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8	●
XECT160516FR-P	0,05/0,35	non-ferrous geometry, polished R1,6 / Géo. pour mat. non fer., polie R1,6	●
XECT160520FR-P	0,05/0,35	non-ferrous geometry, polished R2,0 / Géo. pour mat. non fer., polie R2,0	●
XECT160524FR-P	0,05/0,35	non-ferrous geometry, polished R2,4 / Géo. pour mat. non fer., polie R2,4	●
XECT160530FR-P	0,05/0,35	non-ferrous geometry, polished R3,0 / Géo. pour mat. non fer., polie R3,0	●
XECT160532FR-P	0,05/0,35	non-ferrous geometry, polished R3,2 / Géo. pour mat. non fer., polie R3,2	●
XECT160540FR-P ¹⁾	0,05/0,35	non-ferrous geometry, polished R4,0 / Géo. pour mat. non fer., polie R4,0	●
XECT160550FR-P ¹⁾	0,05/0,35	non-ferrous geometry, polished R5,0 / Géo. pour mat. non fer., polie R5,0	●

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

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

①



②

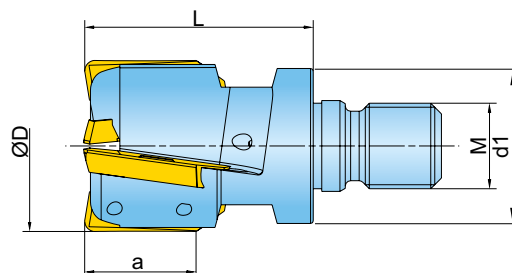


Diameter Range / Diamètres

25	SM40-080-20 (4,5Nm) DS-T15S
32 - 40	SM40-093-20 (4,5Nm) DS-T15S

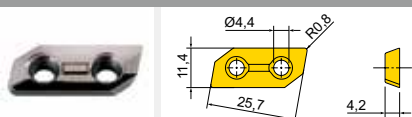
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

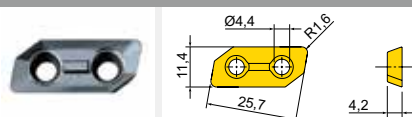


Designation Réf. de l'article	D	d1	L	a	M	Z		IK	kg
15X1X025043X7R00	25	21	43	21	12	1	20,0°	✓	0,12
15X1X032043X8R00	32	29	43	21	16	2	15,0°	✓	0,15
15X1X042053X8R00	42	29	53	21	16	3	10,0°	✓	0,20

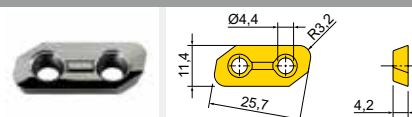
XEET250408R-P



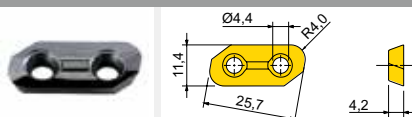
XEET250416R-P



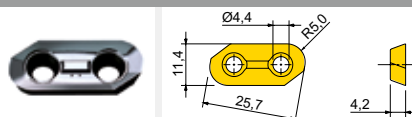
XEET250432R-P



XEET250440R-P



XEET250450R-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN15K							
XEET250408R-P	0,05/0,35	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8	●								
XEET250416R-P	0,05/0,35	non-ferrous geometry, polished R1,6 / Géo. pour mat. non fer., polie R 1,6	●								
XEET250432R-P	0,05/0,35	non-ferrous geometry, polished R3,2 / Géo. pour mat. non fer., polie R3,2	●								
XEET250440R-P	0,05/0,35	non-ferrous geometry, polished R4,0 / Géo. pour mat. non fer., polie R 4,0	●								
XEET250450R-P ¹⁾	0,05/0,35	non-ferrous geometry, polished R5,0 / Géo. pour mat. non fer., polie R 5,0	●								

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

● = P ● = M ● = K ● = N ● = S ○ = H

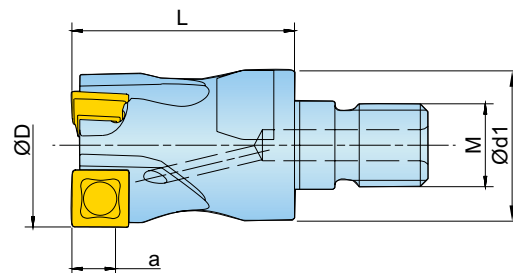
SPARE PARTS
ACCESSOIRES



SM40-070-00 (4,5Nm) DS-T15S

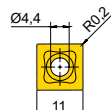
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

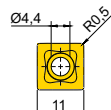


Designation Réf. de l'article	D	d1	L	a	M	Z		IK	kg
15U1G025035X7R00	25	21	35	8,4	12	2	7,0°	✓	0,08
15U1G032043X8R00	32	29	43	8,4	16	3	6,0°	✓	0,18
15U1G040043X8R00	40	29	43	8,4	16	3	4,0°	✓	0,22

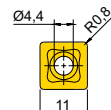
SJET110502FR-P



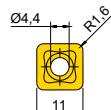
SJET110505FR-P



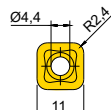
SJET110508FR-P



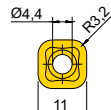
SJET110516FR-P



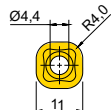
SJET110524FN-P



SJET110532FN-P



SJET110540FN-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN15K										
SJET110502FR-P	0,05/0,30	non-ferrous geometry, polished R0,2 / Géo. pour mat. non fer., polie R0,2	●											
SJET110505FR-P	0,05/0,30	non-ferrous geometry, polished R0,5 / Géo. pour mat. non fer., polie R0,5	●											
SJET110508FR-P	0,05/0,30	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8	●											
SJET110516FR-P	0,05/0,30	non-ferrous geometry, polished R1,6 / Géo. pour mat. non fer., polie R1,6	●											
SJET110524FN-P	0,05/0,30	non-ferrous geometry, polished R2,4 / Géo. pour mat. non fer., polie R2,4	●											
SJET110532FN-P	0,05/0,30	non-ferrous geometry, polished R3,2 / Géo. pour mat. non fer., polie R3,2	●											
SJET110540FN-P	0,05/0,30	non-ferrous geometry, polished R4,0 / Géo. pour mat. non fer., polie R4,0	●											

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

①



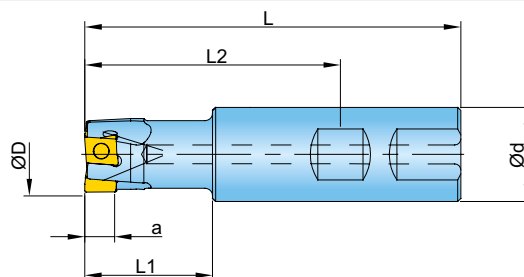
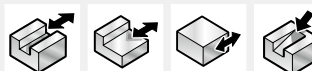
②



SM40-093-20 (4,5Nm) DS-T15S

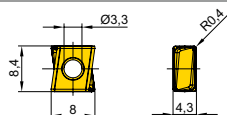
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

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

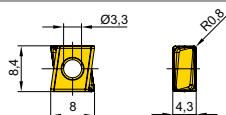


Designation Réf. de l'article	D	d	L	L1	L2	a	Z		IK	kg
1SJ1Y020034W5R00	20	25	100	34	68	7,5	2	0,7°	✓	0,30
1SJ1Y020034W5R01	20	25	100	34	68	7,5	3	0,7°	✓	0,30
1SJ1Y025039W5R00	25	25	105	39	73	7,5	3	0,4°	✓	0,36
1SJ1Y025039W5R01	25	25	105	39	73	7,5	4	0,4°	✓	0,36
1SJ1Y032039W6R00	32	32	110	39	74	7,5	3	0,3°	✓	0,59
1SJ1Y032039W6R01	32	32	110	39	74	7,5	5	0,3°	✓	0,60
1SJ1Y040039W6R00	40	32	120	39	84	7,5	4	0,2°	✓	0,73
1SJ1Y040039W6R01	40	32	120	39	84	7,5	6	0,2°	✓	0,74

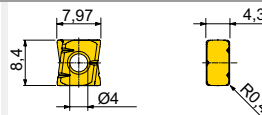
DGM212R100



DGM212R101



ZGM212R101



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2004	IN2505	IN2530	IN4015	IN4030	IN4035		
DGM212R100	0,10/0,15	positive geometry R0,4 / Géométrie positive R 0,4									
DGM212R101	0,10/0,15	positive geometry R0,8 / Géométrie positive R 0,8									
ZGM212R101	0,10/0,15	chipbreaker geometry R0,8 / Géométrie avec brise-copeaux R0,8									

● = P ● = M ● = K ● = N ● = S ○ = H

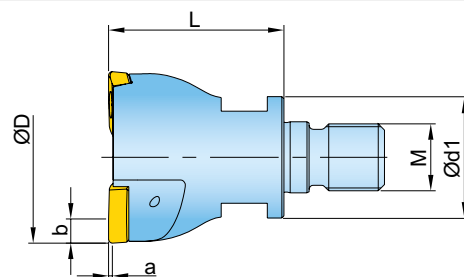
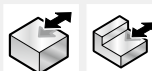
SPARE PARTS ACCESSOIRES



SM30-082-20 (2,0Nm) DS-TP08S (TX-Plus)

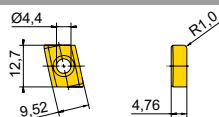
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	d1	L	a	b	M	Z	IK	kg
16F1B030043X8R00	30	28	43	0,5	5,5	16	1	✓	0,21
16F1B035043X8R00	35	29	43	0,5	5,5	16	2	✓	0,24
16F1B040043X8R00	40	29	43	0,5	5,5	16	2	✓	0,28
16F1B042043X8R00	42	29	43	0,5	5,5	16	2	✓	0,29

YDA323L114



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN0560	IN2010	IN2040				
YDA323L114	fu 1/5	short wiper finishing edge R1,0 / Plaqueuse racleuse R1,0									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



SM40-110-00 (4,5Nm) DS-T15S

SC050-01

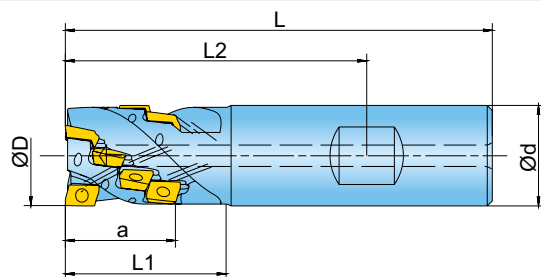
① = Insert screw / Vis de serrage ② = Screw driver / Tournevis ③ = Setting screw / Vis de réglage

EXTENDED FLUTE END MILLS / FRAISES HÉRISSE

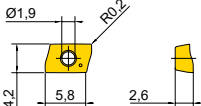
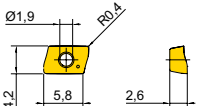
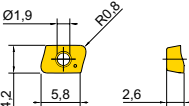
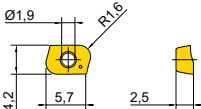
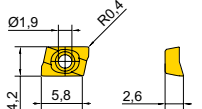
	D	a	Description	Code / Série	Page
	16 - 25	16,5 - 27	HIPOPOS[®] Extended Flute End Mill 22J3D...W Fraise hérisson 22J3D...W	22J3D...W	50
	16 - 25	17 - 27	HIPOPOS[®] Extended Flute End Mill 22J3D...Z Fraise hérisson 22J3D...Z	22J3D...Z	51
	25 - 32	26 - 34	HIPOPOS[®] Extended Flute End Mill 22J3P...W Fraise hérisson 22J3P...W	22J3P...W	52
	25 - 40	26 - 42,5	HIPOPOS[®] Extended Flute End Mill 22J3P...Z Fraise hérisson 22J3P...Z	22J3P...Z	53
	32 - 40	35 - 46	HIPOPOS[®] Extended Flute End Mill 22J3R...W Fraise hérisson 22J3R...W	22J3R...W	54
	32 - 63	35 - 138	HIPOPOS[®] Extended Flute End Mill 22J3R...Z Fraise hérisson 22J3R...Z	22J3R...Z	56
	40 - 80	35 - 46	HIPOPOS[®] Extended Flute End Mill 22J3R...F Fraise hérisson 22J3R...F	22J3R...F	58
	63 - 100	45 - 88	HIPOPOS[®] Extended Flute End Mill 22J3G...F Fraise hérisson 22J3G...F	22J3G...F	60
	40 - 80	45 - 146	HIPOPOS[®] Extended Flute End Mill 22J3G...Z Fraise hérisson 22J3G...Z	22J3G...Z	62
	32 - 50	36 - 50	EVOTECOMAX[™] Extended Flute End Mill 2SJ3Y...Z Fraise hérisson 2SJ3Y...Z	2SJ3Y...Z	64
	63 - 125	33 - 85	EVOTECOMAX[™] Extended Flute End Mill 2EJ3J...F Fraise hérisson 2EJ3J...F	2EJ3J...F	65
	63 - 125	33 - 85	EVOTECOMAX[™] Extended Flute End Mill 2EJ4J...F Fraise hérisson 2EJ4J...F	2EJ4J...F	66

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

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



Designation Réf. de l'article	D	d	L	L1	L2	a	Z	Zeff			
22J3D016017W3R00	16	16	80	30	56	16,5	6	2	4,0°	✓	0,10
22J3D019022W4R00	19	20	85	32	60	22	12	3	2,6°	✓	0,16
22J3D020022W4R00	20	20	85	32	60	22	12	3	2,5°	✓	0,16
22J3D022022W4R00	22	20	85	32	60	22	16	4	2,3°	✓	0,17
22J3D025027W5R00	25	25	95	36	63	27	20	4	2,0°	✓	0,29

AOMT060202R		AOMT060204R		AOMT060208R							
											
AOMT060216R		AOCT060204FR-P									
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2035	IN2505	IN2530	IN6535			
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

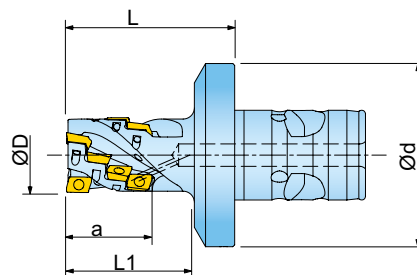
SPARE PARTS
ACCESSOIRES



SM18-041-00 (0,5Nm) DS-TP06S (TX-Plus)

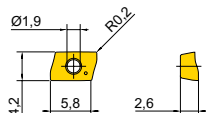
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

MODULAR MILLING ADAPTOR INNOFIT
ATTACHEMENT MODULAIRE INNOFIT

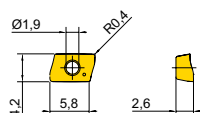


Designation Réf. de l'article	D	d	L	L1	a	MOD	Z	Zeff			
22J3D016017Z4R00	16	49	45	32	17	40	6	2	4,0°	✓	0,27
22J3D020022Z4R00	20	49	45	32	22	40	12	3	2,5°	✓	0,28
22J3D025027Z4R00	25	49	55	43	27	40	20	4	2,0°	✓	0,34

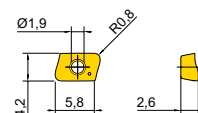
AOMT060202R



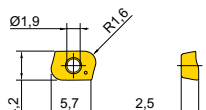
AOMT060204R



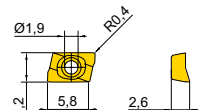
AOMT060208R



AOMT060216R



AOCT060204FR-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2035	IN2505	IN2530	IN6535			
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

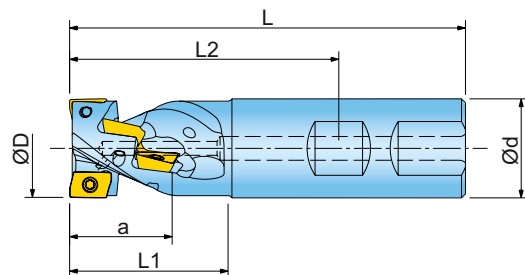
SPARE PARTS
ACCESSOIRES



SM18-041-00 (0,5Nm) DS-TP06S (TX-Plus)

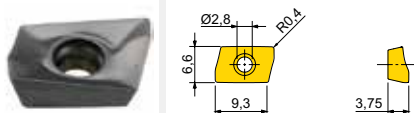
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

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

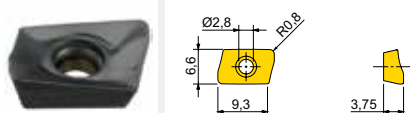


Designation Réf. de l'article	D	d	L	L1	L2	a	Z	Zeff			
22J3P025026W5R00	25	25	100	40	68	26	6	2	4,4°	✓	0,28
22J3P032034W6R01	32	32	110	50	74	34	8	2	2,8°	✓	0,56
22J3P032034W6R00	32	32	110	50	74	34	12	3	2,8°	✓	0,52

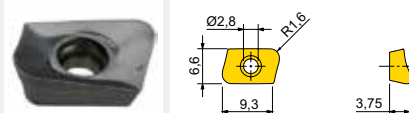
BOMT09T304R



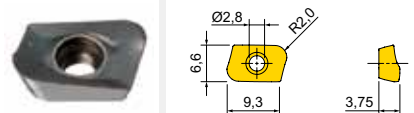
BOMT09T308R



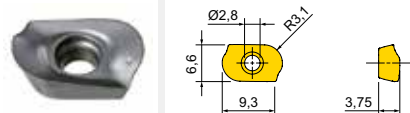
BOMT09T316R



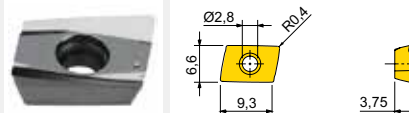
BOMT09T320R



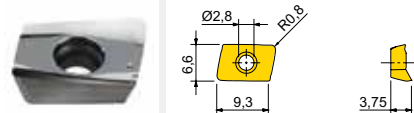
BOMT09T331R



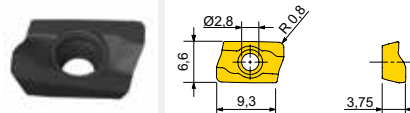
BOCT09T304FR-P



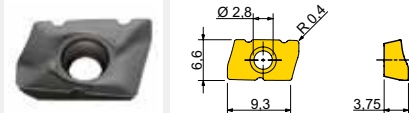
BOCT09T308FR-P



BODT09T308R



ZOMT09T304R



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2504	IN2505	IN2530	IN4030	IN6535
BOMT09T304R	0,10/0,15	positive geometry R0,4 / Géométrie positive R 0,4								
BOMT09T308R	0,10/0,15	positive geometry R0,8 / Géométrie positive R 0,8								
BOMT09T316R¹⁾	0,10/0,15	positive geometry R1,6 / Géométrie positive R 1,6								
BOMT09T320R¹⁾	0,10/0,15	positive geometry R2,0 / Géométrie positive R 2,0								
BOMT09T331R¹⁾	0,10/0,15	positive geometry R3,1 / Géométrie positive R 3,1								
BOCT09T304FR-P	0,05/0,20	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4								
BOCT09T308FR-P	0,05/0,20	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8								
BODT09T308R	0,05/0,15	ground finishing geometry R0,8 / Géométrie de finition affûtée R0,8								
ZOMT09T304R²⁾	0,10/0,15	chipbreaker geometry R0,4 / Géométrie avec brise-copeaux R0,4								

¹⁾ Cutter body has to be modified / Modifier le corps de fraise; ²⁾ You achieve optimum results with tools with an even number of teeth. Please mount them alternatingly. / 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

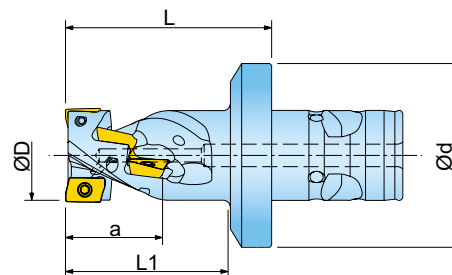
SPARE PARTS
ACCESSOIRES



SM25-064-00 (1,1Nm) DS-T08S

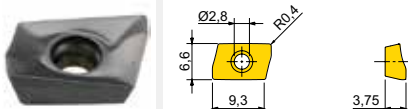
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

MODULAR MILLING ADAPTOR INNOFIT
ATTACHEMENT MODULAIRE INNOFIT

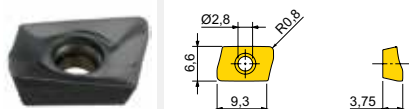


Designation Réf. de l'article	D	d	L	L1	a	MOD	Z	Zeff			
22J3P025026Z4R00	25	49	55	43	26	40	6	2	4,4°	✓	0,33
22J3P028034Z4R00	28	49	72	60	34	40	8	2	3,7°	✓	0,42
22J3P032034Z4R01	32	49	72	60	34	40	8	2	2,8°	✓	0,51
22J3P032034Z4R00	32	49	72	60	34	40	12	3	2,8°	✓	0,48
22J3P040043Z4R00	40	49	72	60	42,5	40	20	4	2,4°	✓	0,58

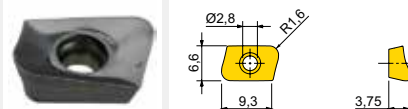
BOMT09T304R



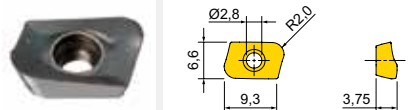
BOMT09T308R



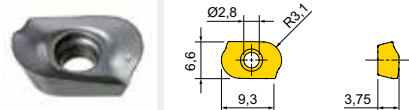
BOMT09T316R



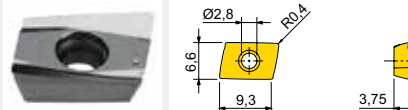
BOMT09T320R



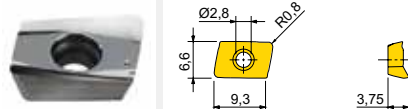
BOMT09T331R



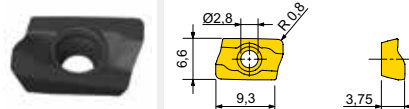
BOCT09T304FR-P



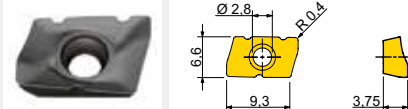
BOCT09T308FR-P



BODT09T308R



ZOMT09T304R



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2504	IN2505	IN2530	IN4030	IN6535
BOMT09T304R	0,10/0,15	positive geometry R0,4 / Géométrie positive R 0,4								
BOMT09T308R	0,10/0,15	positive geometry R0,8 / Géométrie positive R 0,8								
BOMT09T316R ¹⁾	0,10/0,15	positive geometry R1,6 / Géométrie positive R 1,6								
BOMT09T320R ¹⁾	0,10/0,15	positive geometry R2,0 / Géométrie positive R 2,0								
BOMT09T331R ¹⁾	0,10/0,15	positive geometry R3,1 / Géométrie positive R 3,1								
BOCT09T304FR-P	0,05/0,20	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4								
BOCT09T308FR-P	0,05/0,20	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8								
BODT09T308R	0,05/0,15	ground finishing geometry R0,8 / Géométrie de finition affûtée R0,8								
ZOMT09T304R ²⁾	0,10/0,15	chipbreaker geometry R0,4 / Géométrie avec brise-copeaux R0,4								

¹⁾ Cutter body has to be modified / Modifier le corps de fraise; ²⁾ You achieve optimum results with tools with an even number of teeth. Please mount them alternately. / 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

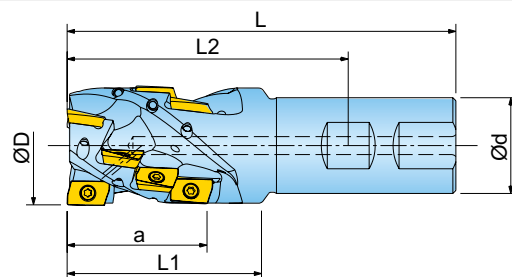
SPARE PARTS
ACCESSOIRES



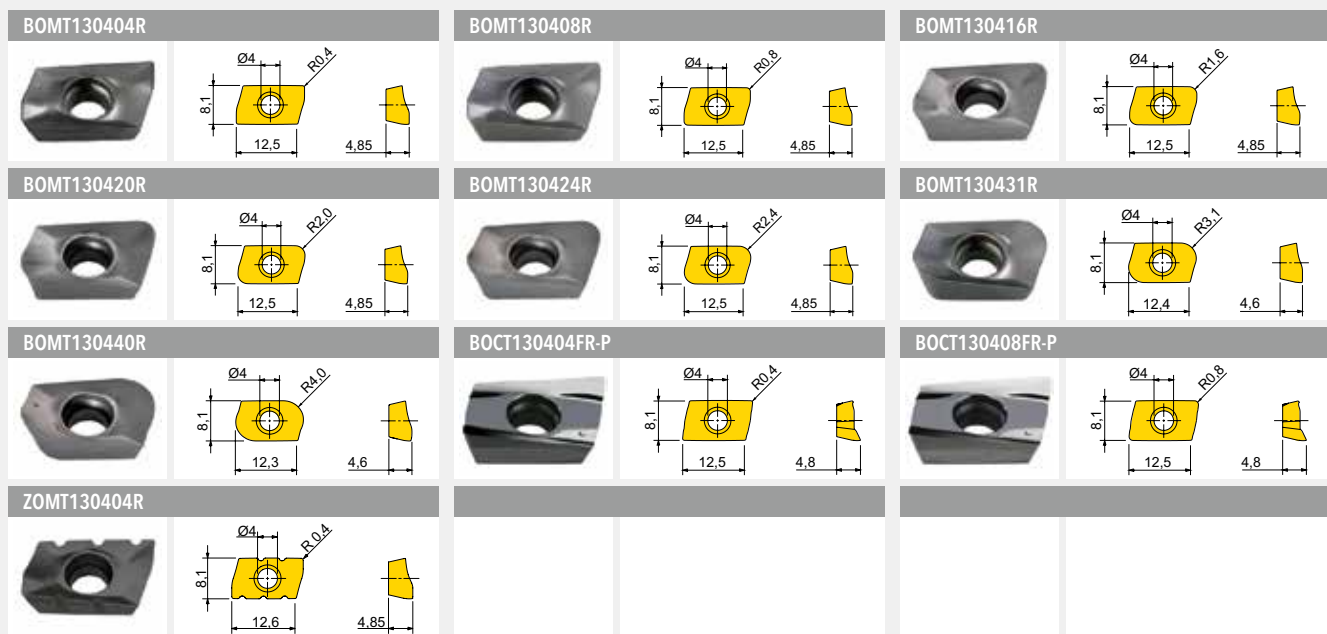
SM25-064-00 (1,1Nm) DS-T08S

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

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



Designation Réf. de l'article	D	d	L	L1	L2	a	Z	Zeff			
22J3R032035W6R00	32	32	110	48	74	35	6	2	5,0°	✓	0,50
22J3R040046W6R01	40	32	130	65	94	46	8	2	3,2°	✓	0,77
22J3R040046W6R00	40	32	130	65	94	46	12	3	3,2°	✓	0,71



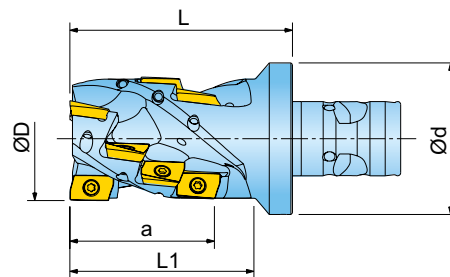
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2530	IN4030	IN6535		
BOMT130404R	0,12/0,20	positive geometry R0,4 / Géométrie positive R 0,4									
BOMT130408R	0,12/0,20	positive geometry R0,8 / Géométrie positive R 0,8									
BOMT130416R	0,12/0,20	positive geometry R1,6 / Géométrie positive R 1,6									
BOMT130420R	0,12/0,20	positive geometry R2,0 / Géométrie positive R 2,0									
BOMT130424R ¹⁾	0,12/0,20	positive geometry R2,4 / Géométrie positive R 2,4									
BOMT130431R ¹⁾	0,12/0,20	positive geometry R3,1 / Géométrie positive R 3,1									
BOMT130440R ¹⁾	0,12/0,20	positive geometry R4,0 / Géométrie positive R 4,0									
BOCT130404FR-P	0,05/0,25	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									
BOCT130408FR-P	0,05/0,25	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
ZOMT130404R ²⁾	0,12/0,20	chipbreaker geometry R0,4 / Géométrie avec brise-copeaux R0,4									

¹⁾ Cutter body has to be modified / Modifier le corps de fraise; ²⁾ You achieve optimum results with tools with an even number of teeth. Please mount them alternatingly. / Les meilleurs résultats sont obtenus avec une fraise ayant un nombre de dents pair. Merci de monter les arêtes de manière alternée.

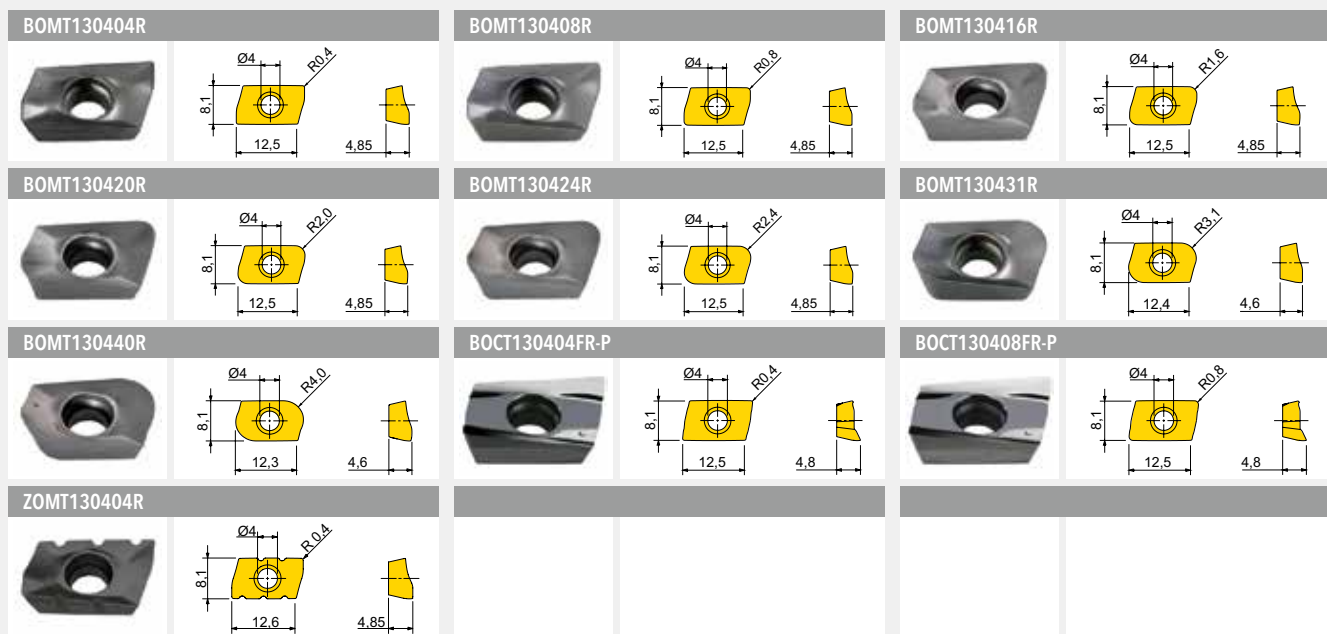
SPARE PARTS ACCESSOIRES	① 	② 
SM35-088-10 (3,0Nm) DS-T10S		

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

MODULAR MILLING ADAPTOR INNOFIT
 ATTACHEMENT MODULAIRE INNOFIT



Designation Réf. de l'article	D	d	L	L1	a	MOD	Z	Zeff			
22J3R032035Z4R00	32	49	60	49	35	40	6	2	5,0°	✓	0,38
22J3R040046Z4R01	40	49	72	60	46	40	8	2	3,2°	✓	0,60
22J3R040046Z4R00	40	49	72	60	46	40	12	3	3,2°	✓	0,54
22J3R040069Z4R01	40	49	94	83	69	40	12	2	3,2°	✓	0,70
22J3R040069Z4R00	40	49	94	83	69	40	18	3	3,2°	✓	0,64
22J3R040069Z5R01	40	78	100	79	69	50	12	2	3,2°	✓	1,34
22J3R040069Z5R00	40	78	100	79	69	50	18	3	3,2°	✓	1,28
22J3R040081Z5R01	40	78	112	91	81	50	14	2	3,2°	✓	1,40
22J3R040081Z5R00	40	78	112	91	81	50	21	3	3,2°	✓	1,32
22J3R050046Z4R00	50	49	72	72	46	40	16	4	2,1°	✓	0,80
22J3R050069Z5R00	50	78	100	80	69	50	24	4	2,1°	✓	1,60
22J3R063092Z5R00	63	78	120	102	92	50	32	4	1,4°	✓	2,43
22J3R063115Z5R00	63	78	143	125	115	50	40	4	1,4°	✓	2,76
22J3R063138Z5R00	63	78	166	148	138	50	48	4	1,4°	✓	3,09



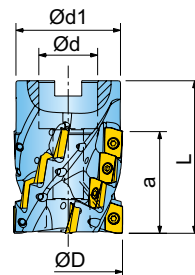
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2530	IN4030	IN6535		
BOMT130404R	0,12/0,20	positive geometry R0,4 / Géométrie positive R 0,4									
BOMT130408R	0,12/0,20	positive geometry R0,8 / Géométrie positive R 0,8									
BOMT130416R	0,12/0,20	positive geometry R1,6 / Géométrie positive R 1,6									
BOMT130420R	0,12/0,20	positive geometry R2,0 / Géométrie positive R 2,0									
BOMT130424R ¹⁾	0,12/0,20	positive geometry R2,4 / Géométrie positive R 2,4									
BOMT130431R ¹⁾	0,12/0,20	positive geometry R3,1 / Géométrie positive R 3,1									
BOMT130440R ¹⁾	0,12/0,20	positive geometry R4,0 / Géométrie positive R 4,0									
BOCT130404FR-P	0,05/0,25	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									
BOCT130408FR-P	0,05/0,25	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
ZOMT130404R ²⁾	0,12/0,20	chipbreaker geometry R0,4 / Géométrie avec brise-copeaux R0,4									

¹⁾ Cutter body has to be modified / Modifier le corps de fraise; ²⁾ You achieve optimum results with tools with an even number of teeth. Please mount them alternatingly. / Les meilleurs résultats sont obtenus avec une fraise ayant un nombre de dents pair. Merci de monter les arêtes de manière alternée.

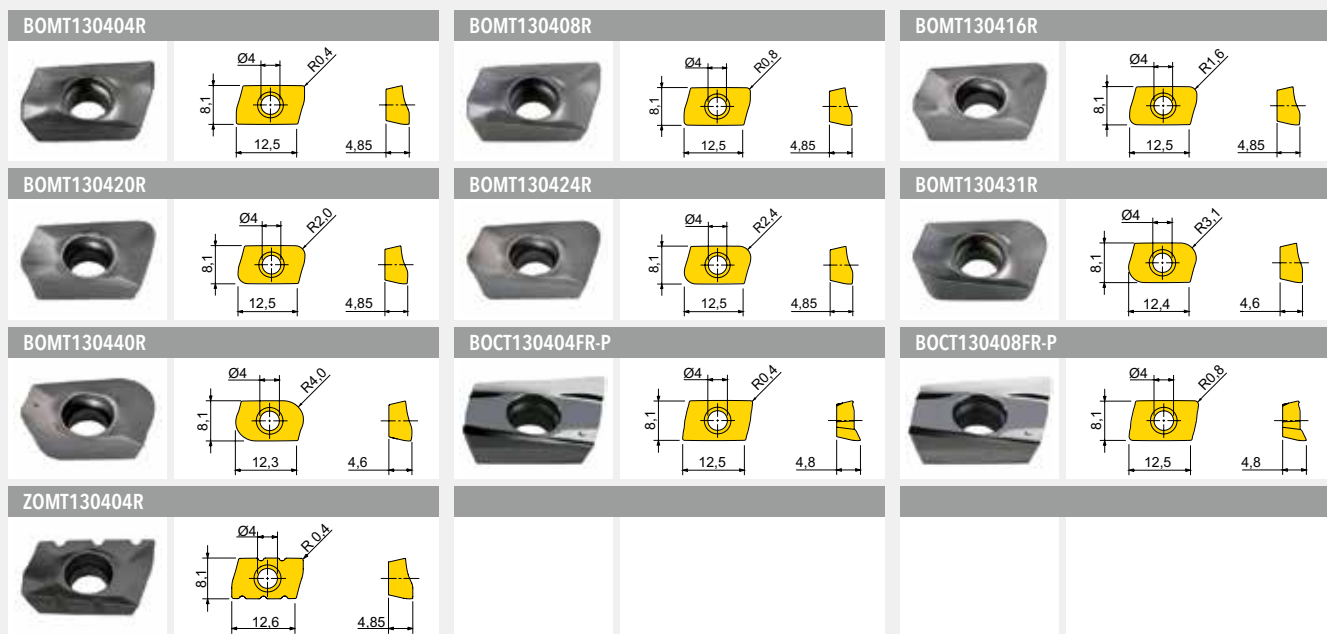
SPARE PARTS ACCESSOIRES	① 	② 
SM35-088-10 (3,0Nm) DS-T10S		

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

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	d	d1	L	a	Z	Zeff			
22J3R040035F0R01	40	16	36	55	35	6	2	3,2°	✓	0,28
22J3R040035F0R00	40	16	36	55	35	9	3	3,2°	✓	0,23
22J3R050046F2R00	50	27	48	70	46	16	4	2,1°	✓	0,48
22J3R063046F2R00	63	27	55	70	46	16	4	1,4°	✓	0,98
22J3R080046F3R01	80	32	73	70	46	16	4	1,0°	✓	1,66
22J3R080046F3R00	80	32	73	70	46	20	5	1,0°	✓	1,62



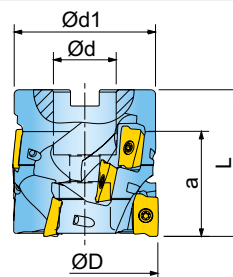
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2530	IN4030	IN6535		
BOMT130404R	0,12/0,20	positive geometry R0,4 / Géométrie positive R 0,4									
BOMT130408R	0,12/0,20	positive geometry R0,8 / Géométrie positive R 0,8									
BOMT130416R	0,12/0,20	positive geometry R1,6 / Géométrie positive R 1,6									
BOMT130420R	0,12/0,20	positive geometry R2,0 / Géométrie positive R 2,0									
BOMT130424R ¹⁾	0,12/0,20	positive geometry R2,4 / Géométrie positive R 2,4									
BOMT130431R ¹⁾	0,12/0,20	positive geometry R3,1 / Géométrie positive R 3,1									
BOMT130440R ¹⁾	0,12/0,20	positive geometry R4,0 / Géométrie positive R 4,0									
BOCT130404FR-P	0,05/0,25	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									
BOCT130408FR-P	0,05/0,25	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
ZOMT130404R ²⁾	0,12/0,20	chipbreaker geometry R0,4 / Géométrie avec brise-copeaux R0,4									

¹⁾ Cutter body has to be modified / Modifier le corps de fraise; ²⁾ You achieve optimum results with tools with an even number of teeth. Please mount them alternatingly. / Les meilleurs résultats sont obtenus avec une fraise ayant un nombre de dents pair. Merci de monter les arêtes de manière alternée.

SPARE PARTS ACCESSOIRES	① 	② 
SM35-088-10 (3,0Nm) DS-T10S		

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

ADAPTION ACC. TO DIN 8030
 ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	d	d1	L	a	Z	Zeff			
22J3G063045F2R00	63	27	61	63	45	9	3	3,2°	✓	0,86
22J3G063059F2R00	63	27	61	75	59	12	3	3,2°	✓	0,95
22J3G063059F2R01	63	27	61	75	59	16	4	3,2°	✓	0,98
22J3G080074F3R00	80	32	77	95	74	20	4	2,3°	✓	2,44
22J3G080074F3R01	80	32	77	95	74	25	5	2,3°	✓	2,27
22J3G100088F4R00	100	40	98	110	88	36	6	1,8°	✓	4,41

SPARE PARTS
 ACCESSOIRES



SM40-093-20 (4,5Nm) DS-T15S

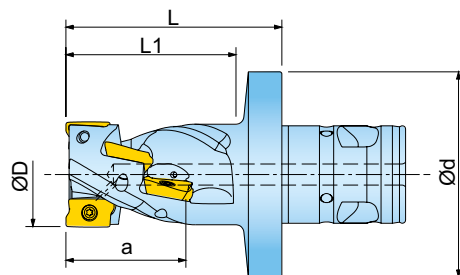
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2505	IN2510	IN2530	IN4030			
AOMT170504R	0,18/0,30	positive geometry R0,4 / Géométrie positive R0,4									
AOMT170508R	0,18/0,30	positive geometry R0,8 / Géométrie positive R0,8									
AOMT170510R	0,18/0,30	positive geometry R1,0 / Géométrie positive R1,0									
AOMT170516R	0,18/0,30	positive geometry R1,6 / Géométrie positive R1,6									
AOMT170524R ¹⁾	0,18/0,30	positive geometry R2,4 / Géométrie positive R2,4									
AOMT170530R ¹⁾	0,18/0,30	positive geometry R3,0 / Géométrie positive R3,0									
AOMT170532R ¹⁾	0,18/0,30	positive geometry R3,2 / Géométrie positive R3,2									
AOMT170535R ¹⁾	0,18/0,30	positive geometry R3,5 / Géométrie positive R3,5									
AOMT170540R ¹⁾	0,18/0,30	positive geometry R4,0 / Géométrie positive R4,0									
AOMT170548R ¹⁾	0,18/0,30	positive geometry R4,8 / Géométrie positive R4,8									
AOMT170564R ¹⁾	0,18/0,30	positive geometry R6,4 / Géométrie positive R6,4									
AOMT170508R-HS	0,12/0,25	positive titanium geometry R0,8 / Géométrie positive Titane R0,8									
AOCT170508FR-P	0,05/0,30	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
ZOMT170508R ²⁾	0,18/0,30	chipbreaker geometry R0,8 / Géométrie avec brise-copeaux R0,8									

¹⁾ Cutter body has to be modified / Modifier le corps de fraise; ²⁾ You achieve optimum results with tools with an even number of teeth. Please mount them alternatingly. / Les meilleurs résultats sont obtenus avec une fraise ayant un nombre de dents pair. Merci de monter les arêtes de manière alternée.

MODULAR MILLING ADAPTOR INNOFIT
ATTACHEMENT MODULAIRE INNOFIT



Designation Réf. de l'article	D	d	L	L1	a	MOD	Z	Zeff			
22J3G040045Z5R00	40	78	82	65	45	50	6	2	5,0°	✓	1,19
22J3G050060Z5R00	50	78	96	79	60	50	12	3	4,4°	✓	1,50
22J3G063088Z5R00	63	78	125	108	88	50	18	3	3,2°	✓	2,35
22J3G063117Z5R00	63	78	154	137	117	50	24	3	3,2°	✓	2,75
22J3G063146Z5R00	63	78	183	166	146	50	30	3	3,2°	✓	3,04
22J3G080088Z5R00	80	78	125	125	88	50	24	4	2,3°	✓	3,68
22J3G080117Z5R00	80	78	154	154	117	50	40	5	2,3°	✓	4,54

SPARE PARTS
ACCESSOIRES



SM40-093-20 (4,5Nm) DS-T15S

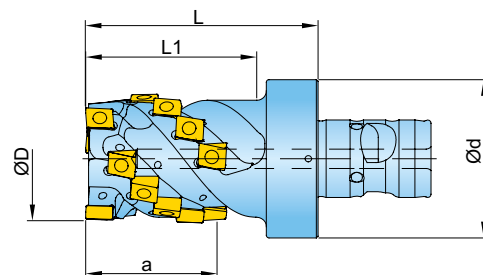
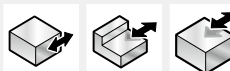
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2505	IN2510	IN2530	IN4030			
AOMT170504R	0,18/0,30	positive geometry R0,4 / Géométrie positive R0,4									
AOMT170508R	0,18/0,30	positive geometry R0,8 / Géométrie positive R0,8									
AOMT170510R	0,18/0,30	positive geometry R1,0 / Géométrie positive R1,0									
AOMT170516R	0,18/0,30	positive geometry R1,6 / Géométrie positive R1,6									
AOMT170524R ¹⁾	0,18/0,30	positive geometry R2,4 / Géométrie positive R2,4									
AOMT170530R ¹⁾	0,18/0,30	positive geometry R3,0 / Géométrie positive R3,0									
AOMT170532R ¹⁾	0,18/0,30	positive geometry R3,2 / Géométrie positive R3,2									
AOMT170535R ¹⁾	0,18/0,30	positive geometry R3,5 / Géométrie positive R3,5									
AOMT170540R ¹⁾	0,18/0,30	positive geometry R4,0 / Géométrie positive R4,0									
AOMT170548R ¹⁾	0,18/0,30	positive geometry R4,8 / Géométrie positive R4,8									
AOMT170564R ¹⁾	0,18/0,30	positive geometry R6,4 / Géométrie positive R6,4									
AOMT170508R-HS	0,12/0,25	positive titanium geometry R0,8 / Géométrie positive Titane R0,8									
AOCT170508FR-P	0,05/0,30	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
ZOMT170508R ²⁾	0,18/0,30	chipbreaker geometry R0,8 / Géométrie avec brise-copeaux R0,8									

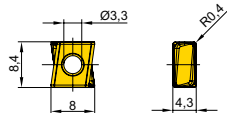
¹⁾ Cutter body has to be modified / Modifier le corps de fraise; ²⁾ You achieve optimum results with tools with an even number of teeth. Please mount them alternatingly. / Les meilleurs résultats sont obtenus avec une fraise ayant un nombre de dents pair. Merci de monter les arêtes de manière alternée.

MODULAR MILLING ADAPTOR INNOFIT
ATTACHEMENT MODULAIRE INNOFIT

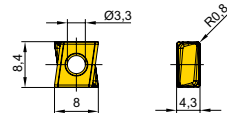


Designation Réf. de l'article	D	d	L	L1	a	MOD	Z	Zeff	IK	kg
2SJ3Y032036Z4R00	32	49	72	53	36	40	15	3	✓	0,53
2SJ3Y040043Z4R00	40	49	72	53	43	40	18	3	✓	0,65
2SJ3Y050050Z5R00	50	78	90	69	50	50	28	4	✓	1,70

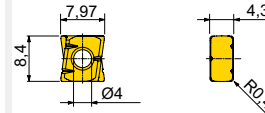
DGM212R100



DGM212R101



ZGM212R101



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2004	IN2505	IN2530	IN4015	IN4030	IN4035		
DGM212R100	0,10/0,15	positive geometry R0,4 / Géométrie positive R 0,4									
DGM212R101	0,10/0,15	positive geometry R0,8 / Géométrie positive R 0,8									
ZGM212R101	0,10/0,15	chipbreaker geometry R0,8 / Géométrie avec brise-copeaux R0,8									

● = P ● = M ● = K ● = N ● = S ○ = H

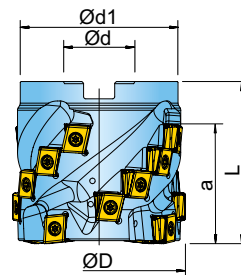
SPARE PARTS
ACCESSOIRES



SM30-082-20 (2,0Nm) DS-TP08S (TX-Plus)

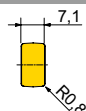
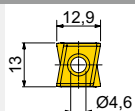
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

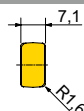
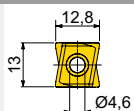


Designation Réf. de l'article	D	d	d1	L	κ	a	Z	Z _{eff}	IK	kg
2EJ3J063033F2R00	63	27	55	60	90	33	9	3	✓	0,95
2EJ3J063063F2R00	63	27	55	90	90	63	18	3	✓	1,40
2EJ3J080054F3R00	80	32	73	75	90	54	20	4	✓	2,00
2EJ3J080075F3R00	80	32	73	100	90	75	28	4	✓	2,70
2EJ3J100085F4R00	100	40	92	120	90	85	40	5	✓	5,50
2EJ3J125085F4R00	125	40	114	120	90	85	48	6	✓	9,20

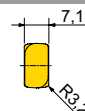
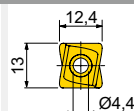
DGM324R300



DGM324R301



DGM324R302



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2505	IN4015	IN4030	IN4035	IN4040			
DGM324R300	0,10/0,25	positive geometry R0,8 / Géométrie positive R0,8		●	●	●	●	●			
DGM324R301	0,10/0,25	positive geometry R1,6 / Géométrie positive R1,6		●	●	●	●	●			
DGM324R302	0,10/0,25	positive geometry R3,2 / Géométrie positive R3,2		●	●	●	●	●			

● = P ● = M ● = K ● = N ● = S ○ = H

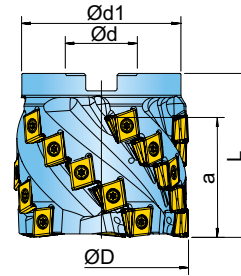
SPARE PARTS
ACCESSOIRES



SM40-143-H0 (4,5Nm) DS-T15S

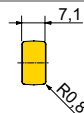
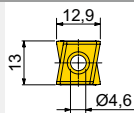
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

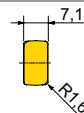
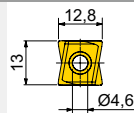


Designation Réf. de l'article	D	d	d1	L	κ	a	Z	Zeff	IK	kg
2EJ4J063033F2R00	63	27	55	60	90	33	12	4	✓	0,94
2EJ4J063063F2R00	63	27	55	90	90	63	24	4	✓	1,40
2EJ4J080054F3R00	80	32	73	75	90	54	25	5	✓	2,00
2EJ4J080075F3R00	80	32	73	100	90	75	35	5	✓	2,72
2EJ4J100085F4R00	100	40	92	120	90	85	48	6	✓	5,70
2EJ4J125085F4R00	125	40	114	120	90	85	56	7	✓	9,18

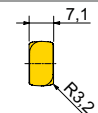
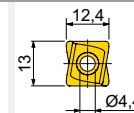
DGM324R300



DGM324R301



DGM324R302



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2505	IN4015	IN4030	IN4035	IN4040		
DGM324R300	0,10/0,25	positive geometry R0,8 / Géométrie positive R0,8		●	●	●	●	●		
DGM324R301	0,10/0,25	positive geometry R1,6 / Géométrie positive R1,6		●	●	●	●	●		
DGM324R302	0,10/0,25	positive geometry R3,2 / Géométrie positive R3,2		●	●	●	●	●		

● = P ● = M ● = K ● = N ● = S ○ = H

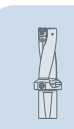
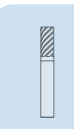
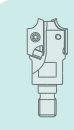
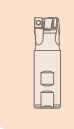
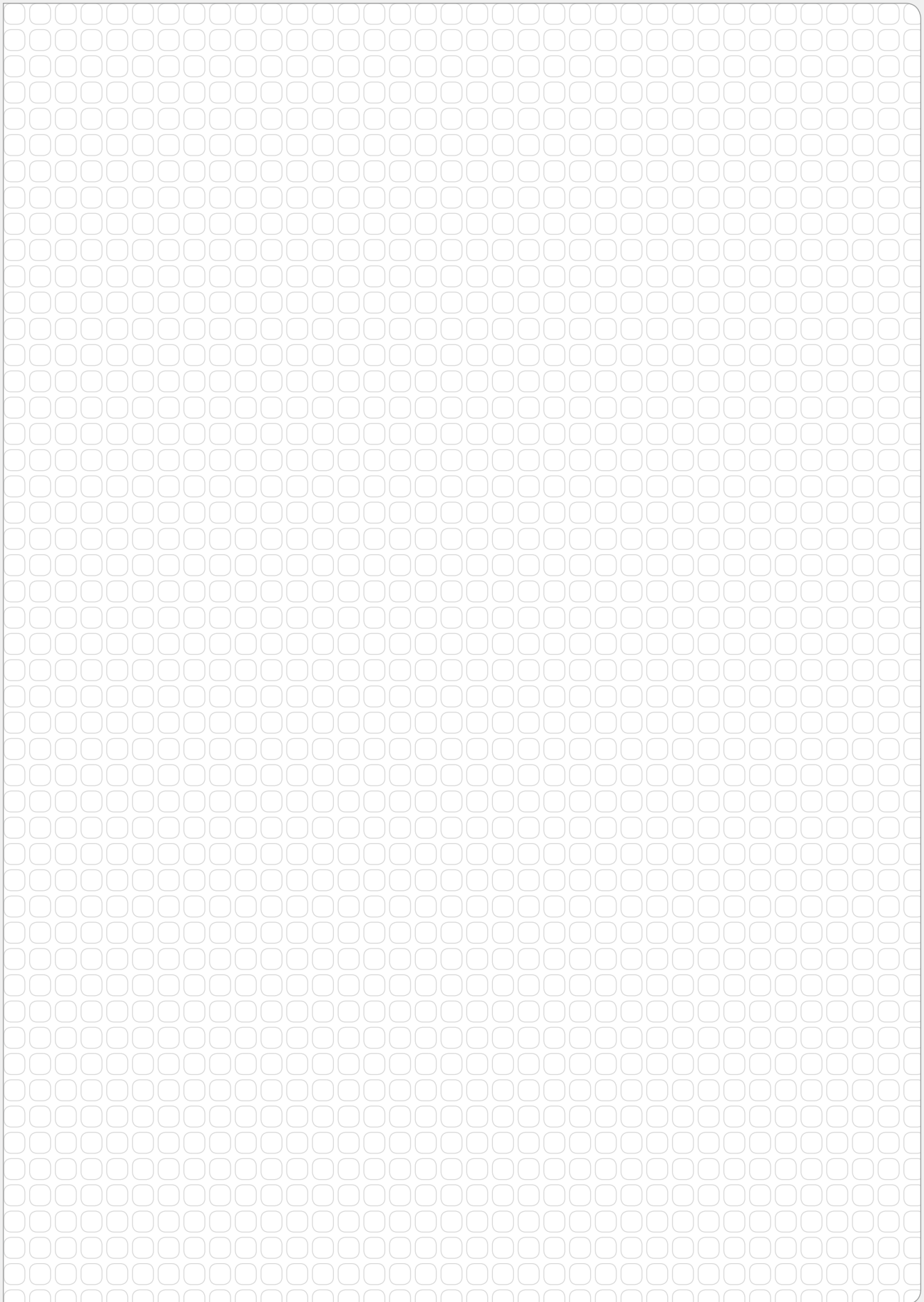
SPARE PARTS
ACCESSOIRES



SM40-143-H0 (4,5Nm) DS-T15S

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

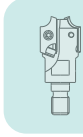
NOTES



SHOULDER-TYPE FACE MILLS / FRAISES À SURFACER & DRESSER

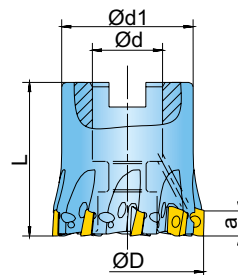
	D	a	Description	Code / Série	Page
	32 - 40	5,7	HIPOPOS® Shoulder-type Face Mill 2J1D Fraise à surfacer-dresser 2J1D	2J1D	70
	32 - 80	9	HIPOPOS®™ Adjustable Shoulder-Type Face Mill 2J5P Fraise à surfacer-dresser réglable 2J5P	2J5P	71
	32 - 63	9	HIPOPOS®™ Shoulder-Type Face Mill 2J1P Fraise à surfacer-dresser 2J1P	2J1P	72
	35 - 125	12	HIPOPOS®™ Shoulder-Type Face Mill 2J1R Fraise à surfacer-dresser 2J1R	2J1R	74
	40 - 160	16	HIPOPOS®™ Shoulder-Type Face Mill 2J1G Fraise à surfacer-dresser 2J1G	2J1G	76
	40 - 125	11,1	DIPOSTETRA™ Shoulder-Type Face TJ5Q Fraise à surfacer-dresser TJ5Q	TJ5Q	78
	40 - 80	7,5	HIPOPOSQUAD™ Shoulder-Type Face Mill 5J1E Fraise à surfacer-dresser 5J1E	5J1E	79
	50 - 250	0,5 - 1	QUADPLUS^{FINISH}™ Finish Mill DJ1H Fraise de finition DJ1H	DJ1H	80
	50 - 200	11,4	ISOPLUS™ Shoulder-Type Face Mill DQ_T Fraise à surfacer-dresser DQ_T	DQ_T	81
	35 - 63	7	HIPOSTRIO™ Shoulder-Type Face KJ_D Fraise à surfacer-dresser KJ_D	KJ_D	82
	50 - 125	11	HIPOSTRIO™ Shoulder-Type Face Mill KJ_G Fraise à surfacer-dresser KJ_G	KJ_G	83
	63 - 160	15	HIPOSTRIO™ Shoulder-Type Face Mill KJ_P Fraise à surfacer-dresser KJ_P	KJ_P	84
	40 - 125	6,2	DIPOSHEXA™ Shoulder-Type Face Mill DJ_F Fraise à surfacer-dresser DJ_F	DJ_F	85
	50 - 160	9,2	DIPOSHEXA™ Shoulder-Type Face Mill DJ_P Fraise à surfacer-dresser DJ_P	DJ_P	86

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



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Ingersoll
Cutting Tools

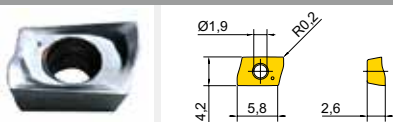
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



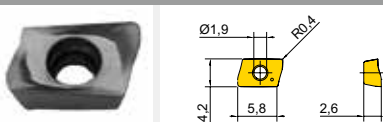
Designation Réf. de l'article	D	d	d1	L	a	Z			
2J1D032R00	32	16	30	32	5,7	8	1,6°	✓	0,11
2J1D035R00	35	16	30	35	5,7	9	1,4°	✓	0,14
2J1D040R00	40	22	38	40	5,7	10	1,2°	✓	0,22

Programming radius 1mm / Programmation - rayon 1mm

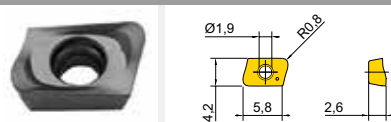
AOMT060202R



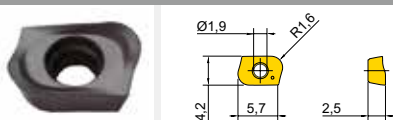
AOMT060204R



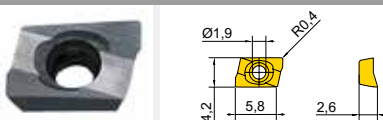
AOMT060208R



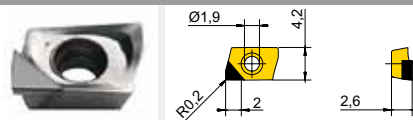
AOMT060216R



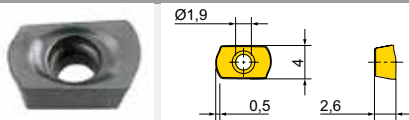
AOCT060204FR-P



AOMT060202R-DT1



UOMT0602TR



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2035	IN2505	IN2530	IN6535	IN90D		
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									
AOMT060202R-DT1	0,05/0,12	with short PCD-tip R0,2 / avec insert PCD version courte R0,2									
UOMT0602TR	0,30/0,80	high feed geometry / Géométrie haute avance									

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

● = P ● = M ● = K ● = N ● = S ○ = H

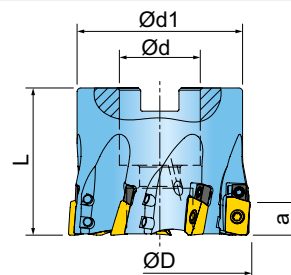
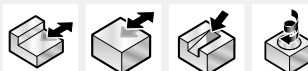
SPARE PARTS
ACCESSOIRES



SM18-041-00 (0,5Nm) DS-TP06S (TX-Plus)

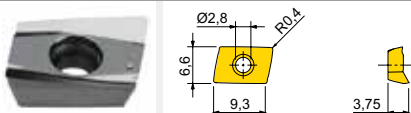
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

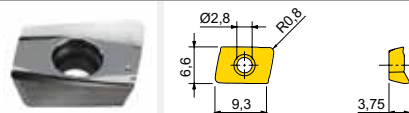


Designation Réf. de l'article	D	d	d1	L	a	Z	IK	kg
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2J5P040R00	40	16	30	40	9	6	✓	0,16
2J5P050R00	50	22	45	40	9	7	✓	0,32
2J5P063R00	63	22	55	40	9	8	✓	0,56
2J5P080R00	80	27	70	50	9	10	✓	1,30

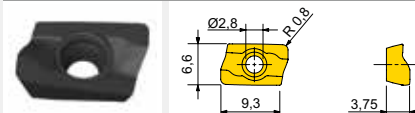
BOCT09T304FR-P



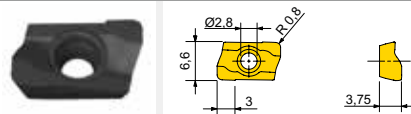
BOCT09T308FR-P



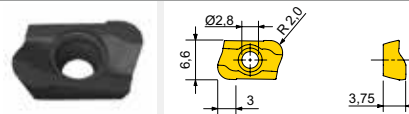
BODT09T308R



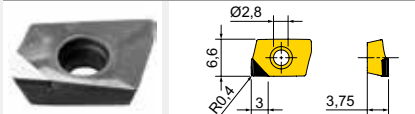
BODT09T308R-001



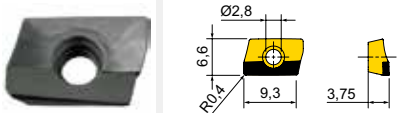
BODT09T320R-001



BOMT09T304R-DT1



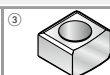
BOMT09T304R-DT2



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2504	IN90D						
BOCT09T304FR-P	0,05/0,20	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4	●									
BOCT09T308FR-P	0,05/0,20	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8	●									
BODT09T308R	0,05/0,15	ground finishing geometry R0,8 / Géométrie de finition affûtée R0,8			○							
BODT09T308R-001	0,05/0,15	finishing geometry, short R0,8 / Géométrie de finition, courte R0,8			○							
BODT09T320R-001	0,05/0,15	finishing geometry, short R2,0 / Géométrie de finition, courte R2,0			○							
BOMT09T304R-DT1	0,05/0,20	with short PCD-tip R0,4 / avec insert PCD version courte R0,4				●						
BOMT09T304R-DT2	0,05/0,20	with long PCD-tip R0,4 / avec insert PCD version longue R0,4				●						

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



SM25-064-00 (1,1Nm) DS-T08S

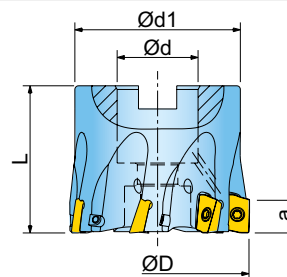
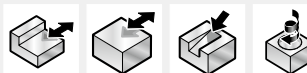
PAR5092

SB025-00

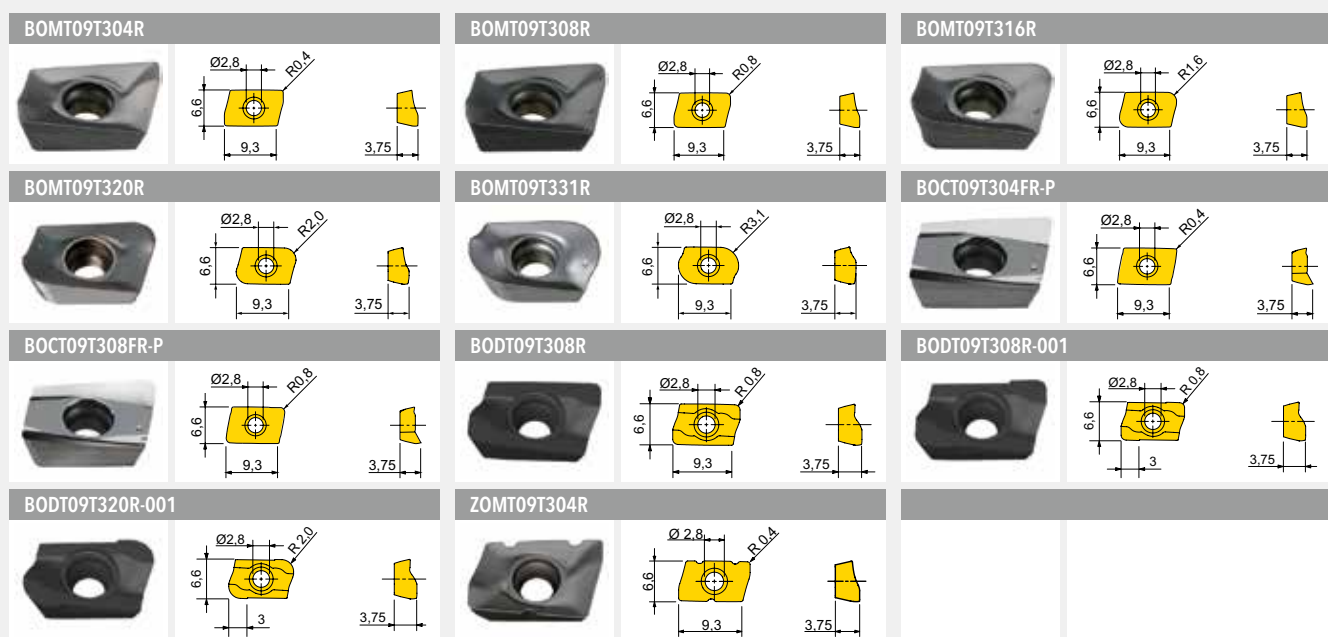
DS-T05F

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis ③ = Wedge / Cale de réglage ④ = Differential screw / Vis à pas différentiel ⑤ = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	d	d1	L	a	Z			
2J1P032R01	32	16	30	32	9	4	2,8°	✓	0,09
2J1P032R00	32	16	30	32	9	5	2,8°	✓	0,09
2J1P040R01	40	16	30	40	9	4	2,4°	✓	0,15
2J1P040R00	40	16	30	40	9	6	2,4°	✓	0,16
2J1P050R01	50	22	45	40	9	4	1,3°	✓	0,32
2J1P050R00	50	22	45	40	9	7	1,3°	✓	0,32
2J1P063R01	63	22	55	40	9	6	1,0°	✓	0,55
2J1P063R00	63	22	55	40	9	8	1,0°	✓	0,55



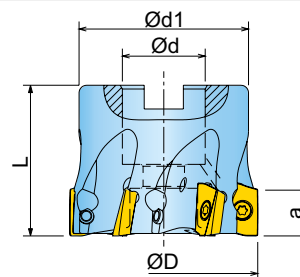
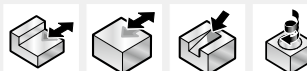
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2504	IN2505	IN2530	IN4030	IN6535
BOMT09T304R	0,10/0,15	positive geometry R0,4 / Géométrie positive R 0,4								
BOMT09T308R	0,10/0,15	positive geometry R0,8 / Géométrie positive R 0,8								
BOMT09T316R ¹⁾	0,10/0,15	positive geometry R1,6 / Géométrie positive R 1,6								
BOMT09T320R ¹⁾	0,10/0,15	positive geometry R2,0 / Géométrie positive R 2,0								
BOMT09T331R ¹⁾	0,10/0,15	positive geometry R3,1 / Géométrie positive R 3,1								
BOCT09T304FR-P	0,05/0,20	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4								
BOCT09T308FR-P	0,05/0,20	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8								
BODT09T308R	0,05/0,15	ground finishing geometry R0,8 / Géométrie de finition affûtée R0,8								
BODT09T308R-001	0,05/0,15	finishing geometry, short R0,8 / Géométrie de finition, courte R0,8								
BODT09T320R-001	0,05/0,15	finishing geometry, short R2,0 / Géométrie de finition, courte R2,0								
ZOMT09T304R ²⁾	0,10/0,15	chipbreaker geometry R0,4 / Géométrie avec brise-copeaux R0,4								

¹⁾ Cutter body has to be modified / Modifier le corps de fraise; ²⁾ You achieve optimum results with tools with an even number of teeth. Please mount them alternatingly. / Les meilleurs résultats sont obtenus avec une fraise ayant un nombre de dents pair. Merci de monter les arêtes de manière alternée.

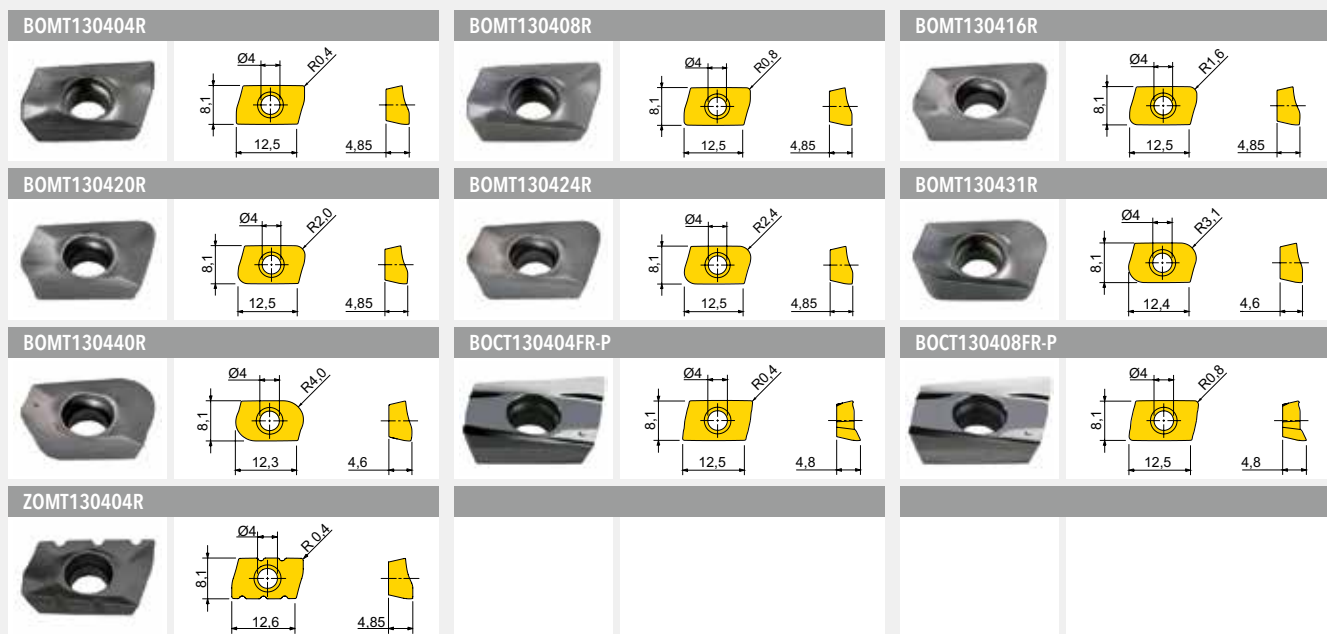
SPARE PARTS ACCESSOIRES	① 	② 
SM25-064-00 (1,1Nm) DS-T08S		

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

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	d	d1	L	a	Z			
2J1R035R00	35	16	30	35	12	4	4,2°	✓	0,10
2J1R040R02	40	16	38	40	12	4	3,2°	✓	0,22
2J1R040R00	40	16	38	40	12	5	3,2°	✓	0,21
2J1R040R03	40	22	38	40	12	4	3,2°	✓	0,18
2J1R040R01	40	22	38	40	12	5	3,2°	✓	0,18
2J1R050R01	50	22	45	40	12	4	2,1°	✓	0,29
2J1R050R00	50	22	45	40	12	6	2,1°	✓	0,30
2J1R052R00	52	22	40	50	12	5	2,0°	✓	0,37
2J1R063R01	63	22	55	40	12	6	1,4°	✓	0,54
2J1R063R00	63	22	55	40	12	7	1,4°	✓	0,54
2J1R066R00	66	27	48	50	12	6	1,2°	✓	0,60
2J1R080R01	80	27	70	50	12	6	1,0°	✓	1,21
2J1R080R00	80	27	70	50	12	9	1,0°	✓	1,20
2J1R085R00	85	27	70	50	12	7	0,9°	✓	1,33
2J1R100R01	100	32	85	50	12	8	0,8°	✓	1,88
2J1R100R00	100	32	85	50	12	11	0,8°	✓	1,89
2J1R125R01	125	40	100	63	12	10	0,6°	✓	3,70
2J1R125R00	125	40	100	63	12	13	0,6°	✓	3,76



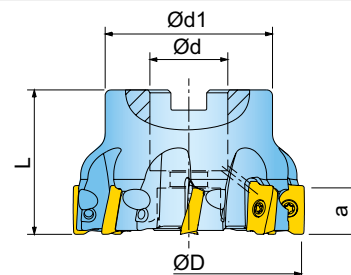
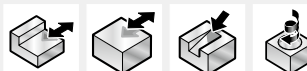
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2530	IN4030	IN6535		
BOMT130404R	0,12/0,20	positive geometry R0,4 / Géométrie positive R 0,4									
BOMT130408R	0,12/0,20	positive geometry R0,8 / Géométrie positive R 0,8									
BOMT130416R	0,12/0,20	positive geometry R1,6 / Géométrie positive R 1,6									
BOMT130420R	0,12/0,20	positive geometry R2,0 / Géométrie positive R 2,0									
BOMT130424R ¹⁾	0,12/0,20	positive geometry R2,4 / Géométrie positive R 2,4									
BOMT130431R ¹⁾	0,12/0,20	positive geometry R3,1 / Géométrie positive R 3,1									
BOMT130440R ¹⁾	0,12/0,20	positive geometry R4,0 / Géométrie positive R 4,0									
BOCT130404FR-P	0,05/0,25	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									
BOCT130408FR-P	0,05/0,25	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
ZOMT130404R ²⁾	0,12/0,20	chipbreaker geometry R0,4 / Géométrie avec brise-copeaux R0,4									

¹⁾ Cutter body has to be modified / Modifier le corps de fraise; ²⁾ You achieve optimum results with tools with an even number of teeth. Please mount them alternatingly. / Les meilleurs résultats sont obtenus avec une fraise ayant un nombre de dents pair. Merci de monter les arêtes de manière alternée.

SPARE PARTS ACCESSOIRES	① 	② 
SM35-088-10 (3,0Nm) DS-T10S		

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

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



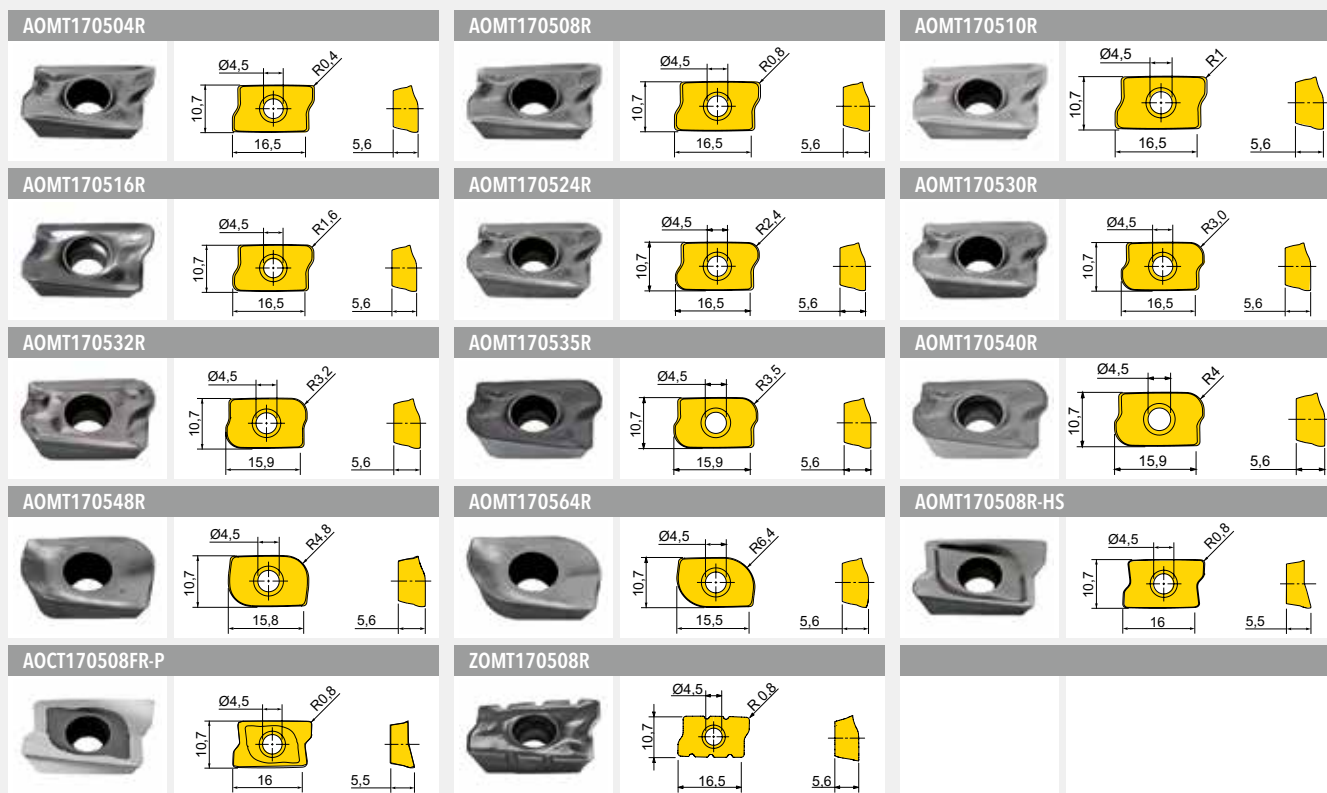
Designation Réf. de l'article	D	d	d1	L	a	Z			
2J1G040R00	40	16	30	40	16	3	5,0°	✓	0,15
2J1G050R00	50	22	45	40	16	4	4,4°	✓	0,23
2J1G050R01	50	22	45	40	16	5	4,4°	✓	0,40
2J1G063R00	63	22	55	40	16	5	3,2°	✓	0,59
2J1G063R01	63	22	55	40	16	6	3,2°	✓	0,52
2J1G080R00	80	27	70	50	16	6	2,3°	✓	1,12
2J1G080R01	80	27	70	50	16	8	2,3°	✓	1,12
2J1G100R00	100	32	85	50	16	6	1,8°	✓	1,92
2J1G100R01	100	32	85	50	16	9	1,8°	✓	1,80
2J1G125R00	125	40	100	63	16	7	1,4°		3,48
2J1G160R00	160	40	100	63	16	8	0,7°		5,30

SPARE PARTS
ACCESSOIRES



SM40-093-20 (4,5Nm) DS-T15S

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

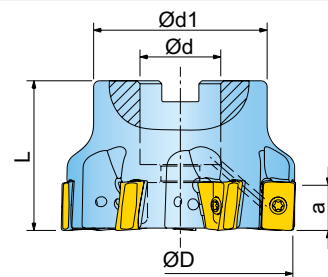
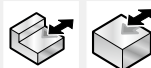


Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2505	IN2510	IN2530	IN4030			
AOMT170504R	0,18/0,30	positive geometry R0,4 / Géométrie positive R0,4									
AOMT170508R	0,18/0,30	positive geometry R0,8 / Géométrie positive R0,8									
AOMT170510R	0,18/0,30	positive geometry R1,0 / Géométrie positive R1,0									
AOMT170516R	0,18/0,30	positive geometry R1,6 / Géométrie positive R1,6									
AOMT170524R ¹⁾	0,18/0,30	positive geometry R2,4 / Géométrie positive R2,4									
AOMT170530R ¹⁾	0,18/0,30	positive geometry R3,0 / Géométrie positive R3,0									
AOMT170532R ¹⁾	0,18/0,30	positive geometry R3,2 / Géométrie positive R3,2									
AOMT170535R ¹⁾	0,18/0,30	positive geometry R3,5 / Géométrie positive R3,5									
AOMT170540R ¹⁾	0,18/0,30	positive geometry R4,0 / Géométrie positive R4,0									
AOMT170548R ¹⁾	0,18/0,30	positive geometry R4,8 / Géométrie positive R4,8									
AOMT170564R ¹⁾	0,18/0,30	positive geometry R6,4 / Géométrie positive R6,4									
AOMT170508R-HS	0,12/0,25	positive titanium geometry R0,8 / Géométrie positive Titane R0,8									
AOCT170508FR-P	0,05/0,30	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
ZOMT170508R ²⁾	0,18/0,30	chipbreaker geometry R0,8 / Géométrie avec brise-copeaux R0,8									

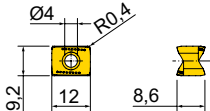
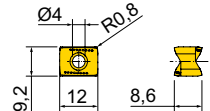
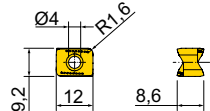
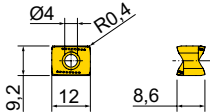
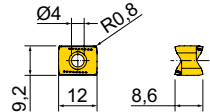
¹⁾ Cutter body has to be modified / Modifier le corps de fraise; ²⁾ You achieve optimum results with tools with an even number of teeth. Please mount them alternatingly. / Les meilleurs résultats sont obtenus avec une fraise ayant un nombre de dents pair. Merci de monter les arêtes de manière alternée.

● = P ● = M ● = K ● = N ● = S ○ = H

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	d	d1	L	a	Z			
TJ5Q040R00	40	16	38	40	11,1	4	0,8°	✓	0,20
TJ5Q050R00	50	22	45	40	11,1	6	0,6°	✓	0,30
TJ5Q063R00	63	22	47	40	11,1	7	0,5°	✓	0,60
TJ5Q080R00	80	27	58	50	11,1	10	0,3°	✓	1,10
TJ5Q100R00	100	32	85	50	11,1	12	0,2°	✓	2,00
TJ5Q125R00	125	40	85	63	11,1	14	0,2°	✓	3,40

ANHU120604R		ANHU120608R		ANHU120616R							
											
ANHU120604FR-P		ANHU120608FR-P									
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2505	IN2510	IN2530	IN2540			
ANHU120604R	0,10/0,25	positive geometry R0,4 / Géométrie positive R0,4									
ANHU120608R	0,10/0,25	positive geometry R0,8 / Géométrie positive R0,8									
ANHU120616R	0,10/0,25	positive geometry R1,6 / Géométrie positive R1,6									
ANHU120604FR-P	0,05/0,35	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									
ANHU120608FR-P	0,05/0,35	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									

● = P ● = M ● = K ● = N ● = S ○ = H

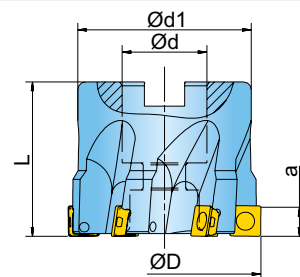
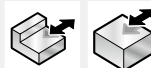
SPARE PARTS
ACCESSOIRES



SM35-088-10 (3,0Nm) DS-T10S

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

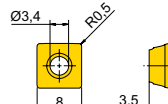
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



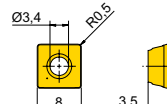
Designation Réf. de l'article	D	d	d1	L	a	Z		kg
5J1E040R00	40	22	38	40	7,5	5	1,5°	0,21
5J1E050R00	50	22	45	40	7,5	6	1,2°	0,34
5J1E063R00	63	22	55	40	7,5	5	1,0°	0,56
5J1E063R01 ¹⁾	63	22	55	40	7,5	7	1,0°	0,59
5J1E080R00	80	27	70	50	7,5	7	0,5°	1,26
5J1E080R01 ¹⁾	80	27	70	50	7,5	9	0,5°	1,25

¹⁾ Narrow spacing (only for short chip producing materials) / Pas réduit (pour matières à copeaux courts)

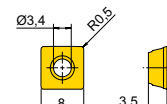
SDMT080305N



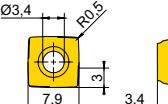
SDMW080305TN



SDCT080305FN-P



SDMW080305TN-W



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2505	IN2515	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									
SDMW080305TN-W	0,13/0,20	wiper insert R0,5 / Plaquette racleuse R0,5									

● = P ● = M ● = K ● = N ● = S ○ = H

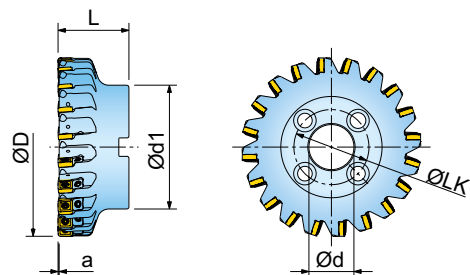
SPARE PARTS ACCESSOIRES



SM30-065-00 (2,0Nm) DS-T09S

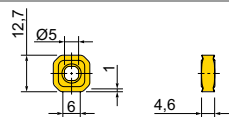
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

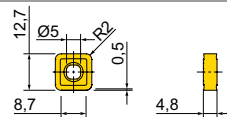


Designation Réf. de l'article	D	d	d1	LK	L	a	Z	kg
DJ1H050R00	50	22	45	-	50	0,5 - 1	3	0,32
DJ1H063R00	63	22	47	-	50	0,5 - 1	4	0,82
DJ1H080R00	80	27	58	-	50	0,5 - 1	6	0,82
DJ1H100R01	100	32	66	-	63	0,5 - 1	8	1,91
DJ1H100R00	100	32	66	-	63	0,5 - 1	12	2,38
DJ1H125R01	125	40	85	-	63	0,5 - 1	10	3,60
DJ1H125R00	125	40	85	-	63	0,5 - 1	16	2,75
DJ1H160R01	160	40	110	66,7	63	0,5 - 1	12	5,01
DJ1H160R00	160	40	110	101,6	63	0,5 - 1	20	6,00
DJ1H200R01	200	60	130	101,6	63	0,5 - 1	16	5,76
DJ1H200R00	200	60	130	101,6	63	0,5 - 1	24	5,77
DJ1H250R00	250	60	160	101,6	63	0,5 - 1	30	10,50

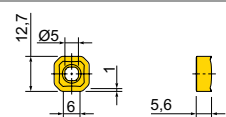
SNES1204ANN



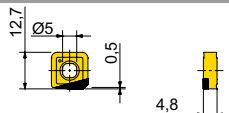
SNED120420



SNEV1204ANN-PH



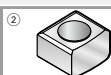
SNED1204ANR-DT



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2505	IN2510	IN80B					
SNES1204ANN	0,10/0,50	short wiper finishing edge / wiper court pour la finition			●						
SNED120420	0,10/0,50	roughing geometry / géométrie pour ébauche			●						
SNEV1204ANN-PH	0,10/0,50	positive short wiper finishing edge / wiper court positif pour la finition	●								
SNED1204ANR-DT	0,10/0,50	CBN wiper finishing edge / wiper pour la finition avec insert CBN				●					

● = P ● = M ● = K ● = N ● = S ○ = H

**SPARE PARTS
ACCESSOIRES**



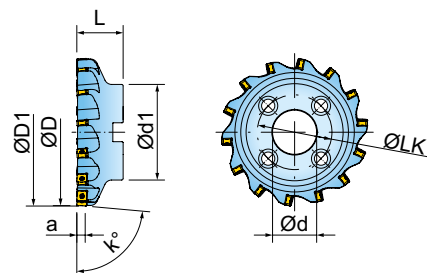
SM35-110-R0 (3,0Nm) 2E-831-01

SB060-10

DS115T

① = Insert screw / Vis de serrage plaque ② = Wedge / Cale de réglage ③ = Differential screw / Vis à pas différentiel ④ = Screw driver / Tournevis

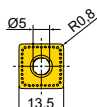
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	D1	d	d1	LK	L	κ	a	Z	IK	kg
DQ6T050R00	50	51,2	22	45	-	40	88	11,4	5	✓	0,28
DQ6T063R00	63	64,2	22	47	-	40	88	11,4	6	✓	0,45
DQ6T080R00	80	81,2	27	70	-	50	88	11,4	7	✓	1,09
DQ5T080R00 ¹⁾	80	81,2	27	70	-	50	88	11,4	9	✓	1,09
DQ6T100R00	100	101,2	32	85	-	50	88	11,4	8	✓	1,83
DQ5T100R00 ¹⁾	100	101,2	32	85	-	50	88	11,4	11	✓	1,81
DQ6T125R00	125	126,2	40	100	-	63	88	11,4	10	✓	3,50
DQ5T125R00 ¹⁾	125	126,2	40	100	-	63	88	11,4	14	✓	3,53
DQ6T160R00	160	161,1	40	110	-	63	88	11,4	12		4,14
DQ5T160R00 ¹⁾	160	161,2	40	110	-	63	88	11,4	18		4,19
DQ6T200R00	200	201,1	60	130	101,6	63	88	11,4	14		5,97
DQ5T200R00 ¹⁾	200	201,2	60	130	101,6	63	88	11,4	22		6,01

¹⁾ Narrow spacing (only for short chip producing materials) / Pas réduit (pour matières à copeaux courts)

SNGU130608TN



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2505	IN2510	IN2530	IN2540	IN4030			
SNGU130608TN	0,20/0,35	positive geometry / Géométrie positive									

● = P ● = M ● = K ● = N ● = S ○ = H

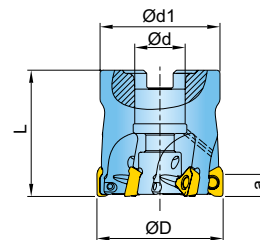
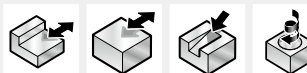
SPARE PARTS
ACCESSOIRES



SM40-100-R0 (4,5Nm) DS-T15S

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

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	d	d1	L	a	Z			
KJ5D035R00 ¹⁾	35	16	30	40	7	5	1,6°	✓	0,11
KJ6D040R00	40	16	38	40	7	4	1,3°	✓	0,22
KJ5D040R00 ¹⁾	40	16	38	40	7	6	1,3°	✓	0,30
KJ6D050R00	50	22	45	40	7	5	1,0°	✓	0,30
KJ5D050R00 ¹⁾	50	22	45	40	7	7	1,0°	✓	0,40
KJ6D063R00	63	22	47	40	7	7	0,8°	✓	0,46
KJ5D063R00 ¹⁾	63	22	47	40	7	9	0,8°	✓	0,50

¹⁾ Narrow spacing (only for short chip producing materials) / Pas réduit (pour matières à copeaux courts)

THLS060404R		
THLS060404R-HR		
THES060404R		
THLS060408R		
THLS060408R-HR		
THES060408R		
THLS060416R		
THES060404FR-P		
THES060408FR-P		

Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2510	IN2530	IN2540	IN4030
THLS060404R	0,08/0,12	positive geometry R0,4 / Géométrie positive R0,4								
THLS060404R-HR	0,08/0,12	high positive geometry R0,4 / Géométrie très positive R0,4								
THES060404R	0,08/0,12	positive geometry, ground R0,4 / Géométrie positive affûtée R0,4								
THLS060408R	0,08/0,12	positive geometry R0,8 / Géométrie positive R0,8								
THLS060408R-HR	0,08/0,12	high positive geometry R0,8 / Géométrie très positive R0,8								
THES060408R	0,08/0,12	positive geometry, ground R0,8 / Géométrie positive affûtée R0,8								
THLS060416R	0,08/0,12	positive geometry R1,6 / Géométrie positive R1,6								
THES060404FR-P	0,05/0,30	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4								
THES060408FR-P	0,05/0,30	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8								

● = P ● = M ● = K ● = N ● = S ○ = H

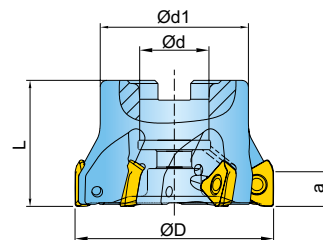
SPARE PARTS
ACCESSOIRES



SM25-065-R0 (1,1Nm) DS-T08S

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

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	d	d1	L	a	Z			
KJ6G050R00	50	22	45	40	11	4	1,5°	✓	0,27
KJ5G050R00 ¹⁾	50	22	45	40	11	5	1,5°	✓	0,30
KJ6G063R00	63	22	47	40	11	4	1,1°	✓	0,40
KJ5G063R00 ¹⁾	63	22	47	40	11	6	1,1°	✓	0,50
KJ6G080R00	80	27	58	50	11	6	0,8°	✓	0,91
KJ5G080R00 ¹⁾	80	27	58	50	11	8	0,8°	✓	1,00
KJ6G100R00	100	32	85	50	11	8	0,6°	✓	1,78
KJ5G100R00 ¹⁾	100	32	85	50	11	10	0,6°	✓	1,90
KJ6G125R00	125	40	85	63	11	9	0,5°	✓	2,77
KJ5G125R00 ¹⁾	125	40	85	63	11	12	0,5°	✓	3,10

¹⁾ Narrow spacing (only for short chip producing materials) / Pas réduit (pour matières à copeaux courts)

THES100504R 	THLS100508R 	THLS100508R-HR
THES100508R 	THLS100516R 	THES100516R
THLS100524R 	THES100504FR-P 	THES100508FR-P

Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2510	IN2530	IN2540	IN4030
THES100504R	0,10/0,20	positive geometry, ground R0,4 / Géométrie positive affûtée R0,4								
THLS100508R	0,10/0,20	positive geometry R0,8 / Géométrie positive R0,8								
THLS100508R-HR	0,08/0,20	high positive geometry R0,8 / Géométrie très positive R0,8								
THES100508R	0,10/0,20	positive geometry, ground R0,8 / Géométrie positive affûtée R0,8								
THLS100516R	0,10/0,20	positive geometry R1,6 / Géométrie positive R1,6								
THES100516R	0,10/0,20	positive geometry, ground R1,6 / Géométrie positive affûtée R1,6								
THLS100524R	0,10/0,20	positive geometry R2,4 / Géométrie positive R2,4								
THES100504FR-P	0,05/0,35	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4								
THES100508FR-P	0,05/0,35	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8								

SPARE PARTS
ACCESSOIRES

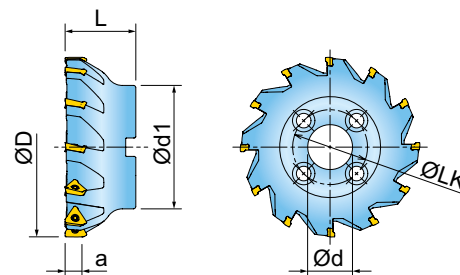
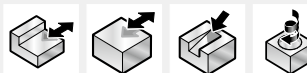


SM40-100-R0 (4,5Nm) DS-T15S

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

HIPOSOTRIO™ SHOULDER-TYPE FACE MILL KJ_P FRAISE À SURFACER-DRESSER KJ_P

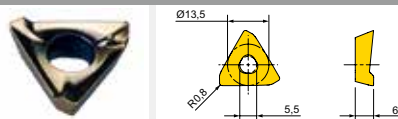
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



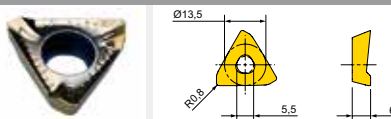
Designation Réf. de l'article	D	d	d1	LK	L	a	Z			
KJ6P063R00	63	22	47	-	40	15	4	1,7°	✓	0,40
KJ5P063R00 ¹⁾	63	22	47	-	40	15	6	1,7°	✓	0,93
KJ6P080R00	80	27	58	-	50	15	5	1,3°	✓	0,89
KJ5P080R00 ¹⁾	80	27	58	-	50	15	7	1,3°	✓	0,95
KJ6P100R00	100	32	85	-	50	15	6	1,0°	✓	1,71
KJ5P100R00 ¹⁾	100	32	85	-	50	15	8	1,0°	✓	2,56
KJ6P125R00	125	40	85	-	63	15	8	0,8°	✓	2,86
KJ5P125R00 ¹⁾	125	40	85	-	63	15	10	0,8°	✓	3,10
KJ6P160R00	160	40	110	66,7	63	15	9	0,6°		3,91
KJ5P160R00 ¹⁾	160	40	110	66,7	63	15	12	0,6°		4,33

¹⁾Narrow spacing (only for short chip producing materials) / Pas réduit (pour matières à copeaux courts)

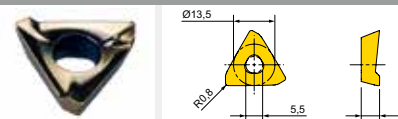
THLS130608R



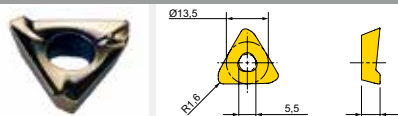
THLS130608R-HR



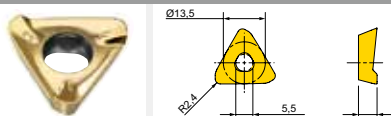
THES130608R



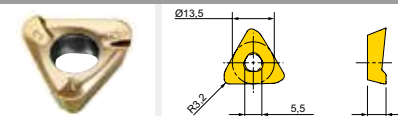
THLS130616R



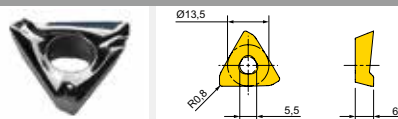
THLS130624R



THLS130632R



THES130608FR-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2510	IN2530	IN2540	IN4030
THLS130608R	0,10/0,25	positive geometry R0,8 / Géométrie positive R0,8								
THLS130608R-HR	0,08/0,25	high positive geometry R0,8 / Géométrie très positive R0,8								
THES130608R	0,10/0,25	positive geometry, ground R0,8 / Géométrie positive affûtée R0,8								
THLS130616R	0,10/0,25	positive geometry R1,6 / Géométrie positive R1,6								
THLS130624R	0,10/0,25	positive geometry R2,4 / Géométrie positive R2,4								
THLS130632R	0,10/0,25	positive geometry R3,2 / Géométrie positive R3,2								
THES130608FR-P	0,05/0,40	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8								

● = P ● = M ● = K ● = N ● = S ○ = H

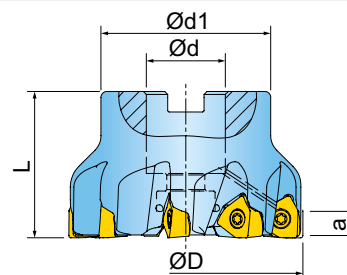
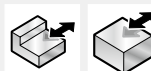
SPARE PARTS
ACCESSOIRES



SM45-120-R0 (5,0Nm) DS-T20T

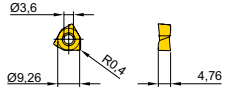
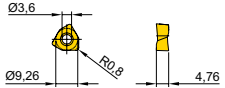
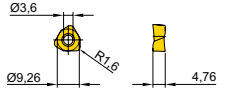
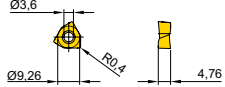
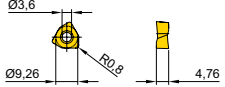
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	d	d1	L	a	Z	IK	kg
DJ5F040R00 ¹⁾	40	16	38	40	6,2	4	✓	0,30
DJ6F050R00	50	22	45	40	6,2	4	✓	0,32
DJ5F050R00 ¹⁾	50	22	45	40	6,2	6	✓	0,40
DJ6F063R00	63	22	47	40	6,2	5	✓	0,46
DJ5F063R00 ¹⁾	63	22	47	40	6,2	7	✓	0,50
DJ6F080R00	80	27	58	50	6,2	7	✓	0,95
DJ5F080R00 ¹⁾	80	27	58	50	6,2	9	✓	1,00
DJ6F100R00	100	32	85	50	6,2	8	✓	1,83
DJ5F100R00 ¹⁾	100	32	85	50	6,2	11	✓	1,90
DJ6F125R00	125	40	85	63	6,2	10	✓	2,98
DJ5F125R00 ¹⁾	125	40	85	63	6,2	14	✓	3,20

¹⁾ Narrow spacing (only for short chip producing materials) / Pas réduit (pour matières à copeaux courts)

WNGU090404R		WNGU090408R		WNGU090416R							
											
WNGU090404FR-P		WNGU090408FR-P									
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2510	IN2530	IN2540		
WNGU090404R	0,08/0,22	positive geometry R0,4 / Géométrie positive R0,4									
WNGU090408R	0,08/0,22	positive geometry R0,8 / Géométrie positive R0,8									
WNGU090416R	0,08/0,22	positive geometry R1,6 / Géométrie positive R1,6									
WNGU090404FR-P	0,05/0,30	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									
WNGU090408FR-P	0,05/0,30	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									

● = P ● = M ● = K ● = N ● = S ○ = H

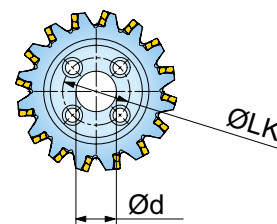
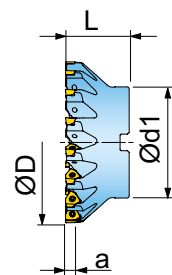
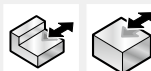
SPARE PARTS
ACCESSOIRES



SM30-085-10 (2,0Nm) DS-T09S

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

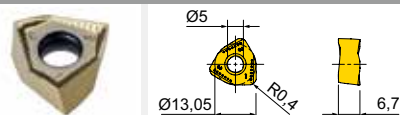
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



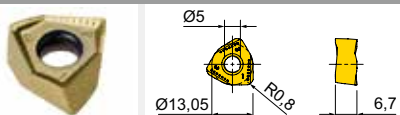
Designation Réf. de l'article	D	d	d1	LK	L	a	Z	IK	kg
DJ6P050R00	50	22	45	-	40	9,2	4	✓	0,31
DJ5P050R00 ¹⁾	50	22	45	-	40	9,2	5	✓	0,35
DJ6P063R00	63	22	47	-	40	9,2	5	✓	0,46
DJ5P063R00 ¹⁾	63	22	47	-	40	9,2	7	✓	0,51
DJ6P080R00	80	27	58	-	50	9,2	6	✓	0,95
DJ5P080R00 ¹⁾	80	27	58	-	50	9,2	9	✓	1,07
DJ6P100R00	100	32	85	-	50	9,2	7	✓	1,40
DJ5P100R00 ¹⁾	100	32	85	-	50	9,2	11	✓	1,90
DJ6P125R00	125	40	85	-	63	9,2	9	✓	3,04
DJ5P125R00 ¹⁾	125	40	85	-	63	9,2	14	✓	3,15
DJ6P160R00	160	40	110	66,7	63	9,2	11		3,86
DJ5P160R00 ¹⁾	160	40	110	66,7	63	9,2	16		4,29

¹⁾Narrow spacing (only for short chip producing materials) / Pas réduit (pour matières à copeaux courts)

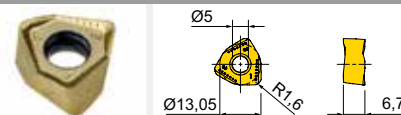
WNGU130604R



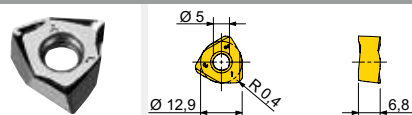
WNGU130608R



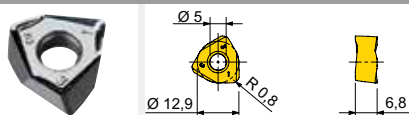
WNGU130616R



WNGU130604FR-P



WNGU130608FR-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2505	IN2510	IN2530	IN2540			
WNGU130604R	0,10/0,25	positive geometry R0,4 / Géométrie positive R0,4									
WNGU130608R	0,10/0,25	positive geometry R0,8 / Géométrie positive R0,8									
WNGU130616R	0,10/0,25	positive geometry R1,6 / Géométrie positive R1,6									
WNGU130604FR-P	0,05/0,40	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									
WNGU130608FR-P	0,05/0,40	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									

● = P ● = M ● = K ● = N ● = S ○ = H

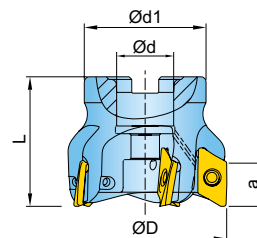
SPARE PARTS ACCESSOIRES



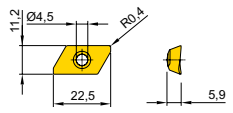
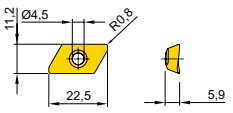
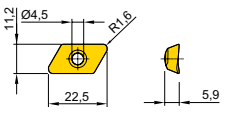
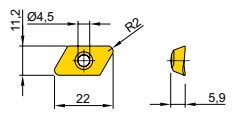
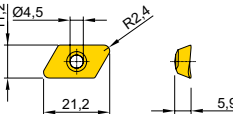
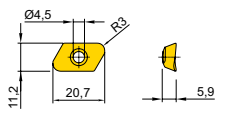
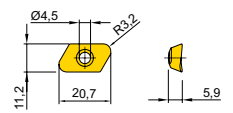
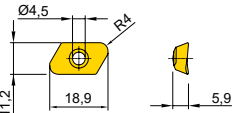
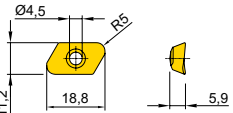
SM40-100-R0 (4,5Nm) DS-T15T

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

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	d	d1	L	a	Z		IK	kg
AX6K040R00	40	16	38	50	16	3	11,5°	✓	0,23
AX6K050R00	50	22	45	50	16	4	9,5°	✓	0,34
AX6K063R00	63	22	47	50	16	5	7,0°	✓	0,54
AX6K080R00	80	27	58	50	16	5	5,0°	✓	0,87
AX6K100R00	100	32	66	63	16	6	3,2°	✓	1,55
AX6K125R00	125	40	85	63	16	7	2,5°	✓	2,53

XECT160504FR-P  	XECT160508FR-P  	XECT160516FR-P  
XECT160520FR-P  	XECT160524FR-P  	XECT160530FR-P  
XECT160532FR-P  	XECT160540FR-P  	XECT160550FR-P  

Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K									
XECT160504FR-P	0,05/0,35	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4	●										
XECT160508FR-P	0,05/0,35	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8	●										
XECT160516FR-P	0,05/0,35	non-ferrous geometry, polished R1,6 / Géo. pour mat. non fer., polie R1,6	●										
XECT160520FR-P	0,05/0,35	non-ferrous geometry, polished R2,0 / Géo. pour mat. non fer., polie R2,0	●										
XECT160524FR-P	0,05/0,35	non-ferrous geometry, polished R2,4 / Géo. pour mat. non fer., polie R2,4	●										
XECT160530FR-P	0,05/0,35	non-ferrous geometry, polished R3,0 / Géo. pour mat. non fer., polie R3,0	●										
XECT160532FR-P	0,05/0,35	non-ferrous geometry, polished R3,2 / Géo. pour mat. non fer., polie R3,2	●										
XECT160540FR-P ¹⁾	0,05/0,35	non-ferrous geometry, polished R4,0 / Géo. pour mat. non fer., polie R4,0	●										
XECT160550FR-P ¹⁾	0,05/0,35	non-ferrous geometry, polished R5,0 / Géo. pour mat. non fer., polie R5,0	●										

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

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

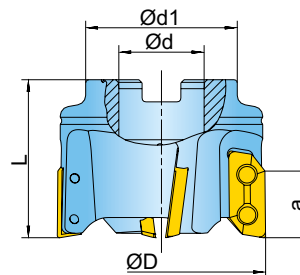
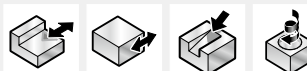


SM40-093-20 (4,5Nm) DS-T15T

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

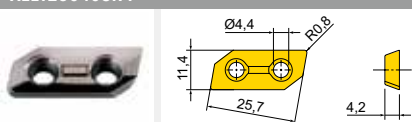
ROUGH[®]AIR™ SHOULDER-TYPE FACE MILL 5X6X FRAISE A SURFACER-DRESSER 5X6X

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

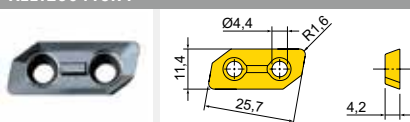


Designation Réf. de l'article	D	d	d1	L	a	Z			
5X6X050R00	50	22	40	50	21	3	9,0°	✓	0,32
5X6X052R00	52	22	40	50	21	3	9,0°	✓	0,35
5X6X063R00	63	27	48	50	21	4	6,0°	✓	0,55
5X6X066R00	66	27	48	50	21	4	6,0°	✓	0,60
5X6X080R00	80	27	60	50	21	5	5,0°	✓	1,00
5X6X100R00	100	32	70	50	21	5	4,0°		1,60
5X6X125R00	125	40	90	63	21	6	3,0°		3,20

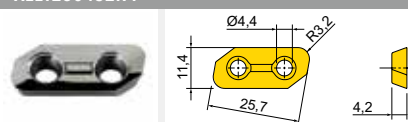
XEET250408R-P



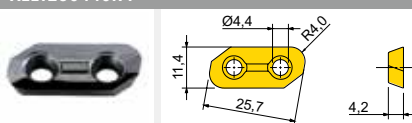
XEET250416R-P



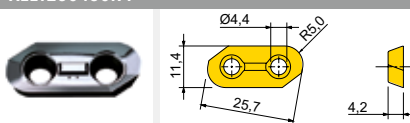
XEET250432R-P



XEET250440R-P



XEET250450R-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN15K							
XEET250408R-P	0,05/0,35	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
XEET250416R-P	0,05/0,35	non-ferrous geometry, polished R1,6 / Géo. pour mat. non fer., polie R1,6									
XEET250432R-P	0,05/0,35	non-ferrous geometry, polished R3,2 / Géo. pour mat. non fer., polie R3,2									
XEET250440R-P	0,05/0,35	non-ferrous geometry, polished R4,0 / Géo. pour mat. non fer., polie R4,0									
XEET250450R-P ¹⁾	0,05/0,35	non-ferrous geometry, polished R5,0 / Géo. pour mat. non fer., polie R5,0									

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

● = P ● = M ● = K ● = N ● = S ○ = H

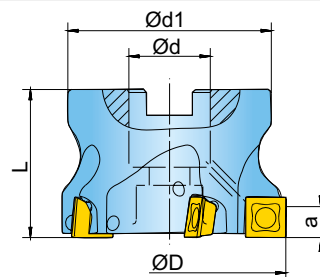
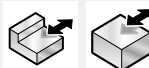
SPARE PARTS
ACCESSOIRES



SM40-090-00 (4,5Nm) DS-T15S

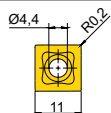
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

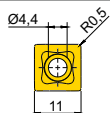


Designation Réf. de l'article	D	d	d1	L	a	Z		IK	kg
5H6G050R00	50	22	45	40	8,4	4	2,0°	✓	0,24
5H6G063R00	63	22	55	40	8,4	5	1,0°	✓	0,45
5H6G080R00	80	27	70	50	8,4	7	0,5°	✓	1,08
5H6G100R00	100	32	85	50	8,4	9	0,5°	✓	1,72

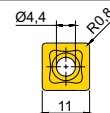
SHET110502FR-P



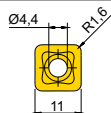
SHET110505FR-P



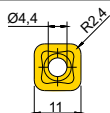
SHET110508FR-P



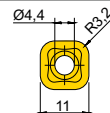
SHET110516FR-P



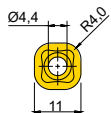
SHET110524FN-P



SHET110532FN-P



SHET110540FN-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN15K									
SHET110502FR-P	0,05/0,30	non-ferrous geometry, polished R0,2 / Géo. pour mat. non fer., polie R0,2	●										
SHET110505FR-P	0,05/0,30	non-ferrous geometry, polished R0,5 / Géo. pour mat. non fer., polie R0,5	●										
SHET110508FR-P	0,05/0,30	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8	●										
SHET110516FR-P	0,05/0,30	non-ferrous geometry, polished R1,6 / Géo. pour mat. non fer., polie R1,6	●										
SHET110524FN-P	0,05/0,30	non-ferrous geometry, polished R2,4 / Géo. pour mat. non fer., polie R2,4	●										
SHET110532FN-P	0,05/0,30	non-ferrous geometry, polished R3,2 / Géo. pour mat. non fer., polie R3,2	●										
SHET110540FN-P	0,05/0,30	non-ferrous geometry, polished R4,0 / Géo. pour mat. non fer., polie R4,0	●										

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

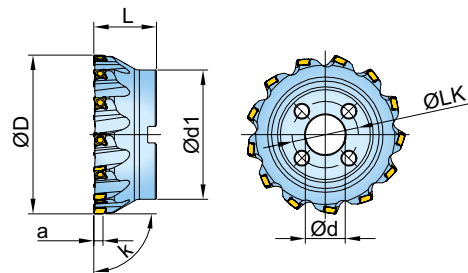
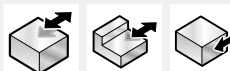


SM40-093-20 (4,5Nm) DS-T15S

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

SHOULDER-TYPE FACE MILL VJ_K **FRAISE À SURFACER-DRESSER VJ_K**

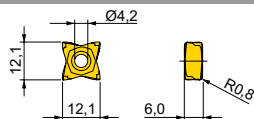
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	d	d1	LK	L	κ	a	Z		
VJ5K050R00 ¹⁾	50	22	45	-	40	90	8,7	6	✓	0,39
VJ6K050R00	50	22	45	-	40	90	8,7	5	✓	0,37
VJ5K063R00 ¹⁾	63	22	55	-	40	90	8,7	8	✓	0,65
VJ6K063R00	63	22	55	-	40	90	8,7	6	✓	0,63
VJ5K080R00 ¹⁾	80	27	70	-	50	90	8,7	10	✓	1,31
VJ6K080R00	80	27	70	-	50	90	8,7	8	✓	1,28
VJ5K100R00 ¹⁾	100	32	80	-	50	90	8,7	13	✓	2,02
VJ6K100R00	100	32	80	-	50	90	8,7	9	✓	1,93
VJ5K125R00 ¹⁾	125	40	100	-	63	90	8,7	16		4,00
VJ6K125R00	125	40	100	-	63	90	8,7	10		3,97
VJ5K160R00 ¹⁾	160	40	130	66,7	63	90	8,7	21		5,16
VJ6K160R00	160	40	130	66,7	63	90	8,7	13		4,90

¹⁾Narrow spacing (only for short chip producing materials) / Pas réduit (pour matières à copeaux courts)

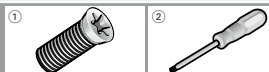
SGM-44R001



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2505	IN2530	IN4005	IN4015	IN4030			
SGM-44R001	0,10/0,25	positive geometry R0,8 / Géométrie positive R0,8									

● = P ● = M ● = K ● = N ● = S ○ = H

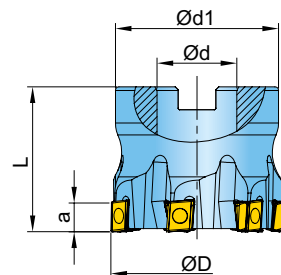
SPARE PARTS
ACCESSOIRES



SM40-120-20 (4,5Nm) DS-T15S

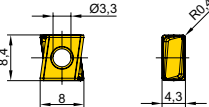
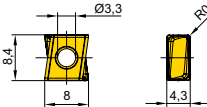
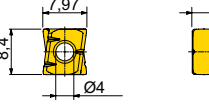
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	d	d1	L	a	Z			
SJ6Y032R00	32	16	30	32	7,5	3	0,3°	✓	0,09
SJ5Y032R00 ¹⁾	32	16	30	32	7,5	5	0,3°	✓	0,10
SJ6Y040R00	40	22	38	40	7,5	4	0,3°	✓	0,19
SJ5Y040R00 ¹⁾	40	22	38	40	7,5	6	0,3°	✓	0,35
SJ6Y050R00	50	22	45	40	7,5	5	0,2°	✓	0,33
SJ5Y050R00 ¹⁾	50	22	45	40	7,5	7	0,2°	✓	0,35
SJ6Y063R00	63	22	55	40	7,5	6	0,2°	✓	0,53
SJ5Y063R00 ¹⁾	63	22	55	40	7,5	9	0,2°	✓	0,54
SJ6Y080R00	80	27	70	50	7,5	7	0,1°	✓	1,22
SJ5Y080R00 ¹⁾	80	27	70	50	7,5	11	0,1°	✓	1,25

¹⁾ Narrow spacing (only for short chip producing materials) / Pas réduit (pour matières à copeaux courts)

DGM212R100			DGM212R101			ZGM212R101					
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2004	IN2505	IN2530	IN4015	IN4030	IN4035		
DGM212R100	0,10/0,15	positive geometry R0,4 / Géométrie positive R 0,4									
DGM212R101	0,10/0,15	positive geometry R0,8 / Géométrie positive R 0,8									
ZGM212R101	0,10/0,15	chipbreaker geometry R0,8 / Géométrie avec brise-copeaux R0,8									

● = P ● = M ● = K ● = N ● = S ○ = H

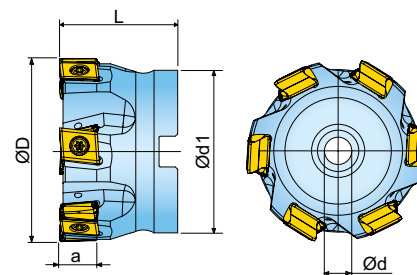
SPARE PARTS
ACCESSOIRES



SM30-082-20 (2,0Nm) DS-TP08S (TX-Plus)

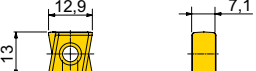
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	d	d1	L	κ	a	Z	IK	kg
EJ6J050R00	50	22	45	40	90	12	5	✓	0,38
EJ5J050R00	50	22	45	40	90	12	6	✓	0,39
EJ6J063R00	63	22	55	40	90	12	6	✓	0,63
EJ5J063R00 ¹⁾	63	22	55	40	90	12	8	✓	0,65
EJ6J080R00	80	27	70	50	90	12	7	✓	1,35
EJ5J080R00 ¹⁾	80	27	70	50	90	12	10	✓	1,37
EJ6J100R00	100	32	80	50	90	12	9	✓	1,97
EJ5J100R00 ¹⁾	100	32	80	50	90	12	13	✓	1,99
EJ6J125R00	125	40	100	63	90	12	11	✓	3,97
EJ5J125R00 ¹⁾	125	40	100	63	90	12	16	✓	4,00

¹⁾Narrow spacing (only for short chip producing materials) / Pas réduit (pour matières à copeaux courts)

DGM324R300			DGM324R301			DGM324R302					
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2505	IN4015	IN4030	IN4035	IN4040			
DGM324R300	0,10/0,25	positive geometry R0,8 / Géométrie positive R0,8									
DGM324R301	0,10/0,25	positive geometry R1,6 / Géométrie positive R1,6									
DGM324R302	0,10/0,25	positive geometry R3,2 / Géométrie positive R3,2									

● = P ● = M ● = K ● = N ● = S ○ = H

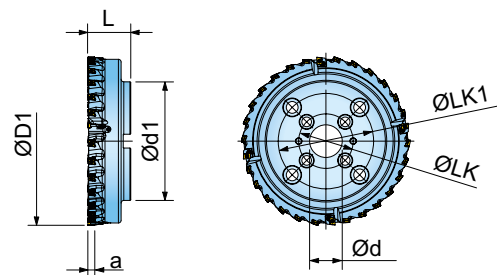
SPARE PARTS
ACCESSOIRES



SM40-143-H0 (4,5Nm) DS-T15S

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

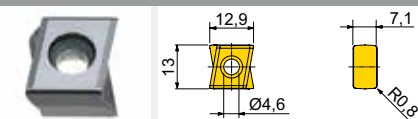
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



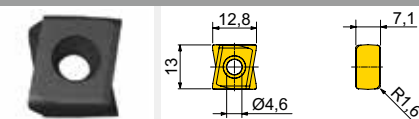
Designation Réf. de l'article	D	d	d1	LK	LK1	L	κ	a	Z	Z _{eff}	Z _s	kg
EF2J100R00	100	32	80	-	-	50	90	12	8/2	10	2	1,70
EF2J125R00	125	40	100	-	-	63	90	12	10/2	12	2	3,75
EF2J160R00	160	40	130	66,7	-	63	90	12	12/3	15	3	5,20
EF2J200R00	200	60	160	101,6	-	63	90	12	15/3	18	3	8,07
EF2J250R00	250	60	221	101,6	-	63	90	12	20/4	24	4	13,20
EF2J315R00	315	60	221	101,6	177,8	80	90	12	26/4	30	4	26,80

Cutter is supplied with cartridge 56B183R01. / Fraise livrée avec cartouche 56B183R01.

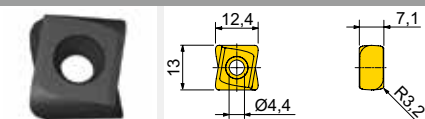
DGM324R300



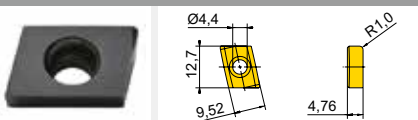
DGM324R301



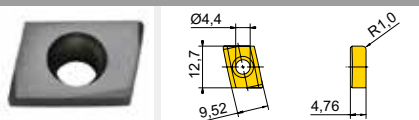
DGM324R302



YDA323L101



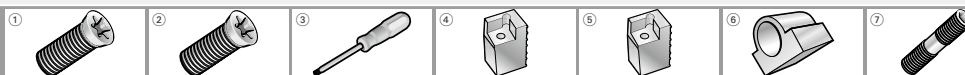
YDA323L114



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN0560	IN2010	IN2040	IN2505	IN4015	IN4030	IN4035
DGM324R300	0,10/0,25	positive geometry R0,8 / Géométrie positive R0,8									
DGM324R301	0,10/0,25	positive geometry R1,6 / Géométrie positive R1,6									
DGM324R302	0,10/0,25	positive geometry R3,2 / Géométrie positive R3,2									
YDA323L101	fu 1/5	wiper finishing edge R1,0 / Plaquette racleuse R1,0									
YDA323L114	fu 1/5	short wiper finishing edge R1,0 / Plaquette racleuse R1,0									

● = P ● = M ● = K ● = N ● = S ○ = H

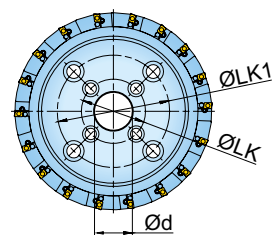
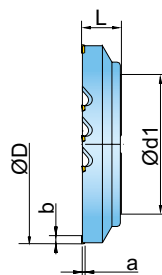
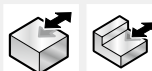
SPARE PARTS ACCESSOIRES



SM40-143-H0 (4,5Nm) SM40-110-00 (4,5Nm) DS-T155 56B183R01 5EJ183R00 KR012-002 SB060-01

① = Insert screw / Vis de serrage plaquette ② = Insert screw / Vis de serrage ③ = Screw driver / Tournevis ④ = Cartridge for YDA323... / Cartouche pour YDA323...
⑤ = Cartridge for DGM324R3... / Cartouche DGM324R3... ⑥ = Circular wedge / Butée ⑦ = Differential screw / Vis à pas différentiel

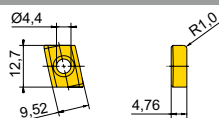
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



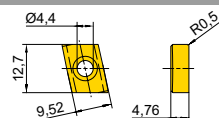
Designation Réf. de l'article	D	d	d1	LK	LK1	L	a	b	Z	kg
6F2B050R00	50	22	44	-	-	40	0,5	10	3	0,40
6F2B063R00	63	22	48	-	-	40	0,5	10	3	0,60
6F2B080R00	80	27	70	-	-	50	0,5	10	4	1,50
6F2B100R00	100	32	80	-	-	50	0,5	10	6	2,00
6F2B125R00	125	40	100	-	-	63	0,5	10	6	3,50
6F2B160R00	160	40	130	66,7	-	63	0,5	10	8	5,00
6F2B200R00	200	60	160	101,6	-	63	0,5	10	10	8,00
6F2B250R00	250	60	220	101,6	-	63	0,5	10	12	13,0
6F2B315R00	315	60	220	101,6	177,8	63	0,5	10	18	26,0

For setting screw use wrench DS-H04T / Pour les vis de réglage utiliser un tournevis DSH04T

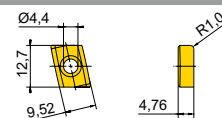
YDA323L101



YDA323L104



YDA323L114



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN0560	IN2010	IN2040				
YDA323L101	fu 1/5	wiper finishing edge R1,0 / Plaquette racleuse R1,0									
YDA323L104	fu 1/5	wiper finishing edge R0,5 / Plaquette racleuse R0,5									
YDA323L114	fu 1/5	short wiper finishing edge R1,0 / Plaquette racleuse R1,0									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



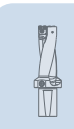
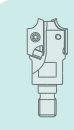
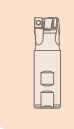
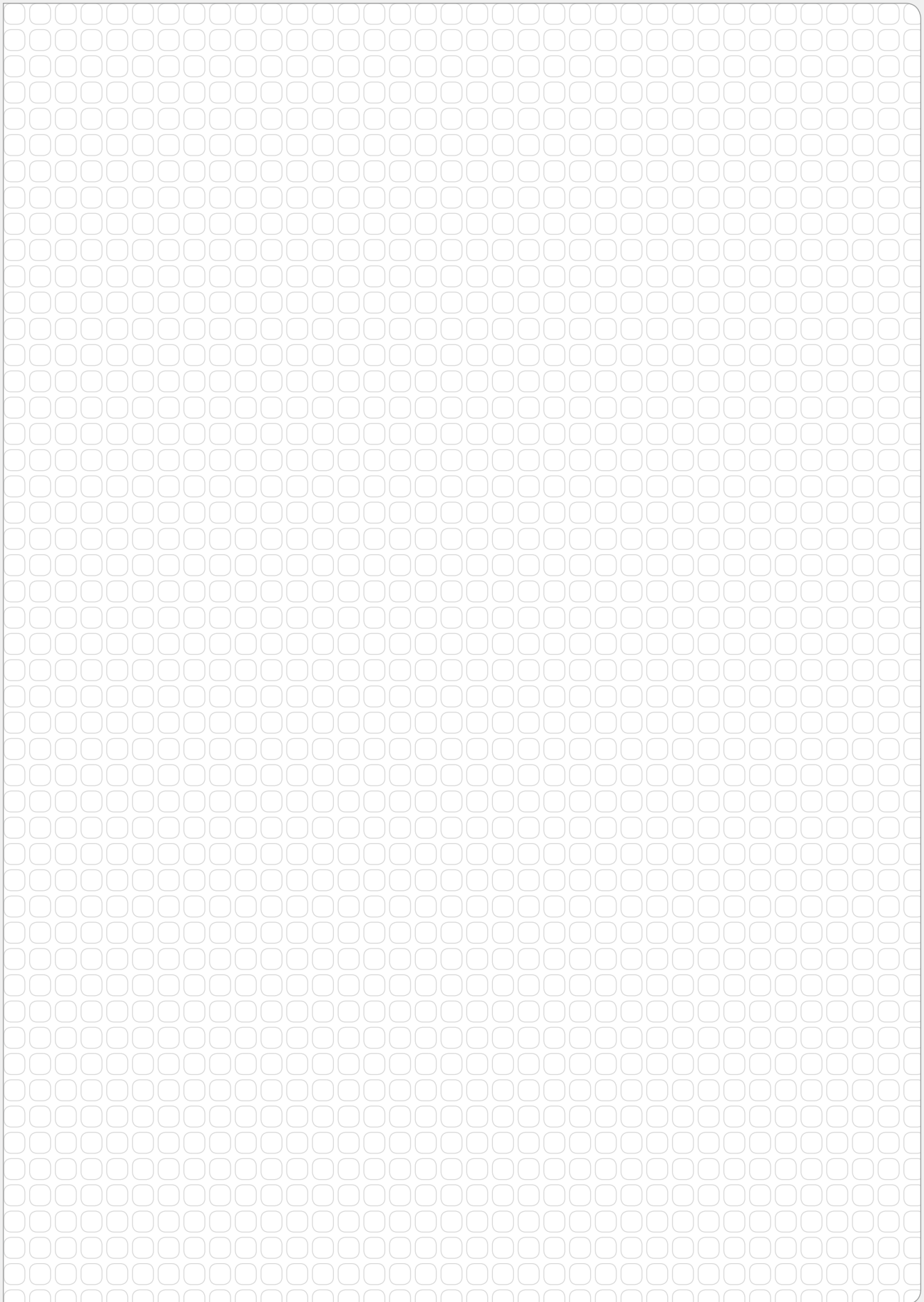
SM40-110-00 (4,5Nm) DS-T15S

SC050-01

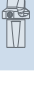
PN072-03

① = Insert screw / Vis de serrage ② = Screw driver / Tournevis ③ = Setting screw / Vis de réglage ④ = Eccentric pin / Pion excentrique

NOTES

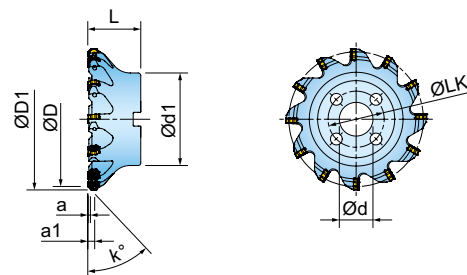
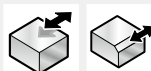


FACE MILLS / FRAISES À SURFACER

	D	a	Description	Code / Série	Page
		40 - 160	3	OCTOPLUS™ Face Mill ON_H Fraise à surfacer ON_H	ON_H 98
		63 - 315	5	OCTOPLUS™ Face Mill OP6N Fraise à surfacer OP6N	OP6N 100
		80 - 315	5	OCTOPLUS™ Face Mill OP5N Fraise à surfacer OP5N	OP5N 102
		24,3 - 32	3,4	ROTOMILL™ Face Mill 15N1H...X Fraise à surfacer 15N1H...X	15N1H...X 104
		33 - 125	3,4	ROTOMILL™ Face Mill 5N_H Fraise à surfacer 5N_H	5N_H 105
		50 - 160	4,8	ROTOMILL™ Face Mill 5N_L Fraise à surfacer 5N_L	5N_L 106
		40 - 160	6	DIPOSEDEKA™ Face Mill DM_G Fraise à surfacer DM_G	DM_G 107
		50 - 250	6	ISOPLUS™ Face Mill DN_H Fraise à surfacer DN_H	DN_H 108
		80 - 315	9	HIPOPOSQUAD™ Face Mill 5N6R Fraise à surfacer 5N6R	5N6R 109
		125 - 315	13	SOMAX™ Face Mill SN2R Fraise à surfacer SN2R	SN2R 110
		160 - 400	0,5	MICROMILL™ Finish Mill 7F2K Fraise de finition 7F2K	7F2K 111

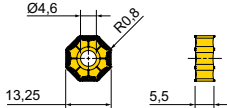
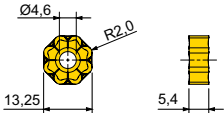
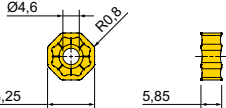
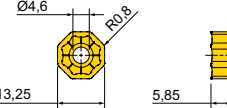
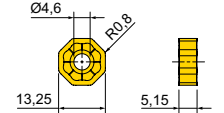
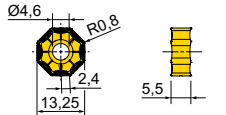
Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	D1	d	d1	LK	L	κ	a	a1	Z	IK	kg
ON6H040R00	40	48,3	16	30	-	40	43	3	8	4	✓	0,17
ON6H050R00	50	58,3	22	45	-	40	43	3	8	4	✓	0,31
ON5H050R00 ¹⁾	50	58,3	22	45	-	40	43	3	8	6	✓	0,32
ON6H063R00	63	71,3	22	55	-	40	43	3	8	6	✓	0,53
ON5H063R00 ¹⁾	63	71,3	22	55	-	40	43	3	8	8	✓	0,55
ON6H080R00	80	88,3	27	70	-	50	43	3	8	7	✓	1,17
ON5H080R00 ¹⁾	80	88,3	27	70	-	50	43	3	8	10	✓	1,25
ON6H100R00	100	108,3	32	85	-	55	43	3	8	8	✓	2,00
ON5H100R00 ¹⁾	100	108,3	32	85	-	55	43	3	8	12	✓	2,16
ON6H125R00	125	133,3	40	100	-	63	43	3	8	10	✓	3,54
ON5H125R00 ¹⁾	125	133,3	40	100	-	63	43	3	8	16	✓	3,70
ON6H160R00	160	168,3	40	110	66,7	63	43	3	8	12		3,62
ON5H160R00 ¹⁾	160	168,3	40	110	66,7	63	43	3	8	20		3,74

¹⁾ Narrow spacing (only for short chip producing materials) / Pas réduit (pour matières à copeaux courts)

ONCU0505ANTN-HR			ONCU050520TN			ONCU0505ANEN					
											
ONCU0505ANFN-P			ONCU0505ANN			ONCU0505ANTN-W					
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN4010	IN4030	IN6535	IN70N	
ONCU0505ANTN-HR	0,22/0,40	positive geometry / Géométrie positive									
ONCU050520TN	0,08/0,35	roughing geometry / Géométrie d'ébauche									
ONCU0505ANEN	0,08/0,30	high positive geometry / Géométrie hautement positive									
ONCU0505ANFN-P	0,05/0,30	non-ferrous geometry, polished / Géo. pour mat. non fer., polie									
ONCU0505ANN	0,10/0,18	positive geometry silicon nitride / Géométrie positive céramique									
ONCU0505ANTN-W	fu max. = 2,4	wiper finishing insert / Plaquette racleuse									

● = P ● = M ● = K ● = N ● = S ○ = H

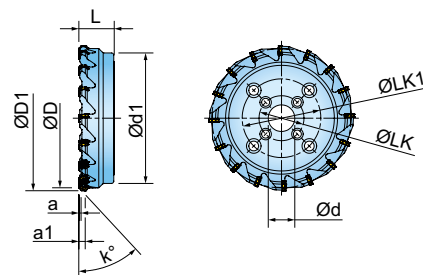
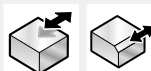
SPARE PARTS ACCESSOIRES



SM40-100-10 (4,5Nm) DS-T15S

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

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	D1	d	d1	LK	LK1	L	κ	a	a1	Z	ik	kg
OP6N063R00	63	76,6	22	55	-	-	40	43	5	14	5	✓	0,55
OP6N063L00 ¹⁾	63	76,6	22	55	-	-	40	43	5	14	5	✓	0,55
OP6N080R00	80	93,6	27	70	-	-	55	43	5	14	6	✓	1,37
OP6N080L00 ¹⁾	80	93,6	27	70	-	-	55	43	5	14	6	✓	1,37
OP6N100R00	100	113,6	32	85	-	-	55	43	5	14	7	✓	2,16
OP6N100L00 ¹⁾	100	113,6	32	85	-	-	55	43	5	14	7	✓	2,16
OP6N125R00	125	138,6	40	100	-	-	63	43	5	14	8	✓	3,87
OP6N125L00 ¹⁾	125	138,6	40	100	-	-	63	43	5	14	8	✓	3,87
OP6N160R00	160	173,6	40	130	66,7	-	63	43	5	14	10		5,95
OP6N160L00 ¹⁾	160	173,6	40	130	66,7	-	63	43	5	14	10		5,95
OP6N200R00	200	213,6	60	160	101,6	-	63	43	5	14	12		8,65
OP6N200L00 ¹⁾	200	213,6	60	160	101,6	-	63	43	5	14	12		8,65
OP6N250R00	250	263,6	60	190	101,6	-	63	43	5	14	14		14,05
OP6N250L00 ¹⁾	250	263,6	60	190	101,6	-	63	43	5	14	14		14,05
OP6N315R00	315	328,6	60	255	101,6	177,8	80	43	5	14	16		26,38
OP6N315L00 ¹⁾	315	328,6	60	255	101,6	177,8	80	43	5	14	16		26,38

¹⁾ Left hand rotating tool / Outil à gauche

ONCU090612TN-HR			ONCU0906ANTN-HR			ONCU090630TN					
ONCQ090612TN			ONCU0906ANFN-WE			ONCQ0906ANN					
ONCU090612FN-P			ONCU090612TN-W			ONCU0906ANTN-W					
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2510	IN4005	IN4010	IN4030	IN70N
ONCU090612TN-HR	0,30/0,40	positive geometry R1,2 / Géométrie positive R1,2									
ONCU0906ANTN-HR	0,30/0,40	positive geometry / Géométrie positive									
ONCU090630TN	0,08/0,40	roughing geometry / Géométrie d'ébauche									
ONCQ090612TN	0,25/0,50	neutral geometry, K-land / Géo. neutre avec chan. d'arête									
ONCU0906ANFN-WE	0,08/0,40	positive cast iron geometry / Géométrie positive pour fonte									
ONCQ0906ANN	0,10/0,30	neutral geometry silicon nitride / Géométrie neutre céramique									
ONCU090612FN-P	0,05/0,40	non-ferrous geometry, polished / Géo. pour mat. non fer., polie									
ONCU090612TN-W	fu max. = 3,9	wiper finishing insert / Plaquette racleuse									
ONCU0906ANTN-W	fu max. = 3,8	wiper finishing insert / Plaquette racleuse									

● = P ● = M ● = K ● = N ● = S ○ = H

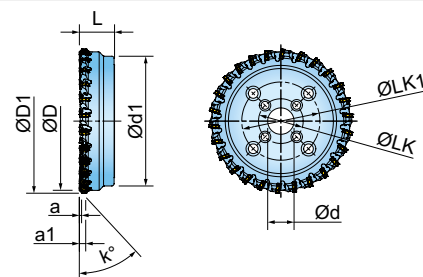
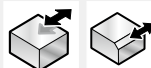
SPARE PARTS ACCESSOIRES



SM50-130-R0 (6,0Nm) DS-T20T

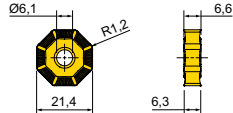
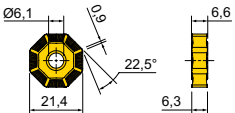
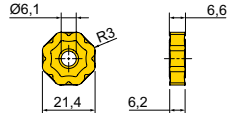
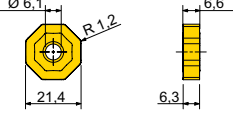
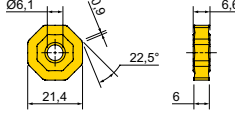
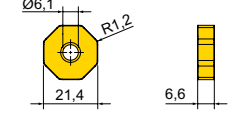
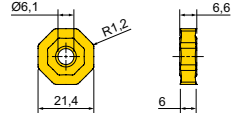
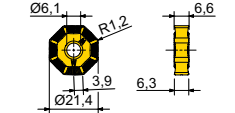
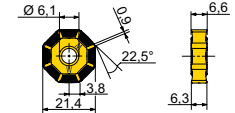
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	D1	d	d1	LK	LK1	L	κ	a	a1	Z	✓	kg
OP5N080R00	80	93,8	27	70	-	-	55	43	5	14	7	✓	1,42
OP5N080L00 ¹⁾	80	93,8	27	70	-	-	55	43	5	14	7	✓	1,42
OP5N100R00	100	113,7	32	85	-	-	55	43	5	14	9	✓	2,15
OP5N100L00 ¹⁾	100	113,7	32	85	-	-	55	43	5	14	9	✓	2,15
OP5N125R00	125	138,6	40	100	-	-	63	43	5	14	12	✓	3,87
OP5N125L00 ¹⁾	125	138,6	40	100	-	-	63	43	5	14	12	✓	3,87
OP5N160R00	160	173,6	40	130	66,7	-	63	43	5	14	15		6,03
OP5N160L00 ¹⁾	160	173,6	40	130	66,7	-	63	43	5	14	15		6,03
OP5N200R00	200	213,6	60	160	101,6	-	63	43	5	14	18		8,77
OP5N200L00 ¹⁾	200	213,6	60	160	101,6	-	63	43	5	14	18		8,77
OP5N250R00	250	263,4	60	190	101,6	-	63	43	5	14	22		14,15
OP5N250L00 ¹⁾	250	263,4	60	190	101,6	-	63	43	5	14	22		14,15
OP5N315R00	315	328,5	60	255	101,6	177,8	80	43	5	14	26		26,71
OP5N315L00 ¹⁾	315	328,5	60	255	101,6	177,8	80	43	5	14	26		26,71
Narrow spacing (only for short chip producing materials) / Pas réduit (pour matières à copeaux courts)													

¹⁾Left hand rotating tool / Outil à gauche

ONCU090612TN-HR			ONCU0906ANTN-HR			ONCU090630TN					
											
ONCQ090612TN			ONCU0906ANFN-WE			ONCQ0906ANN					
											
ONCU090612FN-P			ONCU090612TN-W			ONCU0906ANTN-W					
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2510	IN4005	IN4010	IN4030	IN70N
ONCU090612TN-HR	0,30/0,40	positive geometry R1,2 / Géométrie positive R1,2									
ONCU0906ANTN-HR	0,30/0,40	positive geometry / Géométrie positive									
ONCU090630TN	0,08/0,40	roughing geometry / Géométrie d'ébauche									
ONCQ090612TN	0,25/0,50	neutral geometry, K-land / Géo. neutre avec chan. d'arête									
ONCU0906ANFN-WE	0,08/0,40	positive cast iron geometry / Géométrie positive pour fonte									
ONCQ0906ANN	0,10/0,30	neutral geometry silicon nitride / Géométrie neutre céramique									
ONCU090612FN-P	0,05/0,40	non-ferrous geometry, polished / Géo. pour mat. non fer., polie									
ONCU090612TN-W	fu max. = 3,9	wiper finishing insert / Plaquette racleuse									
ONCU0906ANTN-W	fu max. = 3,8	wiper finishing insert / Plaquette racleuse									

● = P ● = M ● = K ● = N ● = S ○ = H

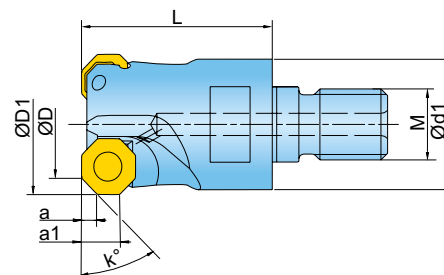
SPARE PARTS ACCESSOIRES



SM50-130-R0 (6,0Nm) DS-T20T

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

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation
Réf. de l'article

D

D1

d1

L

κ

a

a1

M

Z

κ°



15N1H024043X8R00
15N1H032043X8R00

24,3
32

32
40

29
29

43
43

43
43

3,4
3,4

8,3
8,3

16
16

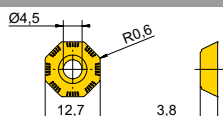
2
3

17,0°
9,0°

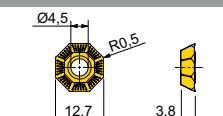
✓
✓

0,19
0,21

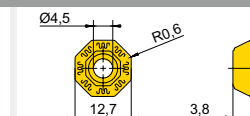
OFMT05T3AFN-HR



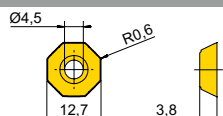
OFCT05T3AFTN-HR



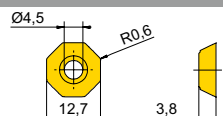
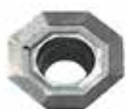
OFCT05T3TN



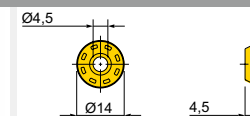
OFMW05T3AFTN



OFCT05T3AFFN-P



RFMT1404M0N-F



Designation
Réf. de l'article

fz(min/max)

Design
Execution

Grade
Nuance

IN10K

IN2035

IN2505

IN2510

IN2530

IN2540

IN4030

IN6535

OFMT05T3AFN-HR

0,10/0,25

high-positive geometry / Géométrie positive



OFCT05T3AFTN-HR

0,18/0,30

positive geometry, ground / Géométrie positive



OFCT05T3TN

0,20/0,35

semi-positive geometry / Géométrie semi-positive



OFMW05T3AFTN

0,20/0,40

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



OFCT05T3AFFN-P

0,05/0,30

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



RFMT1404M0N-F

0,15/0,30

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



● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

①



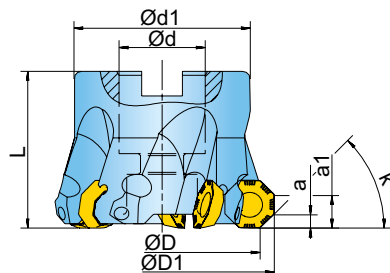
②



SM40-080-10 (4,5Nm) DS-T15S

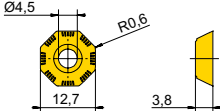
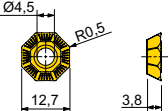
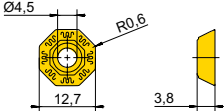
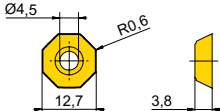
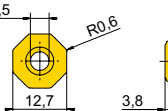
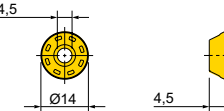
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	D1	d	d1	L	κ	a	a1	Z			
5N6H032R00	33	41,2	16	30	40	43	3,4	8,3	3	8,7°	✓	0,14
5N6H040R00	40	48,1	16	30	40	43	3,4	8,3	4	6,4°	✓	0,18
5N5H040R00 ¹⁾	40	48,1	16	30	40	43	3,4	8,3	5	6,4°	✓	0,15
5N6H050R00	50	58	22	45	40	43	3,4	8,3	5	4,7°	✓	0,34
5N5H050R00 ¹⁾	50	58	22	45	40	43	3,4	8,3	6	4,7°	✓	0,31
5N6H063R00	63	71	22	55	40	43	3,4	8,3	6	3,4°	✓	0,57
5N5H063R00 ¹⁾	63	71	22	55	40	43	3,4	8,3	8	3,4°	✓	0,55
5N6H080R00	80	87,9	27	70	50	43	3,4	8,3	7	2,6°	✓	1,23
5N5H080R00 ¹⁾	80	87,9	27	70	50	43	3,4	8,3	9	2,6°	✓	1,22
5N6H100R00	100	108	32	85	50	43	3,4	8,3	8	2,0°	✓	1,91
5N5H100R00 ¹⁾	100	108	32	85	50	43	3,4	8,3	10	2,0°	✓	1,82
5N6H125R00	125	133	40	100	63	43	3,4	8,3	9	1,5°	✓	3,66
5N5H125R00 ¹⁾	125	133	40	100	63	43	3,4	8,3	11	1,5°	✓	3,64

¹⁾ Narrow spacing (only for short chip producing materials) / Pas réduit (pour matières à copeaux courts)

OFMT05T3AFN-HR		OFCT05T3AFTN-HR		OFCT05T3TN							
											
OFMW05T3AFTN		OFCT05T3AFFN-P		RFMT1404MON-F							
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2510	IN2530	IN2540	IN4030	IN6535
OFMT05T3AFN-HR	0,10/0,25	high-positive geometry / Géométrie positive									
OFCT05T3AFTN-HR	0,18/0,30	positive geometry, ground / Géométrie positive									
OFCT05T3TN	0,20/0,35	semi-positive geometry / Géométrie semi-positive									
OFMW05T3AFTN	0,20/0,40	neutral geometry, K-land / Géo. neutre avec chan. d'arête									
OFCT05T3AFFN-P	0,05/0,30	non-ferrous geometry, polished / Géo. pour mat. non fer., polie									
RFMT1404MON-F	0,15/0,30	positive geometry, K-land / Géo. positive, chan. d'arête									
				 = P  = M  = K  = N  = S  =							

● = P ● = M ● = K ● = N ● = S ○ = H

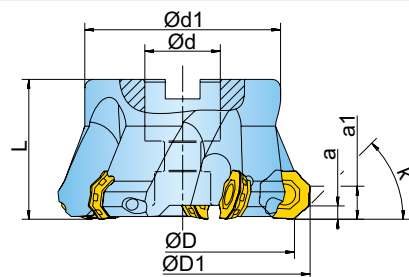
SPARE PARTS
ACCESSOIRES



SM40-100-R0 (4,5Nm) DS-T155

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

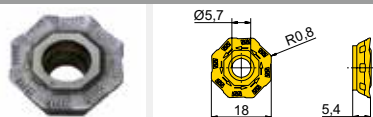
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



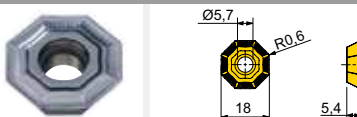
Designation Réf. de l'article	D	D1	d	d1	L	κ	a	a1	Z			
5N6L050R00	50	62	22	45	50	41	4,8	11,8	3	7,1°	✓	0,41
5N5L050R00 ¹⁾	50	62	22	45	50	41	4,8	11,8	4	7,1°	✓	0,38
5N6L063R00	63	75	22	55	40	41	4,8	11,8	4	5,1°	✓	0,51
5N5L063R00 ¹⁾	63	75	22	55	40	41	4,8	11,8	5	5,1°	✓	0,50
5N6L080R00	80	92	27	70	50	41	4,8	11,8	5	3,7°	✓	1,22
5N5L080R00 ¹⁾	80	92	27	70	50	41	4,8	11,8	7	3,7°	✓	1,17
5N6L100R00	100	112	32	85	50	41	4,8	11,8	6	2,8°	✓	1,82
5N5L100R00 ¹⁾	100	112	32	85	50	41	4,8	11,8	8	2,8°	✓	1,74
5N6L125R00	125	137	40	100	63	41	4,8	11,8	8	2,2°	✓	3,58
5N5L125R00 ¹⁾	125	137	40	90	63	41	4,8	11,8	9	2,2°	✓	3,40
5N6L160R00	160	172	40	100	63	41	4,8	11,8	10	1,6°		5,28
5N5L160R00 ¹⁾	160	172	40	90	63	41	4,8	11,8	11	1,6°		5,12

¹⁾Narrow spacing (only for short chip producing materials) / Pas réduit (pour matières à copeaux courts)

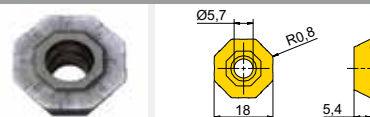
OFMT0705AFR-HR



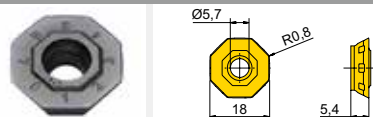
OFCT0705AFTN-HR



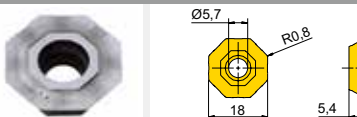
OFMT0705AFTN



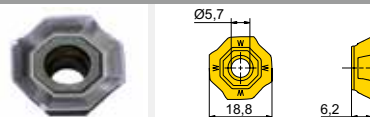
OFMW0705AFTN



OFCT0705AFFN-P



OFCT0705AFFR-W



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2035	IN2505	IN4005	IN4030	IN6535		
OFMT0705AFR-HR	0,15/0,30	high-positive geometry / Géométrie positive									
OFCT0705AFTN-HR	0,25/0,35	positive geometry, ground / Géométrie positive									
OFMT0705AFTN	0,15/0,30	semi-positive geometry / Géométrie semi-positive									
OFMW0705AFTN	0,25/0,50	neutral geometry, K-land / Géo. neutre avec chan. d'arête									
OFCT0705AFFN-P	0,05/0,30	positive non-ferrous geometry, polished / Géo. pos. pour mat. non fer., polie									
OFCT0705AFFR-W	0,15/0,30	wiper finishing insert / Plaquette racleuse									

● = P ● = M ● = K ● = N ● = S ○ = H

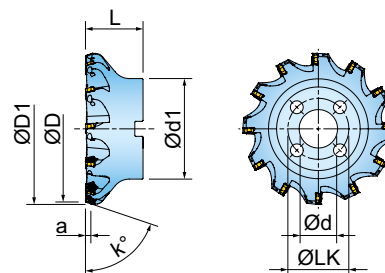
SPARE PARTS
ACCESSOIRES



SM50-130-R0 (6,0Nm) DS-T20T

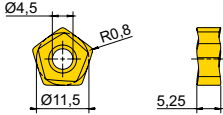
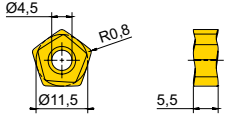
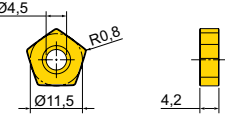
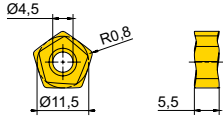
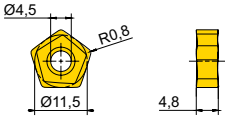
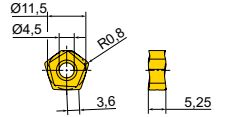
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	D1	d	d1	LK	L	κ	a	Z	IK	kg
DM6G040R00	40	45,4	16	30	-	40	70	6	4	✓	0,18
DM5G050R00 ¹⁾	50	55,4	22	45	-	40	70	6	6	✓	0,34
DM6G050R00	50	55,4	22	45	-	40	70	6	4	✓	0,32
DM5G063R00 ¹⁾	63	68,4	22	55	-	40	70	6	8	✓	0,58
DM6G063R00	63	68,4	22	55	-	40	70	6	6	✓	0,58
DM5G080R00 ¹⁾	80	85,4	27	70	-	50	70	6	10	✓	1,31
DM6G080R00	80	85,4	27	70	-	50	70	6	7	✓	1,30
DM5G100R00 ¹⁾	100	105,4	32	85	-	50	70	6	12	✓	2,00
DM6G100R00	100	105,4	32	85	-	50	70	6	8	✓	1,97
DM5G125R00 ¹⁾	125	130,4	40	100	-	63	70	6	16	✓	3,84
DM6G125R00	125	130,4	40	100	-	63	70	6	10	✓	3,82
DM5G160R00 ¹⁾	160	165,5	40	110	66,7	63	70	6	20		3,95
DM6G160R00	160	165,5	40	110	66,7	63	70	6	12		3,82

¹⁾ Narrow spacing (only for short chip producing materials) / Pas réduit (pour matières à copeaux courts)

PNCU0805GNTR			PNCU0805GNFR-HS			PNCQ0804GNTN				
										
PNCU0805GNFR-P			PNCU0805GNR			PNCU0805GNTR-W				
										
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN203S	IN250S	IN400S	IN401S	IN4030	IN70N
PNCU0805GNTR	0,22/0,40	positive geometry / Géométrie positive								
PNCU0805GNFR-HS	0,08/0,30	high positive geometry / Géométrie hautement positive								
PNCQ0804GNTN	0,21/0,40	neutral geometry, K-land / Géométrie neutre								
PNCU0805GNFR-P	0,05/0,40	positive non-ferrous geometry, polished / Géo. pour mat. non fer., polie								
PNCU0805GNR	0,10/0,18	positive geometry silicon nitride / Géométrie positive céramique								
PNCU0805GNTR-W	fu max. = 3,6	wiper insert / Plaquette racleuse								

● = P ● = M ● = K ● = N ● = S ○ = H

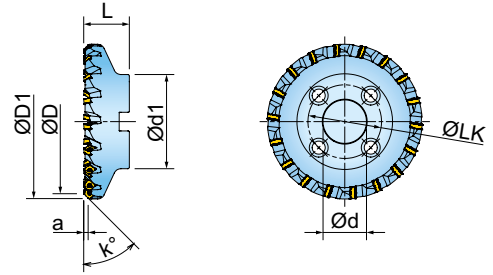
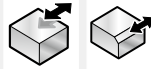
SPARE PARTS
ACCESSOIRES



SM40-100-10 (4,5Nm) DS-T15S

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

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	D1	d	d1	LK	L	κ	a	Z	IK	kg
DN6H050R00	50	64,5	22	45	-	40	45	6	4	✓	0,30
DN5H050R00 ¹⁾	50	64,5	22	45	-	40	45	6	6	✓	0,30
DN6H063R00	63	77,5	22	47	-	40	45	6	6	✓	0,50
DN5H063R00 ¹⁾	63	77,5	22	47	-	40	45	6	8	✓	0,50
DN6H080R00	80	94,5	27	70	-	50	45	6	7	✓	0,80
DN5H080R00 ¹⁾	80	94,5	27	70	-	50	45	6	10	✓	0,80
DN6H100R00	100	114,5	32	85	-	50	45	6	8	✓	2,10
DN5H100R00 ¹⁾	100	114,5	32	85	-	50	45	6	12	✓	2,10
DN6H125R00	125	139,5	40	85	-	63	45	6	10	✓	3,91
DN5H125R00 ¹⁾	125	139,5	40	85	-	63	45	6	16	✓	3,96
DN6H160R00	160	174,5	40	110	-	63	45	6	12		4,20
DN5H160R00 ¹⁾	160	174,5	40	110	-	63	45	6	20		4,20
DN6H200R00	200	214,6	60	130	101,6	63	45	6	18		7,26
DN5H200R00 ¹⁾	200	214,2	60	130	101,6	63	45	6	26		6,63
DN6H250R00	250	264,6	60	160	101,6	63	45	6	20		13,53

¹⁾ Narrow spacing (only for short chip producing materials) / Pas réduit (pour matières à copeaux courts)

SNGU1205ENN			SNGS1205ANN-W			SNGU1205EFN-P					
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2510	IN2530	IN2540	IN4030	IN6535
SNGU1205ENN	0,20/0,35	positive geometry / Géométrie positive									
SNGS1205ANN-W	fu max. = 6,9	wiper finishing edge / wiper pour la finition									
SNGU1205EFN-P	0,05/0,40	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie									

● = P ● = M ● = K ● = N ● = S ○ = H

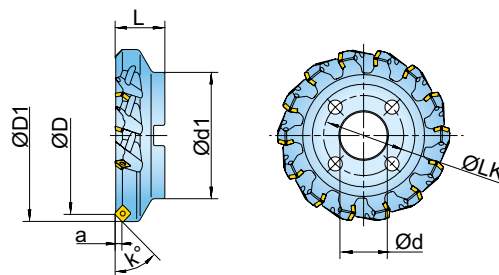
SPARE PARTS
ACCESSOIRES



SM40-100-R0 (4,5Nm) DS-T15S

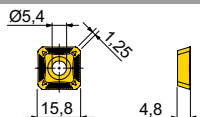
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

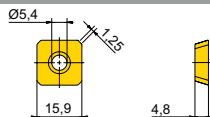


Designation Réf. de l'article	D	D1	d	d1	LK	L	κ	a	Z	IK	kg
5N6R080R00	80	98,1	27	80	-	50	45	9	7	✓	1,52
5N6R100R00	100	118,1	32	90	-	55	45	9	8	✓	2,29
5N6R125R00	125	143,1	40	100	-	65	45	9	10	✓	4,21
5N6R160R00	160	178,1	40	130	66,7	65	45	9	12	✓	7,18
5N6R200R00	200	218,1	60	160	101,6	63	45	9	14		7,23
5N6R250R00	250	268,1	60	220	101,6	63	45	9	16		13,69
5N6R315R00	315	333,1	60	220	101,6	80	45	9	18		27,67

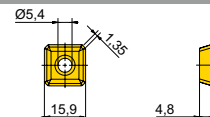
SHET1504AETN-HR



SEHW1504AJTN



SHEH1504AEN-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2035	IN4005	IN4030	IN6535			
SHET1504AETN-HR	0,25/0,35	high positive geometry / Géométrie hautement positive									
SEHW1504AJTN	0,20/0,50	positive geometry / Géométrie positive									
SHEH1504AEN-P	0,05/0,30	positive aluminum geometry / Géométrie positive aluminium									

● = P ● = M ● = K ● = N ● = S ○ = H

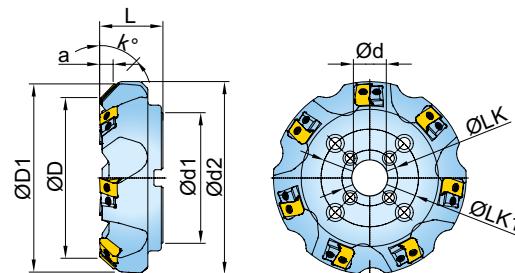
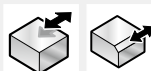
SPARE PARTS
ACCESSOIRES



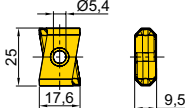
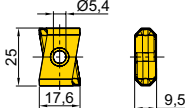
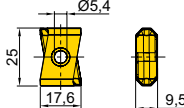
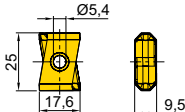
SM50-120-10 (6,0Nm) DS-T20S

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

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	D1	d	d1	d2	LK	LK1	L	κ	a	Z	kg
SN2R125R00	125	151	40	100	157	-	-	63	45	13	6	5,25
SN2R160R00	160	187	40	130	192	66,7	-	63	45	13	7	7,57
SN2R200R00	200	227	60	160	232	101,6	-	63	45	13	9	10,49
SN2R250R00	250	277	60	221	282	101,6	-	63	45	13	11	15,92
SN2R315R00	315	342	60	221	347	101,6	177,8	80	45	13	13	32,13

DPM436R045		DPM436R046		DPM436R101							
											
DPM436R101T12											
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2505	IN2515	IN2530	IN2540				
DPM436R045	0,10/0,80	positive geometry / Géométrie positive									
DPM436R046	0,10/0,80	positive geometry with corner radius / Géométrie positive rayonnée									
DPM436R101	0,10/0,80	roughing geometry / Géométrie d'ébauche									
DPM436R101T12	0,10/0,80	stronger roughing geometry / Géométrie d'ébauche renforcée									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

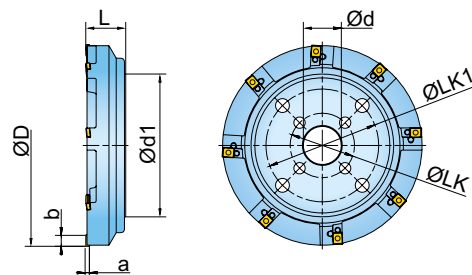


SM50-160-10 (6,0Nm) DS-T20S

PAR0629

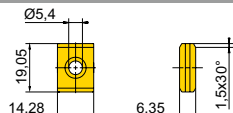
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis ③ = Anvil / Butée

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	d	d1	LK	LK1	L	a	b	Z	kg
7F2K160R00	160	40	130	66,7	-	63	0,5	15	4	5,00
7F2K200R00	200	60	160	101,6	-	63	0,5	15	6	8,00
7F2K250R00	250	60	220	101,6	-	63	0,5	15	6	13,00
7F2K315R00	315	60	220	101,6	177,8	63	0,5	15	8	20,00
7F2K400R00	400	60	220	101,6	177,8	80	0,5	15	12	30,00

YCE434-001



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN0560	IN2010	IN2040				
YCE434-001	fu 1/10	wiper insert / Plaquette racleuse									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



SM50-160-10 (6,0Nm) DS-T20S

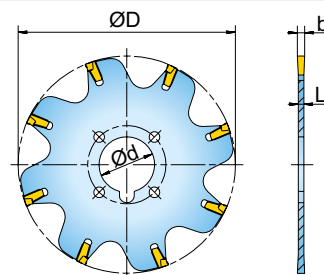
SC050-14

PN072-03

① = Insert screw / Vis de serrage plaque ② = Screw driver / Tournevis ③ = Setting screw / Vis de réglage ④ = Eccentric pin / Pion excentrique

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

ADAPTION ACC. TO DIN 138
ATTACHEMENT DIN 138



Designation Réf. de l'article	D	d	L	b	n max.	Z	Insert-S	kg	Related Insert Plaquelette préconisée
TSC 100 2.4 22K	100	22	1,9	2,4	800	10	2	0,09	ABCD
TSC 100 3 22K	100	22	2,4	3,1	800	6	4	0,10	EFGHIJKLMNOP
TSC 100 4 22K	100	22	3,2	4,1	800	6	4	0,12	EFGHIJKLMNOP
TSC 125 2.4 32K	125	32	1,9	2,4	640	12	2	0,14	ABCD
TSC 125 3 32K	125	32	2,4	3,1	640	8	4	0,15	EFGHIJKLMNOP
TSC 125 4 32K	125	32	3,2	4,1	640	8	4	0,20	EFGHIJKLMNOP
TSC 160 2.4 32K	160	32	1,9	2,4	500	16	2	0,25	ABCD
TSC 160 3 40K	160	40	2,4	3,1	500	10	4	0,27	EFGHIJKLMNOP
TSC 160 4 40K	160	40	3,2	4,1	500	10	4	0,35	EFGHIJKLMNOP

Spigot set has to be ordered separately. / Ensemble d'entraînement non inclus - à commander séparément.

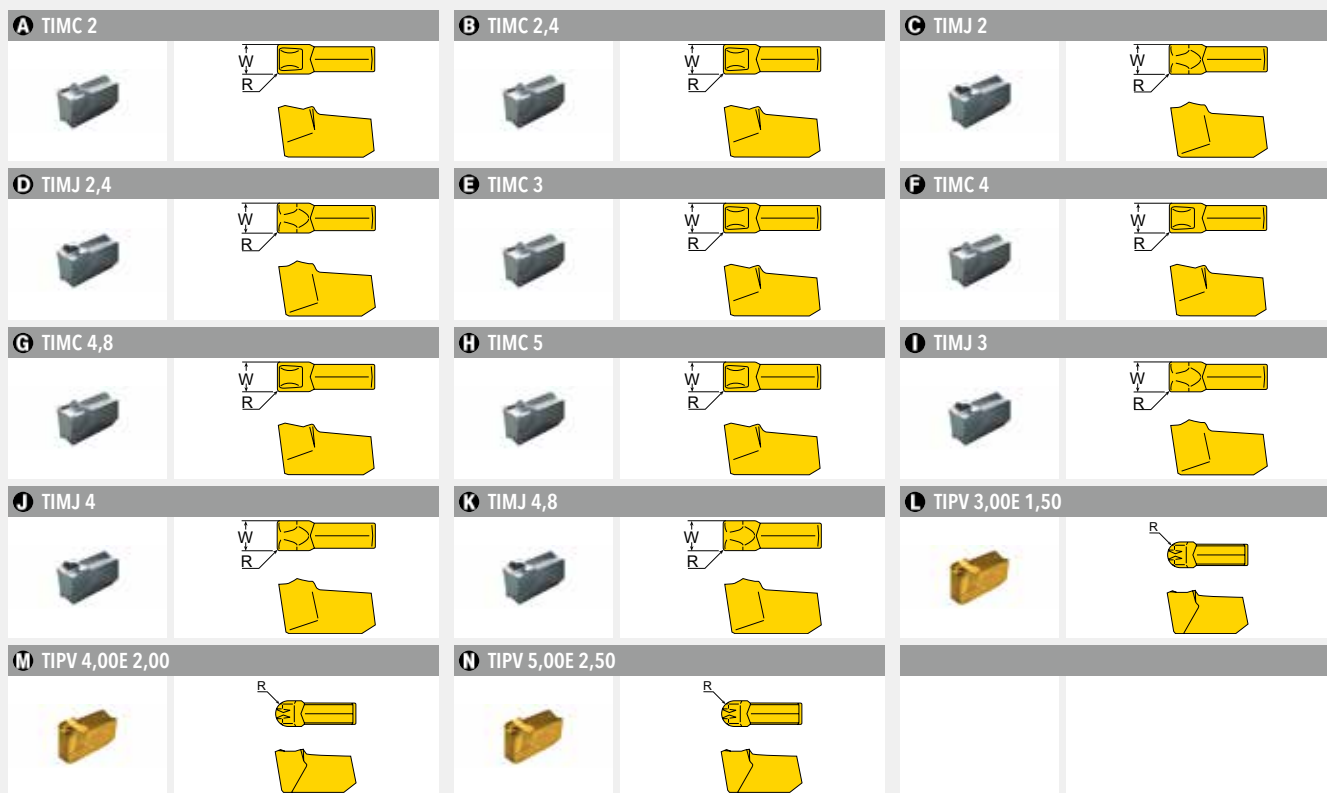
SPARE PARTS
ACCESSOIRES



Cutting Width / Largeurs de coupe

2,4	ESG 0.5
3,1 - 4,1	ESG 1

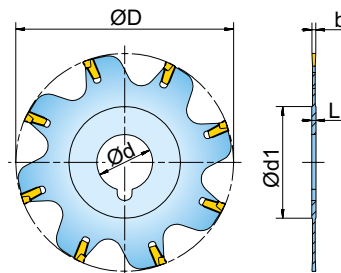
① = Ejector / Extracteur



Designation Réf. de l'article	fz(min/max)	R	W	Grade Nuance	TT9030	TT6030	TT7220	TT5100	TT8020	K10		
TIMC 2	0,05/0,13	0,20	2,2		●	●	●	●	●	●		
TIMC 2,4	0,06/0,15	0,20	2,4		●	●				●		
TIMJ 2	0,04/0,12	0,20	2,2			●			●	●		
TIMJ 2,4	0,05/0,13	0,20	2,4			●			●	●		
TIMC 3	0,06/0,18	0,20	3,1		●	●	●	●	●	●		
TIMC 4	0,08/0,20	0,25	4,1		●	●	●	●	●	●		
TIMC 4,8	0,08/0,20	0,28	4,8			●		●	●	●		
TIMC 5	0,08/0,20	0,30	5,1			●		●	●	●		
TIMJ 3	0,05/0,15	0,20	3,1			●		●	●	●		
TIMJ 4	0,05/0,18	0,25	4,1			●		●	●	●		
TIMJ 4,8	0,05/0,18	0,28	4,8			●		●	●	●		
TIPV 3,00E 1,50	0,06/0,18	3	-			●		●		●		
TIPV 4,00E 2,00	0,08/0,20	4	-			●		●		●		
TIPV 5,00E 2,50	0,08/0,20	5	-			●		●		●		

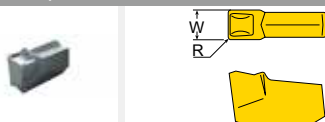
● = P ● = M ● = K ● = N ● = S ○ = H

ADAPTION ACC. TO DIN 138
ATTACHEMENT DIN 138

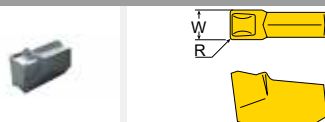


Designation Réf. de l'article	D	d	d1	L	b	n max.	Z	Insert-S	kg	Related Insert Plaquette préconisée
TSC 75 1.6 22A	75	22	39	2,4	1,6	1050	8	1	0,03	A
TSC 75 2 22A	75	22	39	2,4	2,2	1050	8	2	0,04	B C D E
TSC 100 1.6 22A	100	22	39	2,4	1,6	800	10	1	0,06	A
TSC 100 2 22A	100	22	39	2,4	2,2	800	10	2	0,08	B C D E
TSC 125 1.6 27A	125	27	64	2,4	1,6	640	12	1	0,11	A
TSC 125 2 27A	125	27	64	2,4	2,2	640	12	2	0,15	B C D E

A TIMC 1,6



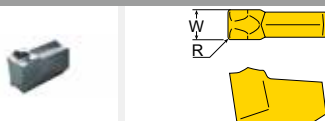
B TIMC 2



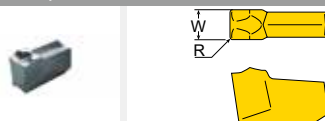
C TIMC 2,4



D TIMJ 2



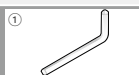
E TIMJ 2,4



Designation Réf. de l'article	fz(min/max)	R	W	Grade Nuance	TT9030	TT6030	TT7220	TT5100	TT8020	K10		
TIMC 1,6	0,04/0,12	0,16	1,6									
TIMC 2	0,05/0,13	0,20	2,2									
TIMC 2,4	0,06/0,15	0,20	2,4									
TIMJ 2	0,04/0,12	0,20	2,2									
TIMJ 2,4	0,05/0,13	0,20	2,4									

● = P ● = M ● = K ● = N ● = S ○ = H

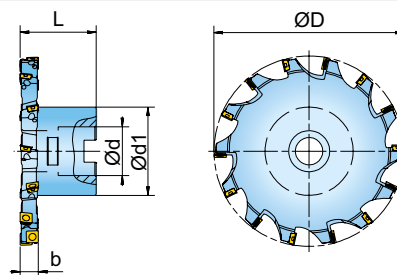
SPARE PARTS
ACCESSOIRES



ESG 0.5

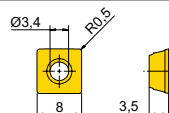
① = Ejector / Extracteur

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

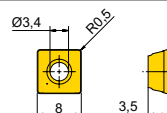


Designation Réf. de l'article	D	d	d1	L	b	Z	Zeff	kg
35J6E063010F0R00	63	16	30	32	10	8	4	0,20
35J6E063012F0R00	63	16	30	32	12	8	4	0,22
35J6E063014F0R00	63	16	30	32	14	8	4	0,24
35J6E080010F1R00	80	22	40	40	10	10	5	0,41
35J6E080012F1R00	80	22	40	40	12	10	5	0,44
35J6E080014F1R00	80	22	40	40	14	10	5	0,48
35J6E100010F2R00	100	27	45	45	10	12	6	0,68
35J6E100012F2R00	100	27	45	45	12	12	6	0,75
35J6E100014F2R00	100	27	45	45	14	12	6	0,80
35J6E125010F3R00	125	32	58	50	10	14	7	1,21
35J6E125012F3R00	125	32	58	50	12	14	7	1,30
35J6E125014F3R00	125	32	58	50	14	14	7	1,40
35J6E160010F4R00	160	40	70	60	10	16	8	2,10
35J6E160012F4R00	160	40	70	60	12	16	8	2,29
35J6E160014F4R00	160	40	70	60	14	16	8	2,52
35J6E200010F4R00	200	40	70	60	10	18	9	2,70
35J6E200012F4R00	200	40	70	60	12	18	9	3,03
35J6E200014F4R00	200	40	70	60	14	18	9	3,35

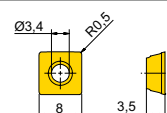
SDMT080305N



SDMW080305TN



SDCT080305FN-P



Designation Réf. de l'article	fz(min/max)	Design Execution	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

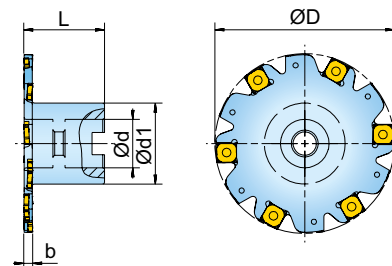
**SPARE PARTS
ACCESSOIRES**



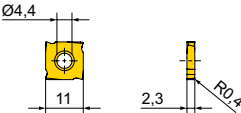
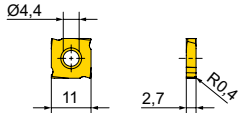
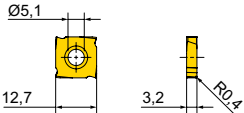
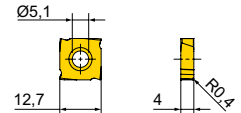
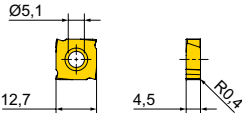
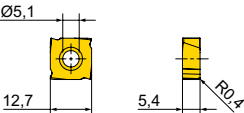
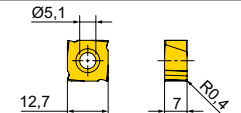
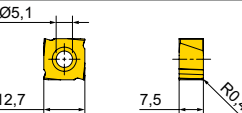
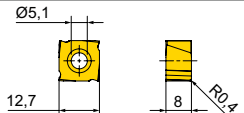
SM30-065-00 (2,0Nm) DS-T09S

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

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	d	d1	L	b	Z	Zeff	kg	Related Insert Plaquette préconisée
38L5G063004F0R00	63	16	30	32	4	8	4	0,17	A
38L5G063005F0R00	63	16	30	32	5	8	4	0,18	B
38L5H063006F0R00	63	16	30	32	6	6	3	0,18	C
38L5H063007F0R00	63	16	30	32/32,5	7/8	6	3	0,20	DE
38L5H063009F0R00	63	16	30	32	9	6	3	0,21	F
38L5H063010F0R00	63	16	30	32	10	6	3	0,22	F
38L5H063012F0R00	63	16	30	32/32,5	12/13	6	3	0,22	GH
38L5H063014F0R00	63	16	30	32/32,5	14/15	6	3	0,24	HI
38L5G080004F1R00	80	22	38	40	4	10	5	0,33	A
38L5G080005F1R00	80	22	38	40	5	10	5	0,35	B
38L5H080006F1R00	80	22	38	40	6	8	4	0,36	C
38L5H080007F1R00	80	22	38	40/40,5	7/8	8	4	0,37	DE
38L5H080009F1R00	80	22	38	40	9	8	4	0,38	F
38L5H080010F1R00	80	22	38	40	10	8	4	0,40	F
38L5H080012F1R00	80	22	38	40/40,5	12/13	8	4	0,42	GH
38L5H080014F1R00	80	22	38	40/40,5	14/15	8	4	0,46	HI
38L5G100004F2R00	100	27	45	45	4	12	6	0,52	A
38L5G100005F2R00	100	27	45	45	5	12	6	0,56	B
38L5H100006F2R00	100	27	45	45	6	10	5	0,57	C
38L5H100007F2R00	100	27	45	45/45,5	7/8	10	5	0,61	DE
38L5H100009F2R00	100	27	45	45	9	10	5	0,62	F
38L5H100010F2R00	100	27	45	45	10	10	5	0,66	F
38L5H100012F2R00	100	27	45	45/45,5	12/13	10	5	0,72	GH
38L5H100014F2R00	100	27	45	45/45,5	14/15	10	5	0,79	HI
38L5G125004F3R00	125	32	58	50	4	14	7	0,99	A
38L5G125005F3R00	125	32	58	50	5	14	7	1,05	B
38L5H125006F3R00	125	32	58	50	6	12	6	1,08	C
38L5H125007F1R00	125	22	38	40/40,5	7/8	12	6	0,64	DE
38L5H125007F3R00	125	32	58	50/50,5	7/8	12	6	1,13	DE
38L5H125009F3R00	125	32	58	50	9	12	6	1,15	F
38L5H125010F3R00	125	32	58	50	10	12	6	1,21	F
38L5H125012F3R00	125	32	58	50/50,5	12/13	12	6	1,30	GH
38L5H125014F3R00	125	32	58	50/50,5	14/15	12	6	1,43	HI
38L5H140007F1R00	140	22	38	40	7/8	12	6	0,89	DE
38L5H160006F4R00	160	40	70	60	6	16	8	1,89	C
38L5H160007F4R00	160	40	70	60/60,5	7/8	16	8	1,99	DE
38L5H160009F4R00	160	40	70	60	9	16	8	2,01	F
38L5H160010F4R00	160	40	70	60	10	16	8	2,12	F
38L5H160012F4R00	160	40	70	60/60,5	12/13	16	8	2,30	GH
38L5H160014F4R00	160	40	70	60/60,5	14/15	16	8	2,50	HI

A SDE-31-201 - J			B SDE-31-202 - J			C SDE-42-201 - J						
												
D SDE-42-203 - J			E SDE-42-202 - J			F SDE-43-201 - J						
												
G SDE-44-201 - J			H SDE-44-202 - J			I SDE-45-201 - J						
												
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN4030								
SDE-31-201 - J	0,15/0,20	positive geometry / Géométrie positive										
SDE-31-202 - J	0,15/0,20	positive geometry / Géométrie positive										
SDE-42-201 - J	0,15/0,20	positive geometry / Géométrie positive										
SDE-42-203 - J	0,15/0,20	positive geometry / Géométrie positive										
SDE-42-202 - J	0,15/0,20	positive geometry / Géométrie positive										
SDE-43-201 - J	0,15/0,20	positive geometry / Géométrie positive										
SDE-44-201 - J	0,15/0,20	positive geometry / Géométrie positive										
SDE-44-202 - J	0,15/0,20	positive geometry / Géométrie positive										
SDE-45-201 - J	0,15/0,20	positive geometry / Géométrie positive										

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES

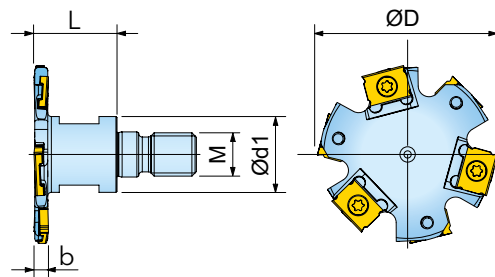


Cutting Width / Largeurs de coupe

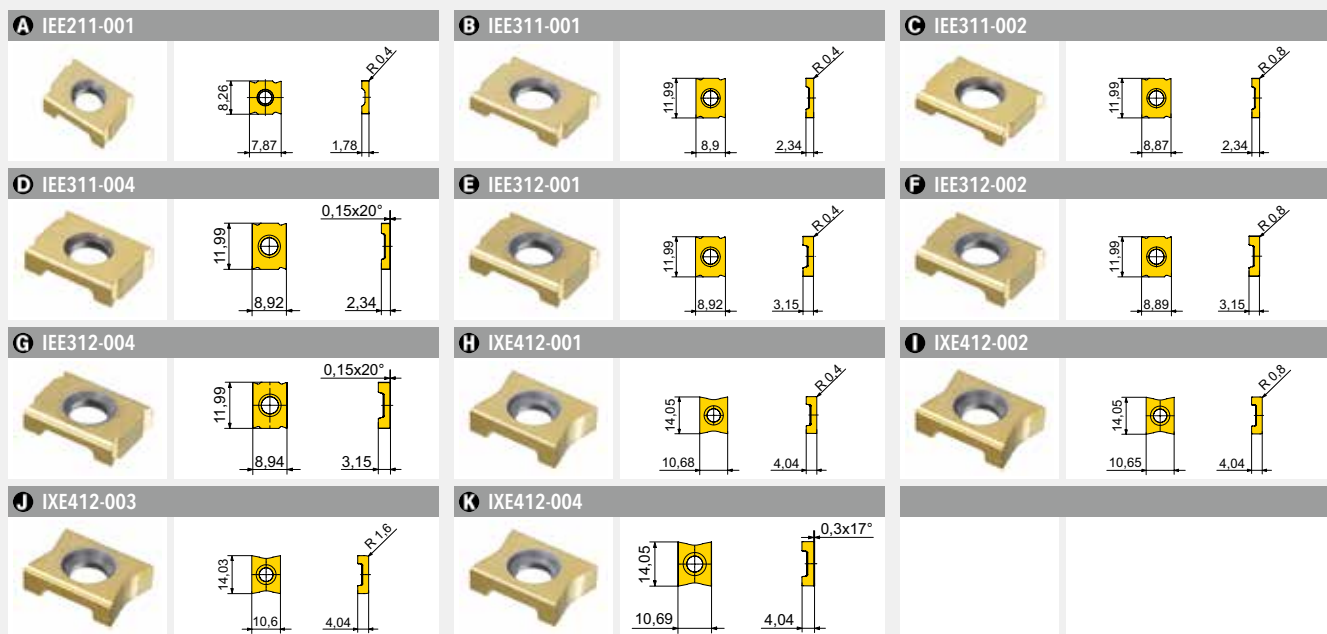
4	SM35-034-50 (1,4Nm) DS-T09S
5	SM35-042-50 (1,4Nm) DS-T09S
6	SM40-050-50 (4,5Nm) DS-T15S
7/8	SM40-060-50 (4,5Nm) DS-T15S
9 - 10	SM40-080-50 (4,5Nm) DS-T15S
12/13 - 14/15	SM40-106-50 (4,5Nm) DS-T15S

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

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	d1	L	b	M	Z	Zeff	kg	Related Insert Plaquette préconisée
3VJ5V050003X7R00	50	21	23	3	12	6	3	0,10	A
3VJ5V050004X7R00	50	21	23	4	12	6	3	0,10	B C D
3VJ5V050005X7R00	50	21	23	5	12	6	3	0,12	E F G
3VJ5V050006X7R00	50	21	23	6	12	4	2	0,13	H I J K



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN250S	IN251S	IN2530	IN4035			
IEE211-001	0,05/0,12	positive geometry R0,4 / Géométrie positive R0,4		●	●		●	●			
IEE311-001	0,05/0,12	positive geometry R0,4 / Géométrie positive R0,4		●	●	●	●	●			
IEE311-002	0,05/0,15	positive geometry R0,8 / Géométrie positive R0,8		●	●	●	●	●			
IEE311-004	0,05/0,15	positive geometry 0,15x20° / Géométrie positive 0,15x20°			●		●				
IEE312-001	0,05/0,17	positive geometry R0,4 / Géométrie positive R0,4		●	●	●	●	●			
IEE312-002	0,05/0,17	positive geometry R0,8 / Géométrie positive R0,8		●	●	●	●	●			
IEE312-004	0,05/0,17	positive geometry 0,15x20° / Géométrie positive 0,15x20°			●		●				
IXE412-001	0,05/0,20	positive geometry R0,4 / Géométrie positive R0,4		●	●	●	●	●			
IXE412-002	0,05/0,20	positive geometry R0,8 / Géométrie positive R0,8		●	●	●	●	●			
IXE412-003	0,05/0,20	positive geometry R1,6 / Géométrie positive R1,6			●		●				
IXE412-004	0,05/0,20	positive geometry 0,3x17° / Géométrie positive 0,3x17°			●		●				

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES

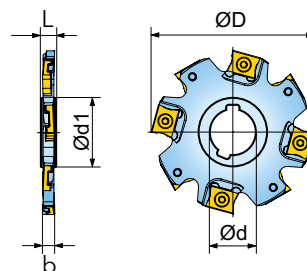


Cutting Width / Largeurs de coupe

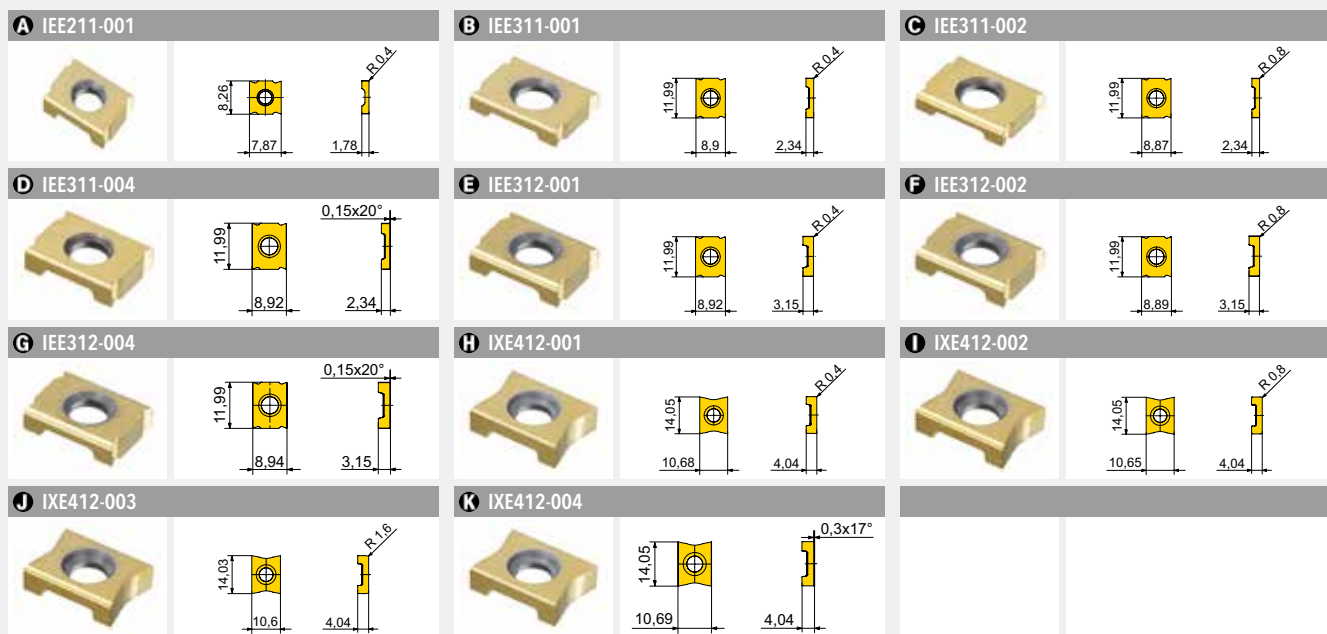
3	SM25-024-80 (0,7Nm) DS-T06F
4	SM35-034-50 (1,4Nm) DS-T09S
5	SM35-042-50 (1,4Nm) DS-T09S
6	SM40-050-50 (4,5Nm) DS-T15S

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

ADAPTION ACC. TO DIN 138
 ATTACHEMENT DIN 138



Designation Réf. de l'article	D	d	d1	L	b	Z	Z _{eff}	kg	Related Insert Plaquette préconisée
3VJ5V063003BA-00	63	22	34	8	3	8	4	0,07	A
3VJ5V063004BA-00	63	22	34	8	4	8	4	0,08	B C D
3VJ5V063005BA-00	63	22	34	8	5	8	4	0,09	E F G
3VJ5V063006BA-00	63	22	34	8	6	6	3	0,10	H I J K
3VJ5V080003BA-00	80	22	34	8	3	10	5	0,10	A
3VJ5V080004BA-00	80	22	34	8	4	10	5	0,13	B C D
3VJ5V080005BA-00	80	22	34	8	5	10	5	0,15	E F G
3VJ5V080006BA-00	80	22	34	8	6	8	4	0,17	H I J K
3VJ5V100003BB-00	100	27	41	12	3	14	7	0,18	A
3VJ5V100004BB-00	100	27	41	12	4	12	6	0,23	B C D
3VJ5V100005BB-00	100	27	41	12	5	12	6	0,26	E F G
3VJ5V100006BB-00	100	27	41	12	6	10	5	0,29	H I J K
3VJ5V125004BD-00	125	40	55	12	4	14	7	0,35	B C D
3VJ5V125005BD-00	125	40	55	12	5	14	7	0,10	E F G
3VJ5V125006BD-00	125	40	55	12	6	12	6	0,45	H I J K
3VJ5V160004BD-00	160	40	55	12	4	18	9	0,56	B C D
3VJ5V160005BD-00	160	40	55	12	5	18	9	0,63	E F G
3VJ5V160006BD-00	160	40	55	12	6	16	8	0,76	H I J K
3VJ5V200006BE-00	200	50	69	12	6	18	9	1,20	H I J K



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN250S	IN251S	IN2530	IN4035			
IEE211-001	0,05/0,12	positive geometry R0,4 / Géométrie positive R0,4		●	●		●	●			
IEE311-001	0,05/0,12	positive geometry R0,4 / Géométrie positive R0,4		●	●	●	●	●			
IEE311-002	0,05/0,15	positive geometry R0,8 / Géométrie positive R0,8		●	●	●	●	●			
IEE311-004	0,05/0,15	positive geometry 0,15x20° / Géométrie positive 0,15x20°			●		●				
IEE312-001	0,05/0,17	positive geometry R0,4 / Géométrie positive R0,4		●	●	●	●	●			
IEE312-002	0,05/0,17	positive geometry R0,8 / Géométrie positive R0,8		●	●	●	●	●			
IEE312-004	0,05/0,17	positive geometry 0,15x20° / Géométrie positive 0,15x20°			●		●				
IXE412-001	0,05/0,20	positive geometry R0,4 / Géométrie positive R0,4		●	●	●	●	●			
IXE412-002	0,05/0,20	positive geometry R0,8 / Géométrie positive R0,8		●	●	●	●	●			
IXE412-003	0,05/0,20	positive geometry R1,6 / Géométrie positive R1,6			●		●				
IXE412-004	0,05/0,20	positive geometry 0,3x17° / Géométrie positive 0,3x17°			●		●				

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES

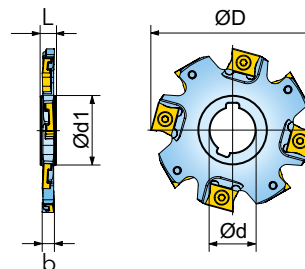


Cutting Width / Largeurs de coupe

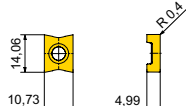
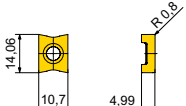
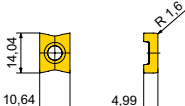
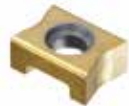
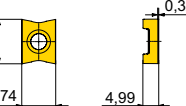
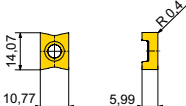
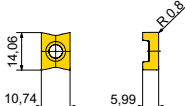
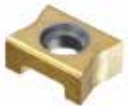
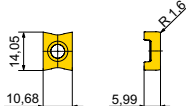
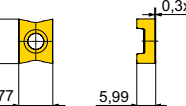
3	SM25-024-80 (0,7Nm) DS-T06F
4	SM35-034-50 (1,4Nm) DS-T09S
5	SM35-042-50 (1,4Nm) DS-T09S
6	SM40-050-50 (4,5Nm) DS-T15S

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

ADAPTION ACC. TO DIN 138
 ATTACHEMENT DIN 138



Designation Réf. de l'article	D	d	d1	L	b	Z	Z _{eff}	kg	Related Insert Plaquette préconisée
3VJ5V063007BA-00	63	22	34	12	7	6	3	0,13	A B C D
3VJ5V063008BA-00	63	22	34	12	8	6	3	0,14	A B C D
3VJ5V063009BA-00	63	22	34	12	9	6	3	0,15	E F G H
3VJ5V063010BA-00	63	22	34	12	10	6	3	0,17	E F G H
3VJ5V080007BA-00	80	22	34	12	7	8	4	0,21	A B C D
3VJ5V080008BA-00	80	22	34	12	8	8	4	0,24	A B C D
3VJ5V080009BA-00	80	22	34	12	9	8	4	0,26	E F G H
3VJ5V080010BA-00	80	22	34	12	10	8	4	0,29	E F G H
3VJ5V100007BB-00	100	27	41	12	7	10	5	0,33	A B C D
3VJ5V100008BB-00	100	27	41	12	8	10	5	0,37	A B C D
3VJ5V100009BB-00	100	27	41	12	9	10	5	0,40	E F G H
3VJ5V100010BB-00	100	27	41	12	10	10	5	0,44	E F G H
3VJ5V125007BD-00	125	40	55	12	7	12	6	0,51	A B C D
3VJ5V125008BD-00	125	40	55	12	8	12	6	0,57	A B C D
3VJ5V125009BD-00	125	40	55	12	9	12	6	0,61	E F G H
3VJ5V125010BD-00	125	40	55	12	10	12	6	0,68	E F G H
3VJ5V160007BD-00	160	40	55	12	7	16	8	0,86	A B C D
3VJ5V160008BD-00	160	40	55	12	8	16	8	0,98	A B C D
3VJ5V160009BD-00	160	40	55	12	9	16	8	1,05	E F G H
3VJ5V160010BD-00	160	40	55	12	10	16	8	1,17	E F G H
3VJ5V200007BE-00	200	50	69	12	7	18	9	1,35	A B C D
3VJ5V200008BE-00	200	50	69	12	8	18	9	1,55	A B C D
3VJ5V200009BE-00	200	50	69	12	9	18	9	1,66	E F G H
3VJ5V200010BE-00	200	50	69	12	10	18	9	1,85	E F G H

A IXE413-001			B IXE413-002			C IXE413-003					
											
											
D IXE413-004			E IXE414-001			F IXE414-002					
											
											
G IXE414-003			H IXE414-004								
											
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN250S	IN251S	IN2530	IN403S			
IXE413-001	0,05/0,20	positive geometry R0,4 / Géométrie positive R0,4									
IXE413-002	0,05/0,20	positive geometry R0,8 / Géométrie positive R0,8									
IXE413-003	0,05/0,20	positive geometry R1,6 / Géométrie positive R1,6									
IXE413-004	0,05/0,20	positive geometry 0,3x17° / Géométrie positive 0,3x17°									
IXE414-001	0,05/0,25	positive geometry R0,4 / Géométrie positive R0,4									
IXE414-002	0,05/0,25	positive geometry R0,8 / Géométrie positive R0,8									
IXE414-003	0,05/0,25	positive geometry R1,6 / Géométrie positive R1,6									
IXE414-004	0,05/0,25	positive geometry 0,3x17° / Géométrie positive 0,3x17°									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES

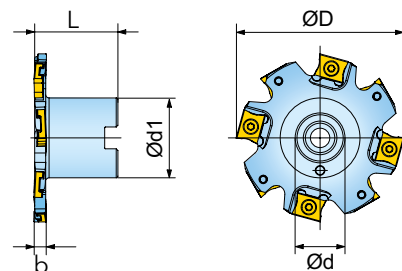


Cutting Width / Largeurs de coupe

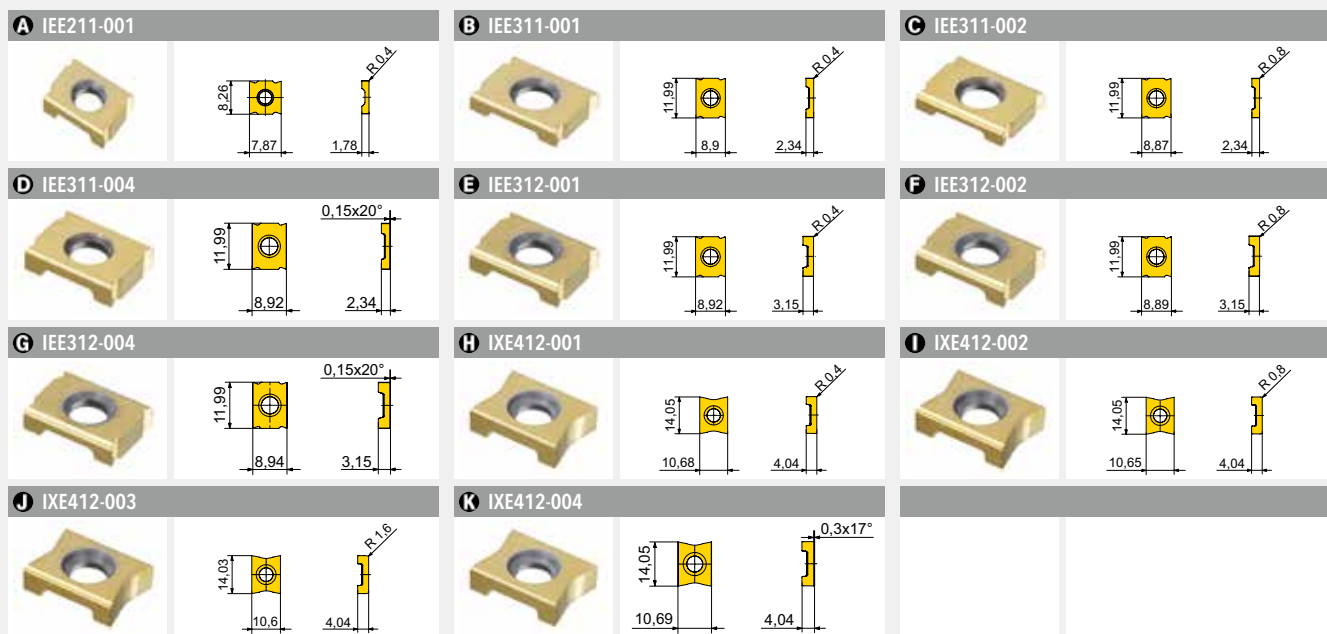
7	SM40-060-50 (4,5Nm) DS-T15S
8	SM40-070-50 (4,5Nm) DS-T15S
9 - 10	SM40-080-50 (4,5Nm) DS-T15S

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

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	d	d1	L	b	Z	Z _{eff}	kg	Related Insert Plaquette préconisée
3VJ5V063003F0R00	63	16	30	32	3	8	4	0,16	A
3VJ5V063004F0R00	63	16	30	32	4	8	4	0,19	B C D
3VJ5V063005F0R00	63	16	30	32	5	8	4	0,21	E F G
3VJ5V063006F0R00	63	16	30	32	6	6	3	0,22	H I J K
3VJ5V080003F1R00	80	22	38	40	3	10	5	0,32	A
3VJ5V080004F1R00	80	22	38	40	4	10	5	0,36	B C D
3VJ5V080005F1R00	80	22	38	40	5	10	5	0,38	E F G
3VJ5V080006F1R00	80	22	38	40	6	8	4	0,40	H I J K
3VJ5V100003F2R00	100	27	45	45	3	14	7	0,52	A
3VJ5V100004F2R00	100	27	45	45	4	14	7	0,56	B C D
3VJ5V100005F2R00	100	27	45	45	5	12	6	0,60	E F G
3VJ5V100006F2R00	100	27	45	45	6	10	5	0,62	H I J K
3VJ5V125004F3R00	125	32	58	50	4	14	7	1,04	B C D
3VJ5V125005F3R00	125	32	58	50	5	14	7	1,10	E F G
3VJ5V125006F3R00	125	32	58	50	6	12	6	1,14	H I J K
3VJ5V160004F4R00	160	40	70	60	4	18	9	1,83	B C D
3VJ5V160005F4R00	160	40	70	60	5	18	9	1,93	E F G
3VJ5V160006F4R00	160	40	70	60	6	16	8	2,00	H I J K



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN250S	IN251S	IN2530	IN403S			
IEE211-001	0,05/0,12	positive geometry R0,4 / Géométrie positive R0,4		●	●		●	●			
IEE311-001	0,05/0,12	positive geometry R0,4 / Géométrie positive R0,4		●	●	●	●	●			
IEE311-002	0,05/0,15	positive geometry R0,8 / Géométrie positive R0,8		●	●	●	●	●			
IEE311-004	0,05/0,15	positive geometry 0,15x20° / Géométrie positive 0,15x20°			●		●				
IEE312-001	0,05/0,17	positive geometry R0,4 / Géométrie positive R0,4		●	●	●	●	●			
IEE312-002	0,05/0,17	positive geometry R0,8 / Géométrie positive R0,8		●	●	●	●	●			
IEE312-004	0,05/0,17	positive geometry 0,15x20° / Géométrie positive 0,15x20°			●		●				
IXE412-001	0,05/0,20	positive geometry R0,4 / Géométrie positive R0,4		●	●	●	●	●			
IXE412-002	0,05/0,20	positive geometry R0,8 / Géométrie positive R0,8		●	●	●	●	●			
IXE412-003	0,05/0,20	positive geometry R1,6 / Géométrie positive R1,6			●		●				
IXE412-004	0,05/0,20	positive geometry 0,3x17° / Géométrie positive 0,3x17°			●		●				

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES

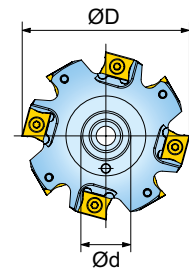
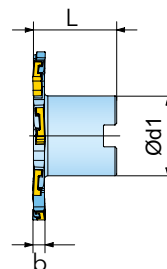


Cutting Width / Largeurs de coupe

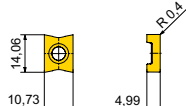
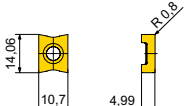
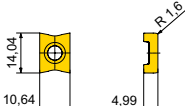
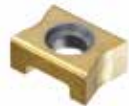
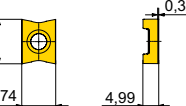
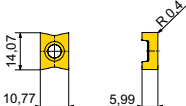
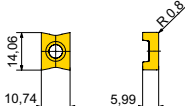
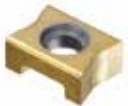
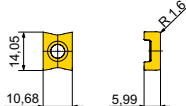
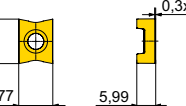
3	SM25-024-80 (0,7Nm) DS-T06F
4	SM35-034-50 (1,4Nm) DS-T09S
5	SM35-042-50 (1,4Nm) DS-T09S
6	SM40-050-50 (4,5Nm) DS-T15S

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

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	d	d1	L	b	Z	Z _{eff}	kg	Related Insert Plaquette préconisée
3VJ5V063007F0R00	63	16	30	32	7	6	3	0,23	A B C D
3VJ5V063008F0R00	63	16	30	32	8	6	3	0,24	A B C D
3VJ5V063009F0R00	63	16	30	32	9	6	3	0,26	E F G H
3VJ5V063010F0R00	63	16	30	32	10	6	3	0,27	E F G H
3VJ5V080007F1R00	80	22	38	40	7	8	4	0,42	A B C D
3VJ5V080008F1R00	80	22	38	40	8	8	4	0,45	A B C D
3VJ5V080009F1R00	80	22	38	40	9	8	4	0,48	E F G H
3VJ5V080010F1R00	80	22	38	40	10	8	4	0,50	E F G H
3VJ5V100007F2R00	100	27	45	45	7	10	5	0,66	A B C D
3VJ5V100008F2R00	100	27	45	45	8	10	5	0,70	A B C D
3VJ5V100009F2R00	100	27	45	45	9	10	5	0,72	E F G H
3VJ5V100010F2R00	100	27	45	45	10	10	5	0,76	E F G H
3VJ5V125007F3R00	125	32	58	50	7	12	6	1,20	A B C D
3VJ5V125008F3R00	125	32	58	50	8	12	6	1,26	A B C D
3VJ5V125009F3R00	125	32	58	50	9	12	6	1,29	E F G H
3VJ5V125010F3R00	125	32	58	50	10	12	6	1,35	E F G H
3VJ5V160007F4R00	160	40	70	60	7	16	8	2,10	A B C D
3VJ5V160008F4R00	160	40	70	60	8	16	8	2,21	A B C D
3VJ5V160009F4R00	160	40	70	60	9	16	8	2,27	E F G H
3VJ5V160010F4R00	160	40	70	60	10	16	8	2,38	E F G H

A IXE413-001			B IXE413-002			C IXE413-003					
											
											
D IXE413-004			E IXE414-001			F IXE414-002					
											
											
G IXE414-003			H IXE414-004								
											
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2505	IN2515	IN2530	IN4035			
IXE413-001	0,05/0,20	positive geometry R0,4 / Géométrie positive R0,4									
IXE413-002	0,05/0,20	positive geometry R0,8 / Géométrie positive R0,8									
IXE413-003	0,05/0,20	positive geometry R1,6 / Géométrie positive R1,6									
IXE413-004	0,05/0,20	positive geometry 0,3x17° / Géométrie positive 0,3x17°									
IXE414-001	0,05/0,25	positive geometry R0,4 / Géométrie positive R0,4									
IXE414-002	0,05/0,25	positive geometry R0,8 / Géométrie positive R0,8									
IXE414-003	0,05/0,25	positive geometry R1,6 / Géométrie positive R1,6									
IXE414-004	0,05/0,25	positive geometry 0,3x17° / Géométrie positive 0,3x17°									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES

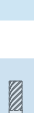
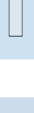


Cutting Width / Largeurs de coupe

7	SM40-060-50 (4,5Nm) DS-T15S
8	SM40-070-50 (4,5Nm) DS-T15S
9 - 10	SM40-080-50 (4,5Nm) DS-T15S

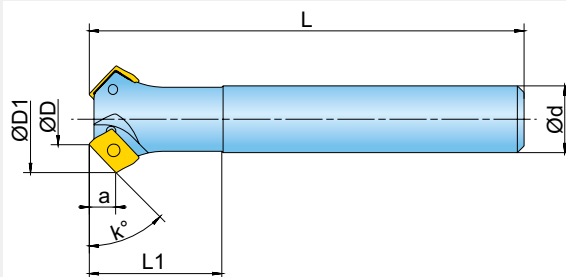
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

FORM MILLS / FRAISES DE FORME

	D	a	Description	Code / Série	Page
		8	2,7 - 4,8 HIPOPOS™ Chamfer Mill 12_1D...T Fraise à chanfreiner 12_1D...T	12_1D...T	132
		20	2,9 - 11,6 HIPOPOS™ Chamfer Mill 12_1R...W Fraise à chanfreiner 12_1R...W	12_1R...W	133
		35	9,0 - 33,9 HIPOPOS™ Chamfer Mill 22_3R...F Fraise à chanfreiner 22_3R...F	22_3R...F	134
		45	6,4 - 24,4 ROUGHAIR™ Finishing Chamfer Mill 15_1H...F Fraise à chanfreiner de finition 15_1H...F	15_1H...F	135
		10,6	3,2 HIPOPOSQUAD™ Chamfer Mill 15N1D...T Fraise à chanfreiner 15N1D...T	15N1D...T	136
		6 - 16	3,5 - 5,1 HIPOPOSQUAD™ Chamfer Mill 15_1E...W Fraise à chanfreiner 15_1E...W	15_1E...W	137
		20	5 HIPOPOSQUAD™ Chamfer Mill 15N1E...X Fraise à chanfreiner 15N1E...X	15N1E...X	138
		25	1 - 6 FASTBREAK™ End Mill 15R...W Fraise en bout 15R...W	15R...W	139
		25	1 - 6 FASTBREAK™ End Mill 15R...X Fraise en bout 15R...X	15R...X	140
		25 - 50	11 - 21 HIPOPOSQUAD™ T-Slot Mill 15T1E...W Fraise à rainurer en T 15T1E...W	T 15T1E...W	141
		25 - 50	11 - 21 HIPOPOSQUAD™ T-Slot Mill 15T1E...Z Fraise à rainurer en T 15T1E...Z	T 15T1E...Z	142

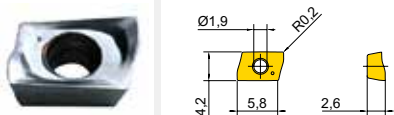
Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

ADAPTION ACC. TO DIN 1835 A
ATTACHEMENT DIN 1835 A

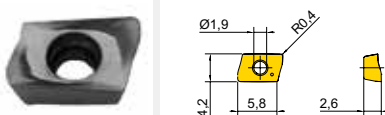


Designation Réf. de l'article	D	D1	d	L	L1	κ	a	Z	kg
12P1D008025T1R00	8	17,7	10	65	20	30	2,7	2	0,04
12N1D008025T1R00	8	16,0	10	65	20	45	3,9	2	0,04
12M1D008025T1R00	8	13,7	10	65	20	60	4,8	2	0,04

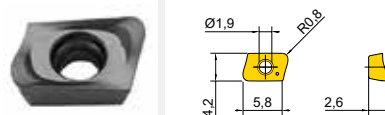
AOMT060202R



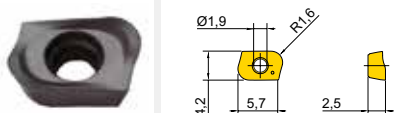
AOMT060204R



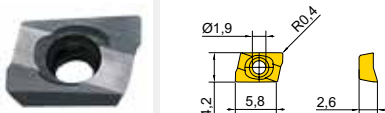
AOMT060208R



AOMT060216R



AOCT060204FR-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2035	IN2505	IN2530	IN6535			
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

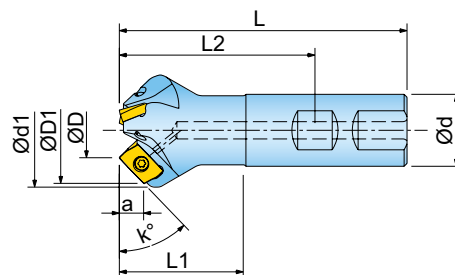
SPARE PARTS
ACCESSOIRES



SM18-041-00 (0,5Nm) DS-TP06S (TX-Plus)

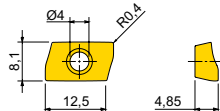
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

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

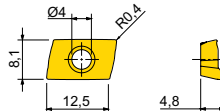


Designation Réf. de l'article	D	D1	d	d2	L	L1	L2	κ	a	Z	IK	kg
12Q1R020044W5R00	20	42,1	25	43,2	100	44	68	15	2,9	3	✓	0,38
12P1R020044W5R00	20	40,4	25	40,7	100	44	68	30	5,9	3	✓	0,35
12N1R020044W5R00	20	36,9	25	39,5	100	44	68	45	8,4	3	✓	0,36
12M1R020044W5R00	20	31,9	25	32,2	100	44	68	60	10,3	3	✓	0,33
12L1R020044W5R00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

BOMT130404R



BOCT130404FR-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2530	IN4030	IN6535		
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									

● = P ● = M ● = K ● = N ● = S ○ = H

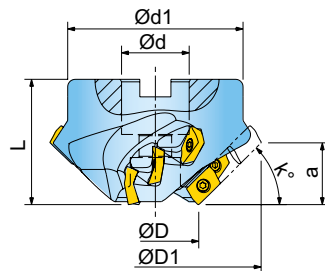
SPARE PARTS
ACCESSOIRES



SM35-088-10 (3,0Nm) DS-T10S

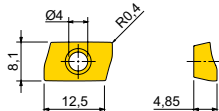
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

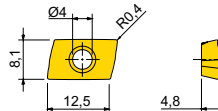


Designation Réf. de l'article	D	D1	d	d1	L	κ	a	Z	Z _{eff}	kg
22Q3R035050F2R00	35	102,5	27	70	50	15	9,0	9	3	1,37
22P3R035050F2R00	35	95,5	27	70	50	30	17,4	9	3	1,14
22N3R035050F2R00	35	84,5	27	70	50	45	24,6	9	3	0,87
22M3R035050F2R00	35	70,0	27	70	50	60	30,3	9	3	0,66
22L3R035050F1R00	35	53,2	22	45	50	75	33,9	9	3	0,30

BOMT130404R



BOCT130404FR-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2035	IN2505	IN2530	IN4030	IN6535	
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								

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

①



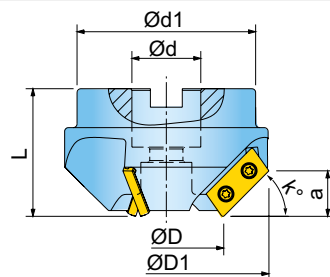
②



SM35-088-10 (3,0Nm) DS-T10S

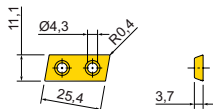
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
 ATTACHEMENT DIN 8030

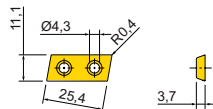


Designation Réf. de l'article	D	D1	d	d1	L	κ	a	Z	IK	kg
15Q1H045050F2R00	45	93,4	27	70	50	15	6,4	3	✓	1,63
15P1H045050F2R00	45	88,5	27	70	50	30	12,4	3	✓	1,38
15N1H045050F2R00	45	80,7	27	70	50	45	17,8	3	✓	1,05
15M1H045050F2R00	45	70,3	27	70	50	60	21,8	3	✓	0,82
15L1H045050F1R00	45	58,1	22	45	50	75	24,4	3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

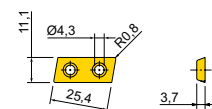
BEHW250304R



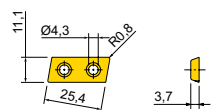
BEHW250304R-P



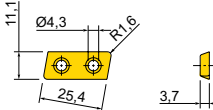
BEHW250308R



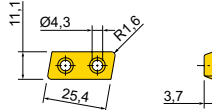
BEHW250308R-P



BEHW250316R



BEHW250316R-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN15K	IN2540						
BEHW250304R	0,08/0,20	neutral geometry R0,4 / Géométrie neutre R0,4			●						
BEHW250304R-P	0,05/0,20	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4	●								
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	●								
BEHW250316R	0,08/0,20	neutral geometry R1,6 / Géométrie neutre R0,8			●						
BEHW250316R-P	0,05/0,20	non-ferrous geometry, polished R1,6 / Géo. pour mat. non fer., polie R1,6	●								

● = P ● = M ● = K ● = N ● = S ○ = H

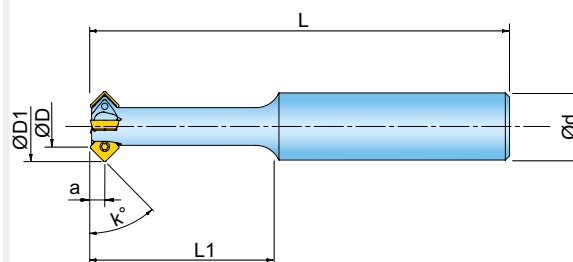
**SPARE PARTS
ACCESSOIRES**



SM35-089-00 (3,0Nm) DS-T15S

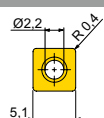
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 1835 A
ATTACHEMENT DIN 1835 A



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

SDMT050204N



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2505							
SDMT050204N	0,06/0,12	positive geometry R0,4 / Géométrie positive R0,4									

● = P ● = M ● = K ● = N ● = S ○ = H

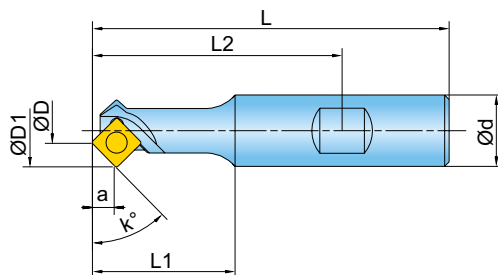
SPARE PARTS
ACCESSOIRES



DS-TP06S (TX-Plus) SM20-043-00 (0,7Nm)

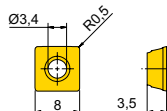
① = Screw driver / Tournevis ② = Insert screw / Vis de serrage plaquette

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

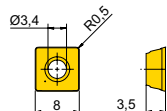


Designation Réf. de l'article	D	D1	d	L	L1	L2	κ	a	Z	kg
15P1E006032W3R00	6	18,6	16	80	32	56	30	3,5	1	0,09
15N1E006032W3R00	6	16,3	16	80	32	56	45	5,1	1	0,09
15M1E006032W3R00	6	13,1	16	80	32	56	60	6,2	1	0,09
15N1E016035W4R00	16	26,4	20	85	35	60	45	5,1	2	0,19

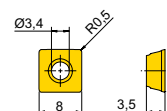
SDMT080305N



SDMW080305TN



SDCT080305FN-P



Designation Réf. de l'article	fz(min/max)	Design Execution	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

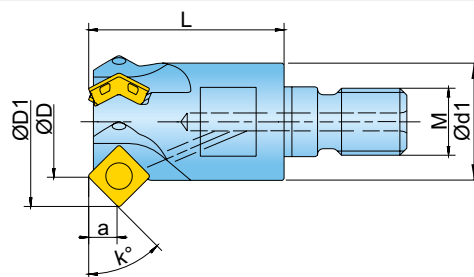
SPARE PARTS ACCESSOIRES



SM30-065-00 (2,0Nm) DS-T09S

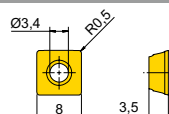
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

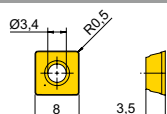


Designation Réf. de l'article	D	D1	d1	L	κ	a	M	Z	IK	kg
15N1E020035X7R00	20	30,4	21	35	45	5	12	3	✓	0,09

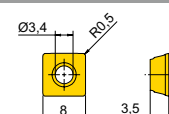
SDMT080305N



SDMW080305TN



SDCT080305FN-P



Designation Réf. de l'article	fz(min/max)	Design Execution	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

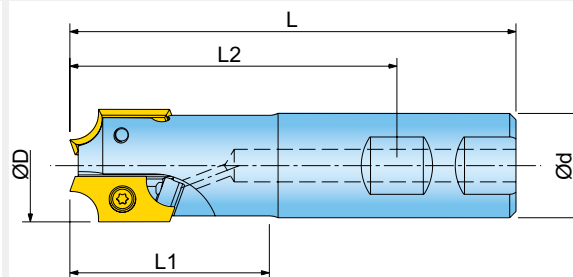
SPARE PARTS
ACCESSOIRES



SM30-065-00 (2,0Nm) DS-T09S

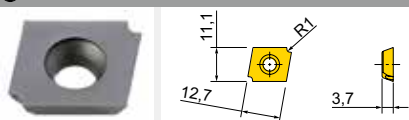
① = Insert screw / Vis de serrage plaque ② = Screw driver / Tournevis

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

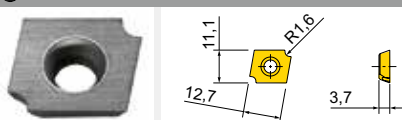


Designation Réf. de l'article	D	d	L	L1	L2	Z	Insert	IK	kg	Related Insert Plaquette préconisée
15R1V025040W5R00	25	25	100	40	68	2	BEEW	✓	0,28	A B C D E
15R4H025040W5R00	25	25	100	40	68	2	FEW	✓	0,34	F G H

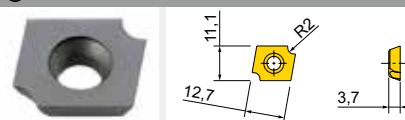
A BEEW120310R-CR



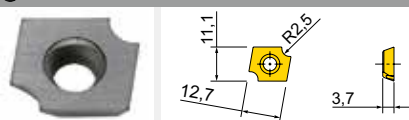
B BEEW120316R-CR



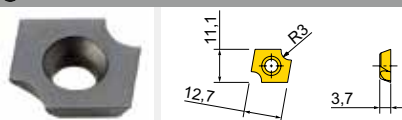
C BEEW120320R-CR



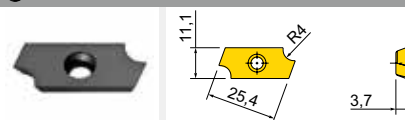
D BEEW120325R-CR



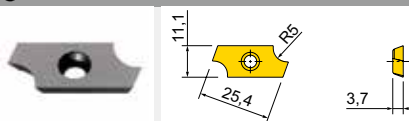
E BEEW120330R-CR



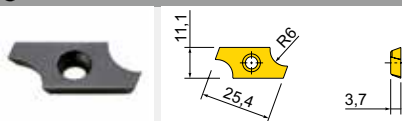
F FEW250340R-CR



G FEW250350R-CR



H FEW250360R-CR



Designation Réf. de l'article	fz(min/max)	Design Execution	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												
FEW250340R-CR	0,08/0,20	neutral geometry R4,0 / Géométrie neutre R4,0												
FEW250350R-CR	0,08/0,20	neutral geometry R5,0 / Géométrie neutre R5,0												
FEW250360R-CR	0,08/0,20	neutral geometry R6,0 / Géométrie neutre R6,0												

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

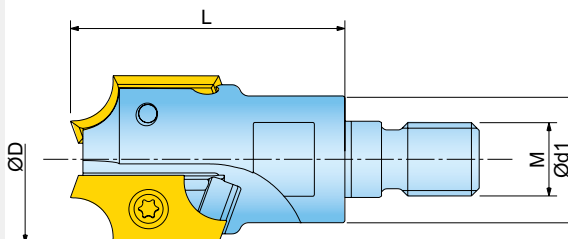


Insert Type / Plaquette

BEEW	SM35-070-00 (3,0Nm) DS-T15S
FEW	SM40-093-20 (4,5Nm) DS-T15S

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

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	d1	L	M	Z	Insert	IK	kg	Related Insert Plaquette préconisée
15R1V025035X7R00	25	21	35	12	2	BEEW	✓	0,10	A B C D E
15R4H025043X7R00	25	21	43	12	2	FEEW	✓	0,11	F G H

A BEEW120310R-CR 	B BEEW120316R-CR 	C BEEW120320R-CR
D BEEW120325R-CR 	E BEEW120330R-CR 	F FEEW250340R-CR
G FEEW250350R-CR 	H FEEW250360R-CR 	

Designation Réf. de l'article	fz(min/max)	Design Execution	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

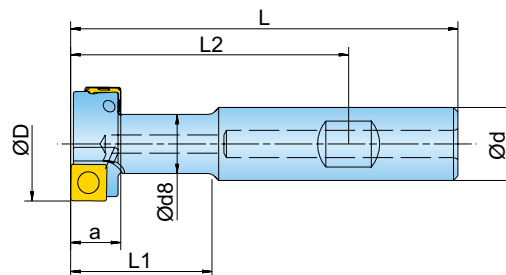


Insert Type / Plaquette

BEEW	SM35-070-00 (3,0Nm) DS-T15S
FEEW	SM40-093-20 (4,5Nm) DS-T15S

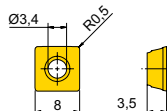
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

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

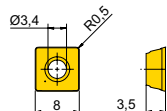


Designation Réf. de l'article	D	d	d8	L	L1	L2	a	Z	Zeff	IK	kg
15T1E025011W3R00	25	16	13	85	31	61	11	2	1	✓	0,11
15T1E032014W4R00	32	20	17	100	39	75	14	4	2	✓	0,21
15T1E040017W5R00	40	25	21	110	50	78	17	6	2	✓	0,38
15T1E050021W6R00	50	32	27	125	60	89	21	6	2	✓	0,72

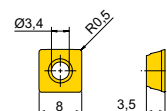
SDMT080305N



SDMW080305TN



SDCT080305FN-P



Designation Réf. de l'article	fz(min/max)	Design Execution	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

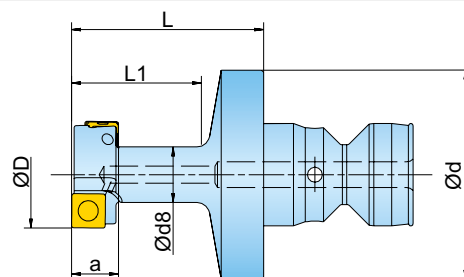
SPARE PARTS ACCESSOIRES



SM30-065-00 (2,0Nm) DS-T09S

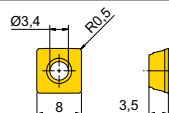
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

MODULAR MILLING ADAPTOR INNOFIT
ATTACHEMENT MODULAIRE INNOFIT

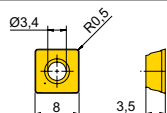


Designation Réf. de l'article	D	d	d8	L	L1	a	MOD	Z	Zeff	IK	kg
15T1E025011Z4R00	25	49	13	45	31	11	40	2	1	✓	0,29
15T1E032014Z4R00	32	49	17	55	39	14	40	4	2	✓	0,34
15T1E040017Z4R00	40	49	21	65	50	17	40	6	2	✓	0,41
15T1E050021Z4R00	50	49	27	75	60	21	40	6	2	✓	0,60

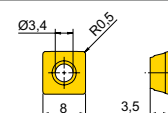
SDMT080305N



SDMW080305TN



SDCT080305FN-P



Designation Réf. de l'article	fz(min/max)	Design Execution	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

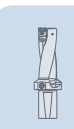
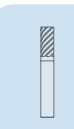
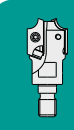
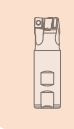
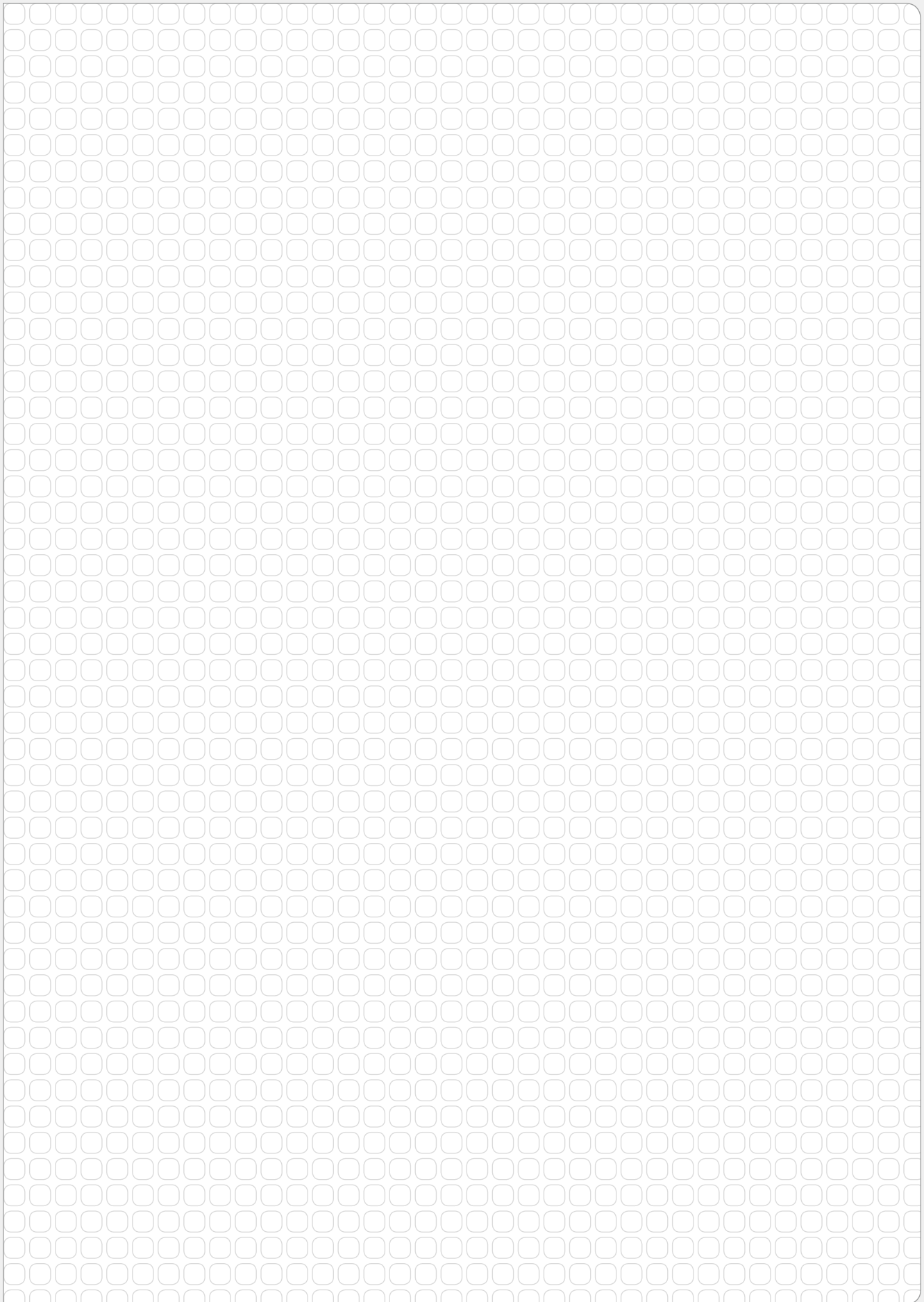
**SPARE PARTS
ACCESSOIRES**



SM30-065-00 (2,0Nm) DS-T09S

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

NOTES



COPY & PLUNGING MILLS / FRAISES À COPIER & TREFLER

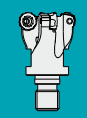
	D	a	Description	Code / Série	Page
	12 - 25	3	FORMMASTER™ Copy End Mill 15B1D...X Fraise à copier 15B1D...X	15B1D...X	148
	16 - 30	4	FORMMASTER™ Copy End Mill 15B1E...X Fraise à copier 15B1E...X	15B1E...X	149
	20 - 42	5	FORMMASTER™ Copy End Mill 15B1G...X Fraise à copier 15B1G...X	15B1G...X	150
	24 - 42	6	FORMMASTER™ Copy End Mill 15B1H...X Fraise à copier 15B1H...X	15B1H...X	151
	32	8	FORMMASTER™ Copy End Mill 15B1K...X Fraise à copier 15B1K...X	15B1K...X	152
	52 - 66	5	FORMMASTER™ Copy Face Mill 5W2G Fraise à copier 5W2G	5W2G	153
	52 - 80	6	FORMMASTER™ Copy Face Mill 5W2H Fraise à copier 5W2H	5W2H	154
	52 - 160	8	FORMMASTER™ Copy Face Mill 5W2K Fraise à copier 5W2K	5W2K	155
	16	4	FORMMASTER^{plus}™ Copy End Mill 15B2E...X Fraise à copier 15B2E...X	15B2E...X	156
	20 - 42	5	FORMMASTER^{plus}™ Copy End Mill 15B2G...X Fraise à copier 15B2G...X	15B2G...X	157
	24 - 42	6	FORMMASTER^{plus}™ Copy End Mill 15B2H...X Fraise à copier 15B2H...X	15B2H...X	158
	32 - 42	8	FORMMASTER^{plus}™ Copy End Mill 15B2K...X Fraise à copier 15B2K...X	15B2K...X	159
	52	5	FORMMASTER^{plus}™ Copy Face Mill 5W7G Fraise à copier 5W7G	5W7G	160
	52 - 80	6	FORMMASTER^{plus}™ Copy Face Mill 5W7H Fraise à copier 5W7H	5W7H	161

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	162
	66 - 160	10	FORMMASTER[®] Copy Face Mill 5W7M Fraise à copier 5W7M	5W7M	163
	20 - 35	2,5	BLADEMASTER[™] Copy End Mill 15B3G...X Fraise à copier 15B3G...X	15B3G...X	164
	24 - 42	3	BLADEMASTER[™] Copy End Mill 15B3H...X Fraise à copier 15B3H...X	15B3H...X	165
	40 - 52	2,5	BLADEMASTER[™] Copy End Mill 5W8G Fraise à copier 5W8G	5W8G	166
	50 - 80	3	BLADEMASTER[™] Copy End Mill 5W8H Fraise à copier 5W8H	5W8H	167
	24 - 42	6	FORMMASTER^{PRO} Copy End Mill 15E1H...X Fraise à copier 15E1H...X	15E1H...X	168
	32 - 42	8	FORMMASTER^{PRO} Copy End Mill 15E1K...X Fraise à copier 15E1K...X	15E1K...X	169
	50 - 80	6	FORMMASTER^{PRO} Copy End Mill 5E6H Fraise à copier 5E6H	5E6H	170
	50 - 160	8	FORMMASTER^{PRO} Copy Face Mill 5E6K Fraise à copier 5E6K	5E6K	171
	16 - 42	1	FORMMASTER^V Copy End Mill 15V1D...X Fraise à copier 15V1D...X	15V1D...X	172
	52 - 85	1	FORMMASTER^V Indexable Finish Mill 5V2D Fraise Finition Reglable 5V2D	5V2D	173
	25 - 42	2	FORMMASTER^V Copy End Mill 15V1G...X Fraise à copier 15V1G...X	15V1G...X	174
	52 - 100	2	FORMMASTER^V Copy Face Mill 5V6G Fraise à copier 5V6G	5V6G	175

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

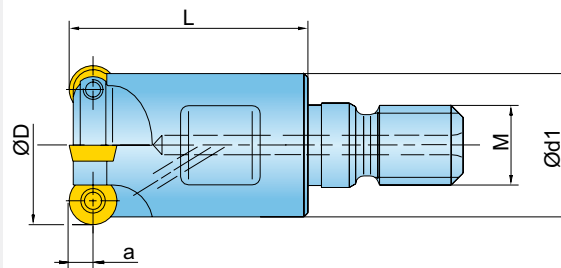
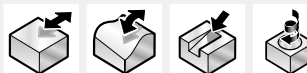


COPY & PLUNGING MILLS / FRAISES À COPIER & TREFLER

	D	a	Description	Code / Série	Page
	8 - 32	4 - 16	FINISH-BALL™ Copy Mill cylindrical 12A9... FRAISE A COPIER CYLINDRIQUE 12A9...	12A9...	176
	8 - 30	4 - 15	FINISH-BALL™ Copy Mill conical 12A8... FRAISE A COPIER CONIQUE 12A8...	12A8...	178
	8 - 32	4 - 16	FINISH-BALL™ Copy Mill carbide shank 12A... FRAISE A COPIER QUEUE CARBURE 12A5...	12A5...	180
	10 - 32	5 - 16	FINISH-BALL™ Copy Mill screw-in type 12A9...X FRAISE A COPIER TETE VISSEE 12A9...X	12A9...X	182
	12 - 25	R+1	FINISH-BALL™ Copy Mill cylindrical 12U9... FRAISE A COPIER QUEUE CYLINDRIQUE 12U9...	12U9...	184
	8 - 12	R+1	FINISH-BALL™ Copy Mill conical 12U8... FRAISE A COPIER CONIQUE 12U8...	12U8...	186
	8 - 25	R+1	FINISH-BALL™ Copy Mill carbide shank 12U5... FRAISE A COPIER QUEUE CARBURE 12U5...	12U5...	188
	10 - 25	R+1	FINISH-BALL™ Copy Mill screw-in type 12U9...X FRAISE A COPIER TETE VISSEE 12U9...X	12U9...X	190
	16 - 42		PUNCH-IN™ Plunging Mill DHU...X_R01 90° Fraise à trefler DHU...X_R01 90°	DHU...X_R01 90°	192
	16 - 42		PUNCH-IN™ Plunging Mill DHU...X_R00 backdraft Fraise à trefler DHU...X_R00 dépouillée	DHU...X_R00	193
	25 - 42		PUNCH-IN™ Plunging Mill PHU...X Fraise à trefler PHU...X	PHU...X	194
	50 - 160		SOMAX™ Plunging Mill SHU...R50/R51 Fraise à trefler SHU...R50/R51	SHU...R50/R51	195

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

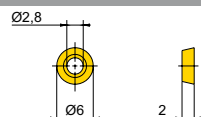
SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	d1	L	a	M	Z	Insert Ø		IK	kg
15B1D012028X4R00	12	11,8	28	3	6	2	6	10°	✓	0,02
15B1D012028X5R00	12	13	28	3	8	2	6	10°	✓	0,02
15B1D016023X5R00	16	13	23	3	8	3	6	8°	✓	0,02
15B1D020030X6R00	20	18	30	3	10	4	6	8°	✓	0,06
15B1D025035X7R00	25	21	35	3	12	5	6	5°	✓	0,10

Neutral design / Version neutre

RHHW0602M0TN



Designation Réf. de l'article	fz(min/max)	Design Execution	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

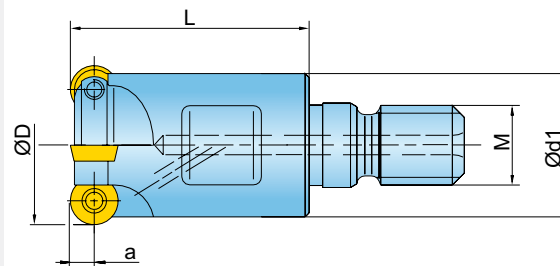
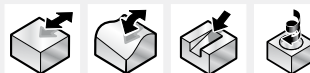
SPARE PARTS
ACCESSOIRES



SM25-049-00 (1,1Nm) DS-T08S

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

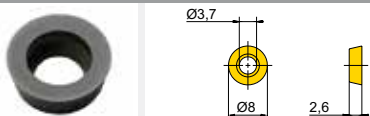
SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



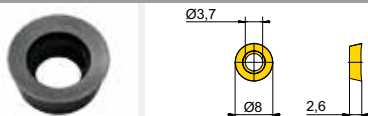
Designation Réf. de l'article	D	d1	L	a	M	Z	Insert Ø		IK	kg
15B1E016023X5R00	16	13	23	4	8	2	8	2°	✓	0,02
15B1E030043X8R00	30	29	43	4	16	5	8	7°	✓	0,19

Neutral design / Version neutre

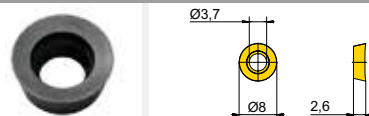
RHHW0802M0TN



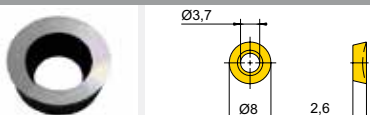
RHHT0802M0TN



RHHT0802M0TN-P



RHHT0802M0FN-P



Designation Réf. de l'article	fz(min/max)	Design Execution	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

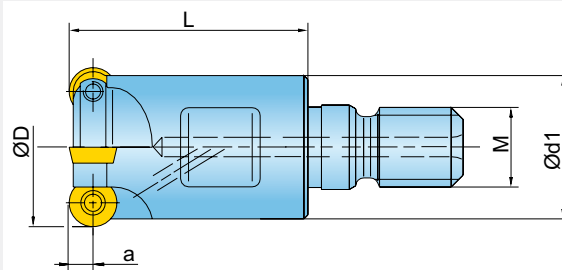
SPARE PARTS
ACCESSOIRES



SM30-053-00 (2,0Nm) DS-T09S

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

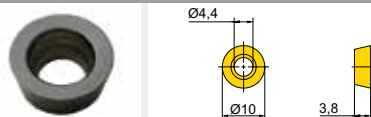
SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



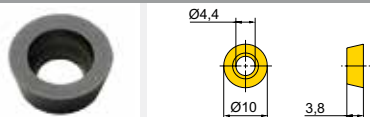
Designation Réf. de l'article	D	d1	L	a	M	Z	Insert Ø		IK	kg
15B1G020030X6R00 ¹⁾	20	18	30	5	10	2	10	3,5°	✓	0,05
15B1G025035X7R00	25	21	35	5	12	2	10	2°	✓	0,09
15B1G025035X7R01 ²⁾	25	21	35	5	12	3	10	2°	✓	0,09
15B1G030043X8R00 ¹⁾	30	29	43	5	16	4	10	10°	✓	0,19
15B1G035043X8R00	35	29	43	5	16	4	10	7,5°	✓	0,21
15B1G042043X8R00 ¹⁾	42	29	43	5	16	5	10	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

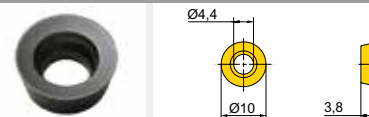
RHKW1003M0TN



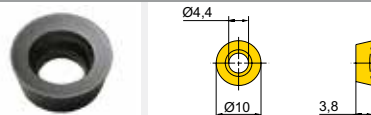
RHHW1003M0TN



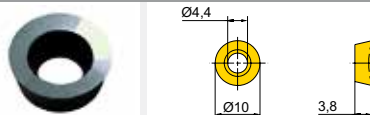
RHHT1003M0TN



RHHT1003M0TN-P



RHHT1003M0FN-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2004	IN2005	IN2006	IN2035	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

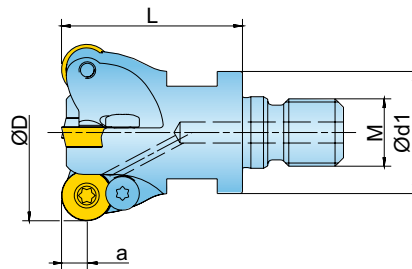
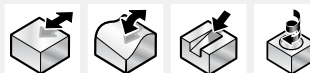
SPARE PARTS
ACCESSOIRES



SM40-080-10 (4,5Nm) DS-T15S

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

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	d1	L	a	M	Z	Insert Ø		IK	kg
15B1H024035X7R00	24	21	35	6	12	2	12	3,5°	✓	0,08
15B1H032043X8R00	32	29	43	6	16	3	12	2°	✓	0,18
15B1H035043X8R00	35	29	43	6	16	3	12	2°	✓	0,19
15B1H042043X8R00	42	29	43	6	16	4	12	2°	✓	0,25
Neutral design / Version neutre										

RHKW1204M0TN			RHHW1204M0TN			RHHT1204M0TN		
RHHT1204M0TN-P			RHHT1204M0FN-P					

Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2004	IN2005	IN2006	IN2035	IN4015	IN4040	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

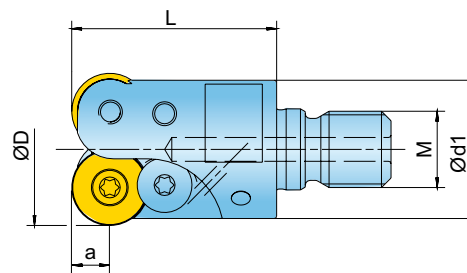
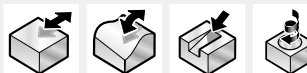


SM40-080-10 (4,5Nm) DS-T15S

SF035-01 (2,0Nm)

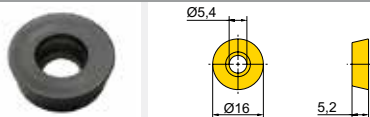
① = Insert screw / Vis de serrage plaque ② = Screw driver / Tournevis ③ = Clamping screw / Vis de serrage

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

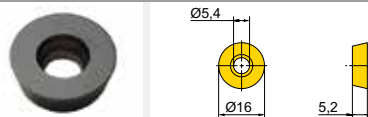


Designation Réf. de l'article	D	d1	L	a	M	Z	Insert Ø		IK	kg
15B1K032043X8R00	32	29	43	8	16	2	16	2°	✓	0,16
Neutral design / Version neutre										

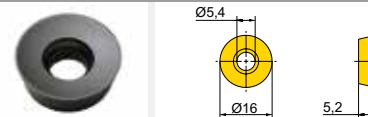
RHKW1605M0TN



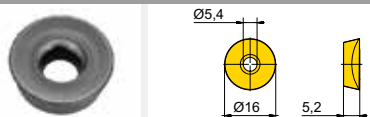
RHHW1605M0TN



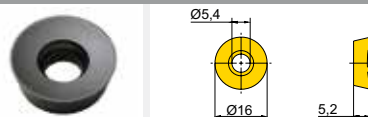
RHHT1605M0TN



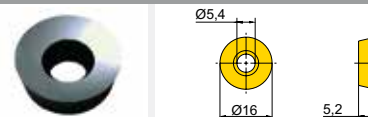
RHKT1605M0TN-PH2



RHHT1605M0TN-P



RHHT1605M0FN-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2004	IN2005	IN2035	IN4015	IN4030	IN4040	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

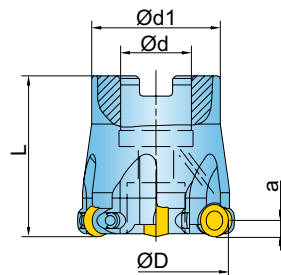
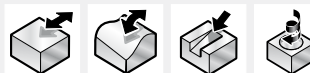


SM50-100-10 (6,0Nm) DS-T20T

CL-5000

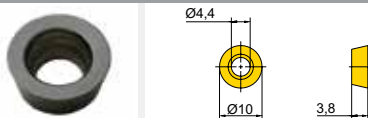
① = Insert screw / Vis de serrage plaquelette ② = Screw driver / Tournevis ③ = Clamping disk / Bride de fixation

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

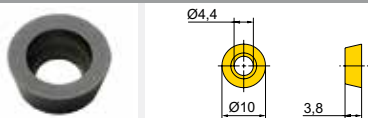


Designation Réf. de l'article	D	d	d1	L	a	Z	Insert Ø		IK	kg
5W2G052R00	52	22	40	50	5	6	10	4°	✓	0,36
5W2G066R00	66	27	48	50	5	7	10	3°	✓	0,60
Neutral design / Version neutre										

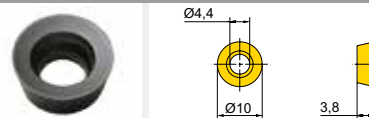
RHKW1003M0TN



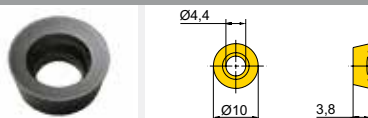
RHHW1003M0TN



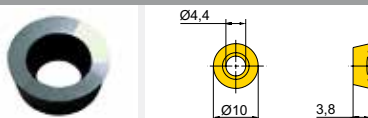
RHHT1003M0TN



RHHT1003M0TN-P



RHHT1003M0FN-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2004	IN2005	IN2006	IN2035	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

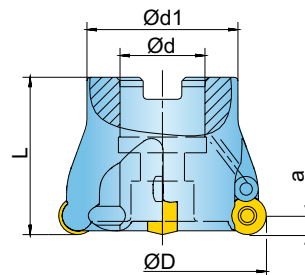
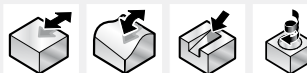
SPARE PARTS
ACCESSOIRES



SM40-080-10 (4,5Nm) DS-T15S

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

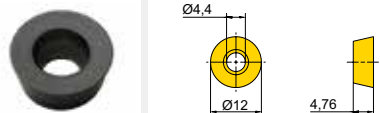
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



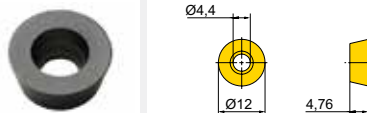
Designation Réf. de l'article	D	d	d1	L	a	Z	Insert Ø		IK	kg
5W2H052R00	52	22	40	50	6	5	12	4°	✓	0,32
5W2H066R00	66	27	48	50	6	6	12	3°	✓	0,56
5W2H080R00	80	27	60	50	6	7	12	2°	✓	0,98

Neutral design / Version neutre

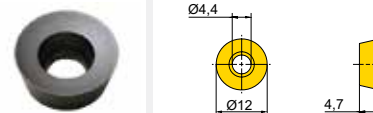
RHKW1204M0TN



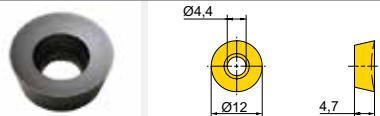
RHHW1204M0TN



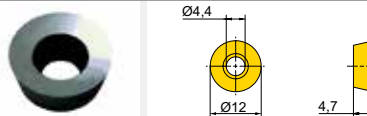
RHHT1204M0TN



RHHT1204M0TN-P



RHHT1204M0FN-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2004	IN2005	IN2006	IN2035	IN4015	IN4040	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

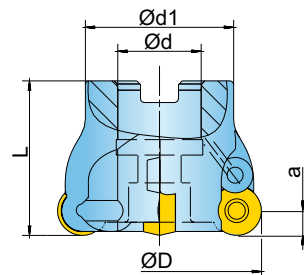
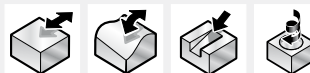


SM40-080-10 (4,5Nm) DS-T15S

SF035-01 (2,0Nm)

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis ③ = Clamping screw / Vis de serrage

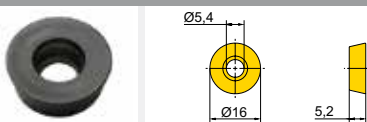
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



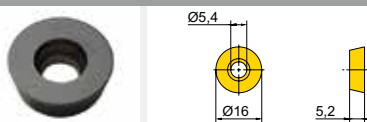
Designation Réf. de l'article	D	d	d1	L	a	Z	Insert Ø		IK	kg
5W2K052R00	52	22	40	50	8	4	16	2,5°	✓	0,30
5W2K066R00	66	27	48	50	8	5	16	3,5°	✓	0,50
5W2K080R00	80	27	60	50	8	6	16	2,5°	✓	0,86
5W2K100R00	100	32	70	55	8	7	16	2°	✓	1,38
5W2K125R00	125	40	90	55	8	8	16	1,5°		2,44
5W2K160R00	160	40	120	55	8	9	16	1°		4,84

Neutral design / Version neutre

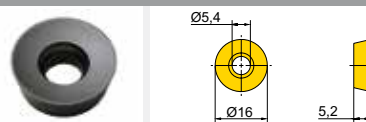
RHKW1605M0TN



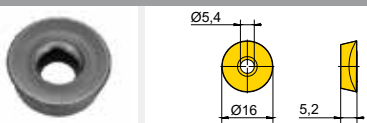
RHHW1605M0TN



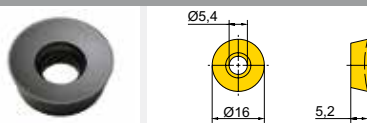
RHHT1605M0TN



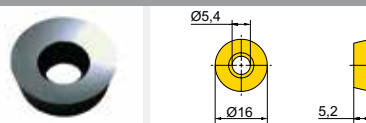
RHKT1605M0TN-PH2



RHHT1605M0TN-P



RHHT1605M0FN-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2004	IN2005	IN2035	IN4015	IN4030	IN4040	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**

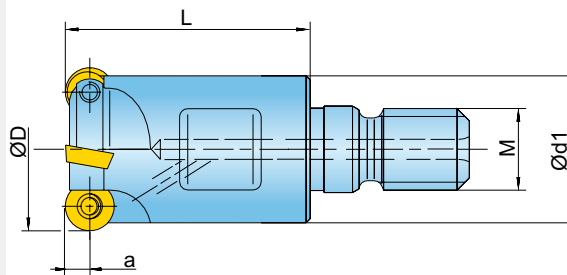
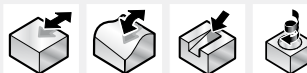


SM50-100-10 (6,0Nm) DS-T20T

CL-5000

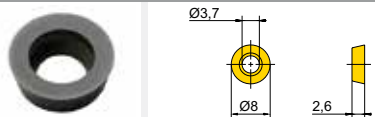
① = Insert screw / Vis de serrage plaque ② = Screw driver / Tournevis ③ = Clamping disk / Bride de fixation

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

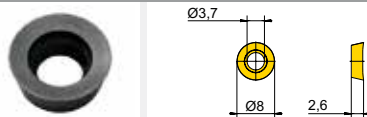


Designation Réf. de l'article	D	d1	L	a	M	Z	Insert Ø		IK	kg
15B2E016023X5R00	16	13	23	4	8	2	8	2°	✓	0,02
Positive design / Version positive										

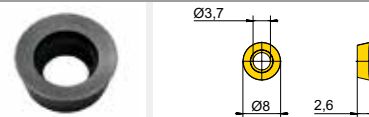
RHHW0802MOTN



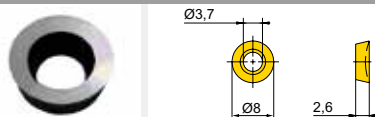
RHHT0802MOTN



RHHT0802MOTN-P



RHHT0802M0FN-P



Designation Réf. de l'article	fz(min/max)	Design Execution	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

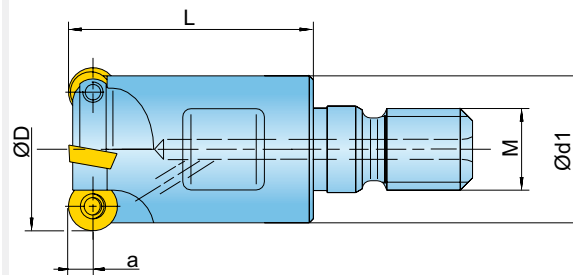
SPARE PARTS
ACCESSOIRES



SM30-053-00 (2,0Nm) DS-T09S

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

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

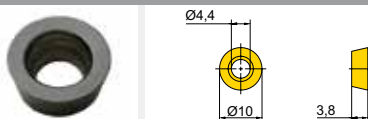


Designation Réf. de l'article	D	d1	L	a	M	Z	Insert Ø		IK	kg
15B2G020030X6R00 ¹⁾	20	18	30	5	10	2	10	3,5°	✓	0,05
15B2G025035X7R00	25	21	35	5	12	3	10	2°	✓	0,09
15B2G030043X8R00	30	29	43	5	16	3	10	10°	✓	0,19
15B2G035043X8R00	35	29	43	5	16	4	10	7,5°	✓	0,21
15B2G042043X8R00	42	29	43	5	16	5	10	5,5°	✓	0,23

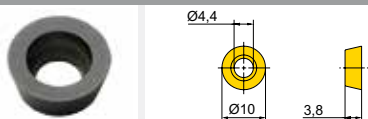
Positive design / Version positive

¹⁾ Insert screw SM40-070-00 / Vis de serrage SM40-070-00

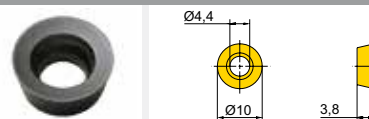
RHKW1003M0TN



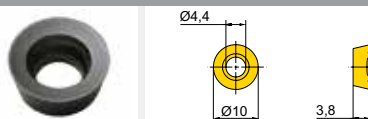
RHHW1003M0TN



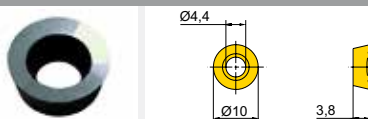
RHHT1003M0TN



RHHT1003M0TN-P



RHHT1003M0FN-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2004	IN2005	IN2006	IN2035	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

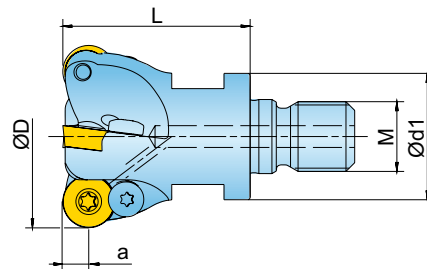
SPARE PARTS
ACCESSOIRES



SM40-080-10 (4,5Nm) DS-T15S

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

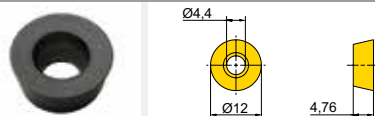
SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



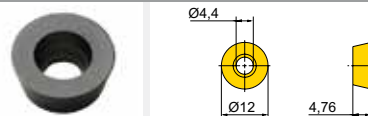
Designation Réf. de l'article	D	d1	L	a	M	Z	Insert Ø		IK	kg
15B2H024035X7R00	24	21	35	6	12	2	12	3,5°	✓	0,08
15B2H032043X8R00	32	29	43	6	16	3	12	2°	✓	0,18
15B2H035043X8R00	35	29	43	6	16	3	12	2°	✓	0,19
15B2H040043X8R00	40	29	43	6	16	4	12	2,5°	✓	0,25
15B2H042043X8R00	42	29	43	6	16	4	12	2°	✓	0,25

Positive design / Version positive

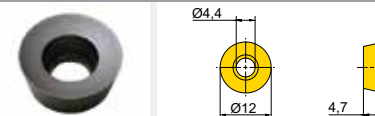
RHKW1204M0TN



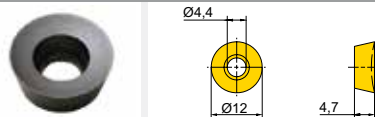
RHHW1204M0TN



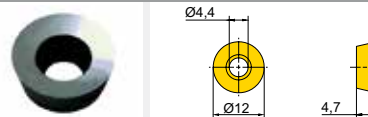
RHHT1204M0TN



RHHT1204M0TN-P



RHHT1204M0FN-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2004	IN2005	IN2006	IN2035	IN4015	IN4040	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

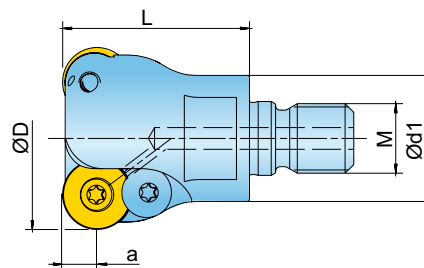


SM40-080-10 (4,5Nm) DS-T15S

SF035-01 (2,0Nm)

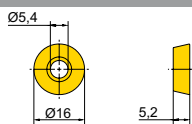
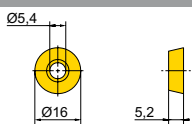
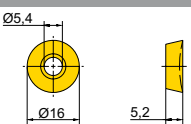
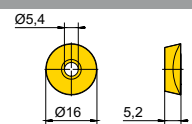
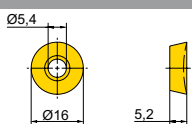
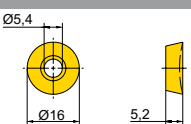
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis ③ = Clamping screw / Vis de serrage

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	d1	L	a	M	Z	Insert Ø		IK	kg
15B2K032043X8R00	32	29	43	8	16	2	16	2°	✓	0,16
15B2K042043X8R00	42	29	43	8	16	3	16	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 Execution	Grade Nuance	IN05S	IN2004	IN2005	IN2035	IN4015	IN4030	IN4040	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

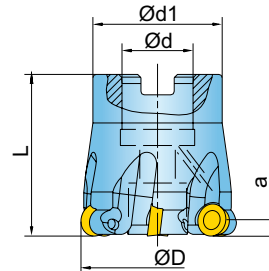
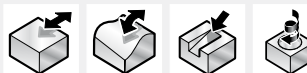


SM50-100-10 (6,0Nm) DS-T20T

CL-5000

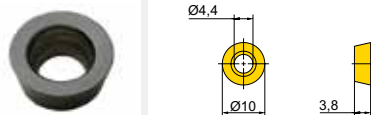
① = Insert screw / Vis de serrage plaque ② = Screw driver / Tournevis ③ = Clamping disk / Bride de fixation

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

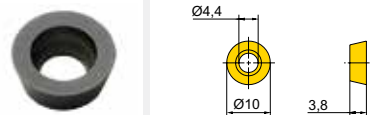


Designation Réf. de l'article	D	d	d1	L	a	Z	Insert Ø		IK	kg
5W7G052R00	52	22	40	50	5	6	10	4°	✓	0,36
Positive design / Version positive										

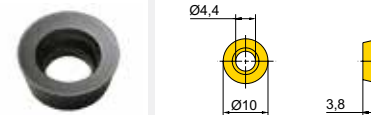
RHKW1003M0TN



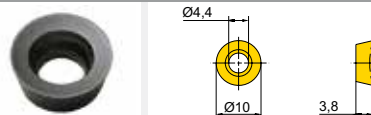
RHHW1003M0TN



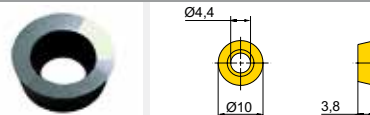
RHHT1003M0TN



RHHT1003M0TN-P



RHHT1003M0FN-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2004	IN2005	IN2006	IN2035	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

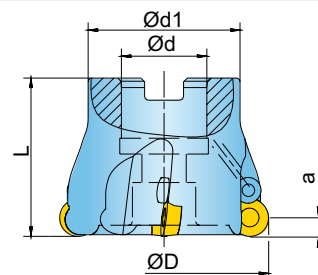
SPARE PARTS
ACCESSOIRES



SM40-080-10 (4,5Nm) DS-T15S

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

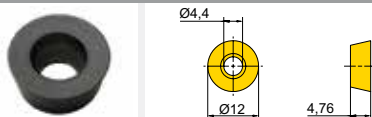
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



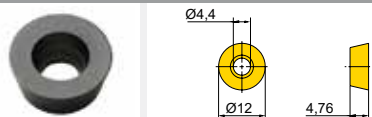
Designation Réf. de l'article	D	d	d1	L	a	Z	Insert Ø		IK	kg
5W7H052R00	52	22	40	50	6	5	12	4°	✓	0,33
5W7H066R00	66	27	48	50	6	6	12	3°	✓	0,56
5W7H080R00	80	27	60	50	6	7	12	2°	✓	1,00

Positive design / Version positive

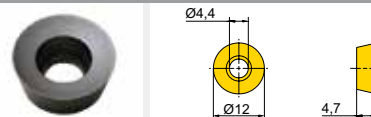
RHKW1204M0TN



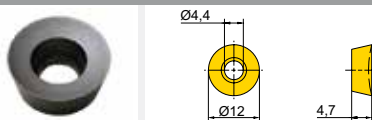
RHHW1204M0TN



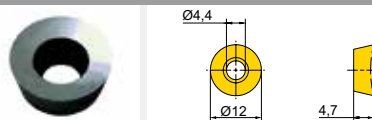
RHHT1204M0TN



RHHT1204M0TN-P



RHHT1204M0FN-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2004	IN2005	IN2006	IN2035	IN4015	IN4040	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

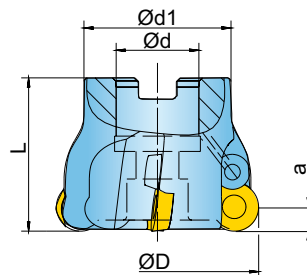


SM40-080-10 (4,5Nm) DS-T15S

SF035-01 (2,0Nm)

① = Insert screw / Vis de serrage plaquelette ② = Screw driver / Tournevis ③ = Clamping screw / Vis de serrage

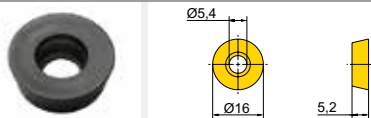
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



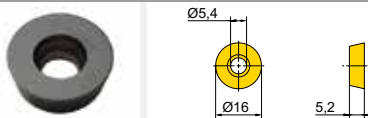
Designation Réf. de l'article	D	d	d1	L	a	Z	Insert Ø		IK	kg
5W7K052R00	52	22	40	50	8	4	16	2,5°	✓	0,30
5W7K066R00	66	27	48	50	8	5	16	3,5°	✓	0,51
5W7K080R00	80	27	60	50	8	6	16	2,5°	✓	1,00
5W7K100R00	100	32	70	55	8	7	16	2°	✓	1,45
5W7K125R00	125	40	90	55	8	8	16	1,5°		2,45
5W7K160R00	160	40	120	55	8	9	16	1°		4,53

Positive design / Version positive

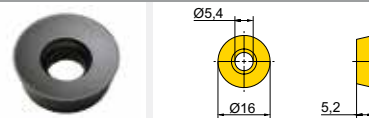
RHKW1605M0TN



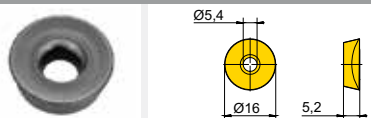
RHHW1605M0TN



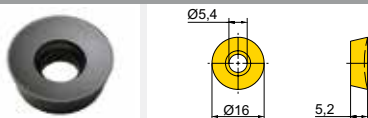
RHHT1605M0TN



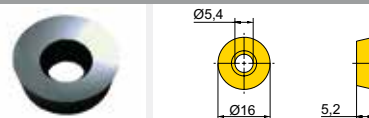
RHKT1605M0TN-PH2



RHHT1605M0TN-P



RHHT1605M0FN-P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2004	IN2005	IN2035	IN4015	IN4030	IN4040	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

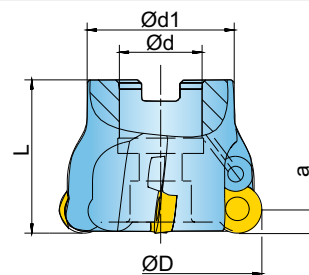


SM50-100-10 (6,0Nm) DS-T20T

CL-5000

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis ③ = Clamping disk / Bride de fixation

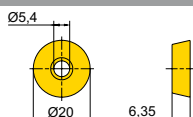
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



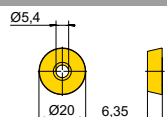
Designation Réf. de l'article	D	d	d1	L	a	Z	Insert Ø		IK	kg
5W7M066R00	66	27	48	50	10	5	20	2,5°	✓	0,51
5W7M080R00	80	27	60	50	10	6	20	5°	✓	1,00
5W7M100R00	100	32	70	55	10	7	20	3,5°	✓	1,24
5W7M125R00	125	40	90	55	10	8	20	2,5°		2,00
5W7M160R00	160	40	120	55	10	9	20	2°		4,80

Positive design / Version positive

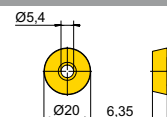
RHKW2006M0TN



RHKT2006M0TN-PH2



RHKT2006M0TN-PH



Designation Réf. de l'article	fz(min/max)	Design Execution	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

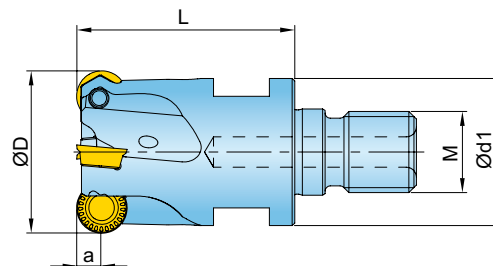
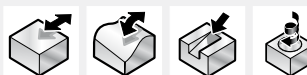


SM50-100-10 (6,0Nm) DS-T20T

CL-5000

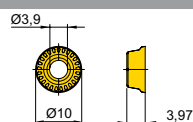
① = Insert screw / Vis de serrage plaque ② = Screw driver / Tournevis ③ = Clamping disk / Bride de fixation

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

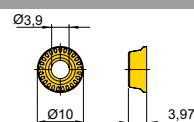


Designation Réf. de l'article	D	d1	L	a	M	Z	Insert Ø		IK	kg
15B3G020030X6R00	20	18	30	2,5	10	2	10	3,2°	✓	0,05
15B3G025035X7R00	25	21	35	2,5	12	2	10	18,2°	✓	0,09
15B3G025035X7R01	25	21	35	2,5	12	3	10	18,2°	✓	0,08
15B3G030043X8R00	30	29	43	2,5	16	3	10	6,9°	✓	0,17
15B3G032043X8R00	32	29	43	2,5	16	4	10	10,6°	✓	0,18
15B3G035043X8R00	35	29	43	2,5	16	4	10	9°	✓	0,19
15B3G035043X8R01	35	29	43	2,5	16	5	10	9°	✓	0,19

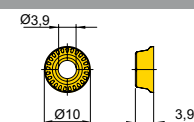
RPLT10T3MOTN-HR1



RPLT10T3MOTN-HR2



RPLT10T3MOTN-HR3



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN4035	IN7035						
RPLT10T3MOTN-HR1	0,15/0,60	positive geometry, K-land / Géo. positive avec chan. d'arête									
RPLT10T3MOTN-HR2	0,20/0,70	positive geometry, neg. K-land / Géométrie positive, chan. d'arête neg.									
RPLT10T3MOTN-HR3	0,15/0,40	high positive geometry, K-land / Géométrie très positive, chan. d'arête									

● = P ● = M ● = K ● = N ● = S ○ = H

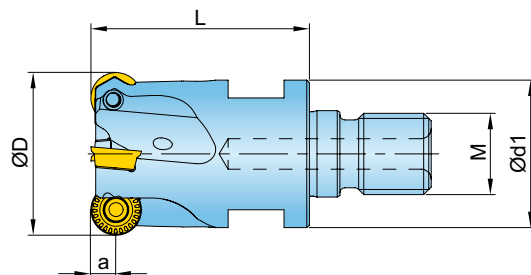
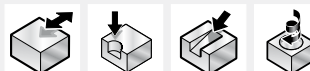
SPARE PARTS
ACCESSOIRES



SM35-076-10 (3,0Nm) DS-T15S

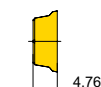
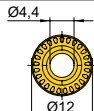
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

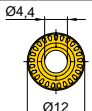


Designation Réf. de l'article	D	d1	L	a	M	Z	Insert Ø		IK	kg
15B3H024035X7R00	24	21	35	3	12	2	12	3,4°	✓	0,08
15B3H032043X8R00	32	29	43	3	16	3	12	5°	✓	0,16
15B3H035043X8R00	35	29	43	3	16	3	12	10,6°	✓	0,18
15B3H040043X8R00	40	29	43	3	16	4	12	8,2°	✓	0,20
15B3H042043X8R00	42	29	43	3	16	4	12	7,5°	✓	0,21

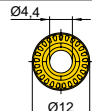
RPLT1204MOTN-HR1



RPLT1204MOTN-HR2



RPLT1204MOTN-HR3



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN4035	IN7035						
RPLT1204MOTN-HR1	0,15/0,70	positive geometry, K-land / Géo. positive avec chan. d'arête									
RPLT1204MOTN-HR2	0,20/0,80	positive geometry, neg. K-land / Géométrie positive, chan. d'arête neg.									
RPLT1204MOTN-HR3	0,15/0,50	high positive geometry, K-land / Géométrie très positive, chan. d'arête									

● = P ● = M ● = K ● = N ● = S ○ = H

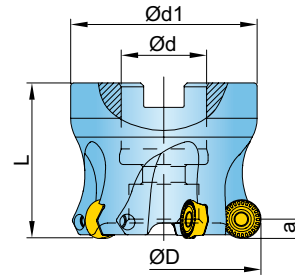
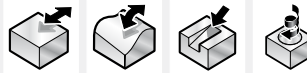
SPARE PARTS
ACCESSOIRES



SM35-090-00 (3,0Nm) DS-T15S

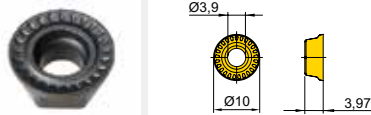
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

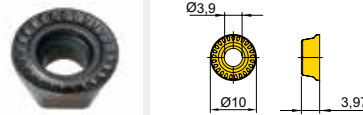


Designation Réf. de l'article	D	d	d1	L	a	Z	Insert Ø		IK	kg
5W8G040R00	40	16	38	40	2,5	4	10	7,2°	✓	0,18
5W8G040R01	40	16	38	40	2,5	5	10	7,2°	✓	0,18
5W8G042R00	42	16	38	40	2,5	4	10	6,7°	✓	0,19
5W8G042R01	42	16	38	40	2,5	5	10	6,7°	✓	0,19
5W8G050R00	50	22	48	40	2,5	5	10	5,1°	✓	0,29
5W8G050R01	50	22	48	40	2,5	6	10	5,1°	✓	0,30
5W8G052R00	52	22	48	40	2,5	6	10	4,9°	✓	0,32

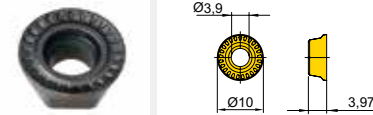
RPLT10T3MOTN-HR1



RPLT10T3MOTN-HR2



RPLT10T3MOTN-HR3



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN4035	IN7035						
RPLT10T3MOTN-HR1	0,15/0,60	positive geometry, K-land / Géo. positive avec chan. d'arête									
RPLT10T3MOTN-HR2	0,20/0,70	positive geometry, neg. K-land / Géométrie positive, chan. d'arête neg.									
RPLT10T3MOTN-HR3	0,15/0,40	high positive geometry, K-land / Géométrie très positive, chan. d'arête									

● = P ● = M ● = K ● = N ● = S ○ = H

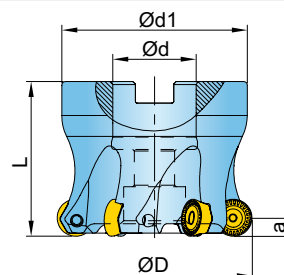
SPARE PARTS
ACCESSOIRES



SM35-076-10 (3,0Nm) DS-T15S

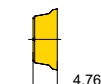
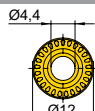
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

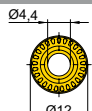


Designation Réf. de l'article	D	d	d1	L	a	Z	Insert Ø		IK	kg
5W8H050R00	50	22	48	50	3	5	12	5,7°	✓	0,36
5W8H052R00	52	22	48	50	3	5	12	5,3°	✓	0,38
5W8H063R00	63	27	60	50	3	6	12	4°	✓	0,64
5W8H063R01	63	27	60	50	3	7	12	4°	✓	0,65
5W8H066R00	66	27	60	50	3	6	12	3,8°	✓	0,69
5W8H080R00	80	27	78	50	3	7	12	2,9°	✓	1,30

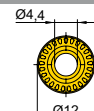
RPLT1204MOTN-HR1



RPLT1204MOTN-HR2



RPLT1204MOTN-HR3



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN4035	IN7035						
RPLT1204MOTN-HR1	0,15/0,70	positive geometry, K-land / Géo. positive avec chan. d'arête									
RPLT1204MOTN-HR2	0,20/0,80	positive geometry, neg. K-land / Géométrie positive, chan. d'arête neg.									
RPLT1204MOTN-HR3	0,15/0,50	high positive geometry, K-land / Géométrie très positive, chan. d'arête									

● = P ● = M ● = K ● = N ● = S ○ = H

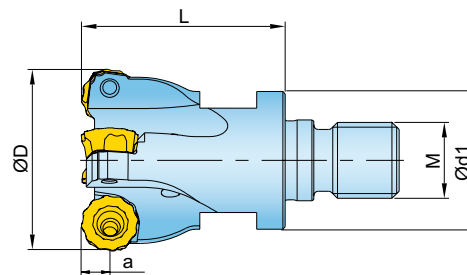
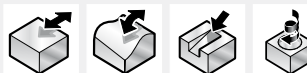
SPARE PARTS
ACCESSOIRES



SM35-090-00 (3,0Nm) DS-T15S

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

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



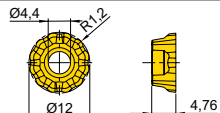
Designation
Réf. de l'article

D d1 L a M Z

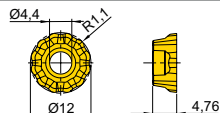


Designation Réf. de l'article	D	d1	L	a	M	Z			
15E1H024035X7R00	24	21	35	6	12	2	1,4°	✓	0,08
15E1H032043X8R00	32	29	43	6	16	3	2,6°	✓	0,18
15E1H035043X8R00	35	29	43	6	16	3	2,9°	✓	0,19
15E1H040043X8R00	40	29	43	6	16	4	5,1°	✓	0,24
15E1H042043X8R00	42	29	43	6	16	4	4,7°	✓	0,25

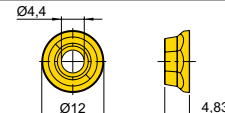
RCLT1204M0N-CC1



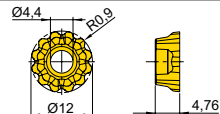
RCLT1204M0N-CC2



RCLT1204M0TN-PH2



RCLT1204M0N-CP



Designation
Réf. de l'article

fz(min/max)

Design
Execution

Grade
Nuance

IN05S

IN2005

IN2035

IN4015

IN4030

IN4040

Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2005	IN2035	IN4015	IN4030	IN4040		
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 / Géométrie positive R1,1 avec chan. d'arête									
RCLT1204M0TN-PH2	0,20/0,70	positive geometry, K-land / Géométrie positive avec chan. d'arête									
RCLT1204M0N-CP	0,10/0,25	non-ferrous geometry R0,9 / Géométrie pour mat. non fer., polie									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

①



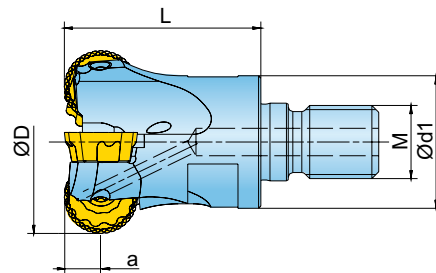
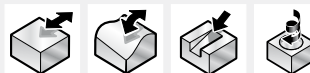
②



SM40-090-00 (4,5Nm) DS-T15S

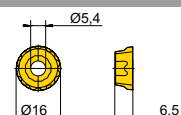
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

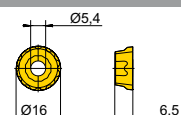


Designation Réf. de l'article	D	d1	L	a	M	Z		IK	kg
15E1K032043X8R00	32	29	43	8	16	2	1,5°	✓	0,16
15E1K040043X8R00	40	29	43	8	16	3	2,8°	✓	0,23
15E1K042043X8R00	42	29	43	8	16	3	3,6°	✓	0,25

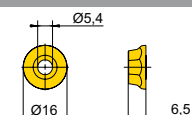
RCLT1606M0N-CC



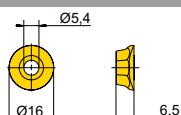
RCLT1606M0N-CC1



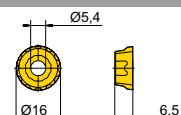
RCLT1606M0TN-PH



RCLT1606M0TN-PH2



RCLT1606M0N-CP



Designation Réf. de l'article	fz(min/max)	Design Execution	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

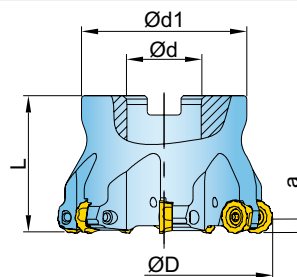
SPARE PARTS
ACCESSOIRES



SM50-105-10 (6,0Nm) DS-T20T

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

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



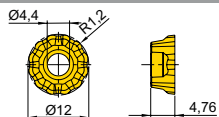
Designation
Réf. de l'article

D d d1 L a Z

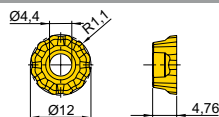


5E6H050R00	50	22	40	50	6	5	3,6°	✓	0,31
5E6H052R00	52	22	40	50	6	5	4°	✓	0,32
5E6H063R00	63	27	48	50	6	6	2,6°	✓	0,55
5E6H066R00	66	27	48	50	6	6	2,4°	✓	0,56
5E6H080R00	80	27	60	50	6	7	1,9°	✓	0,98

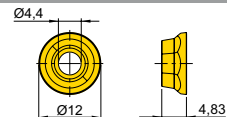
RCLT1204M0N-CC1



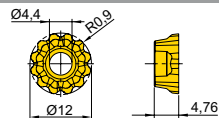
RCLT1204M0N-CC2



RCLT1204M0TN-PH2



RCLT1204M0N-CP



Designation
Réf. de l'article

fz(min/max)

Design
Execution

Grade
Nuance

IN05S

IN2005

IN2035

IN4015

IN4030

IN4040

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 / Géométrie positive R1,1 avec chan. d'arête								
RCLT1204M0TN-PH2	0,20/0,70	positive geometry, K-land / Géométrie positive avec chan. d'arête								
RCLT1204M0N-CP	0,10/0,25	non-ferrous geometry R0,9 / Géométrie pour mat. non fer., polie								

● = P ● = M ● = K ● = N ● = S ○ = H

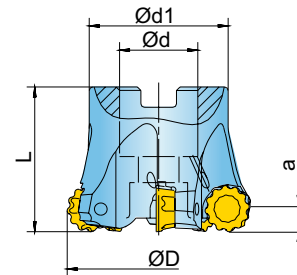
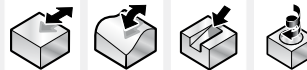
SPARE PARTS
ACCESSOIRES



SM40-090-00 (4,5Nm) DS-T15S

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

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



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

RCLT1606M0N-CC			RCLT1606M0N-CC1			RCLT1606M0TN-PH		
Designation Réf. de l'article	fz(min/max)	Design Execution	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

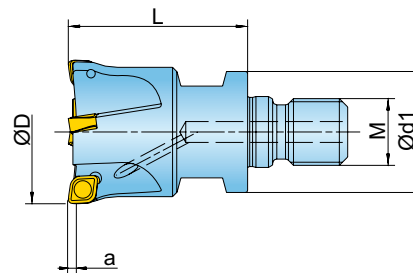
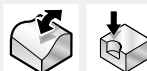
SPARE PARTS
ACCESSOIRES



SM50-120-10 (6,0Nm) DS-T20T

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

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	d1	L	a	M	Z		IK	kg
15V1D016023X5R00	16	13	23	1	8	2	5°	✓	0,02
15V1D020030X6R00	20	18	30	1	10	3	4°	✓	0,05
15V1D025035X7R00	25	21	35	1	12	3	2°	✓	0,10
15V1D035043X8R00	35	29	43	1	16	4	1,5°	✓	0,21
15V1D042043X8R00	42	29	43	1	16	5	1°	✓	0,23

CNHU060310N		CNHU060315N									
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2005	IN2006	IN2505				
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

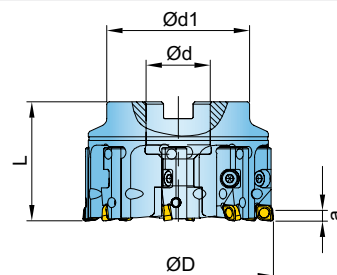
SPARE PARTS
ACCESSOIRES



SM25-075-20 (1,1Nm) DS-T08S

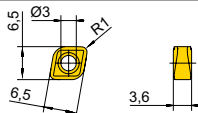
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

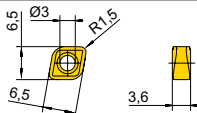


Designation Réf. de l'article	D	d	d1	L	a	Z	kg
5V2D052R00	52	22	40	50	1	5	0,33
5V2D066R00	66	27	48	50	1	6	0,33
5V2D080R00	80	27	60	50	1	8	1,00
5V2D085R00	85	27	60	50	1	8	1,20

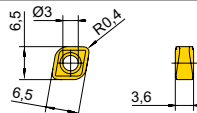
CNHU060310N



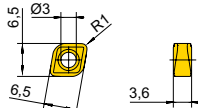
CNHU060315N



CNHU060304N-001



CNHU060310N-001



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2005	IN2006	IN2505	IN80B			
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			●						
CNHU060304N-001	0,05/0,10	CBN insert R0,4 / Plaquette insert CBN R0,4						●			
CNHU060310N-001	0,05/0,12	CBN insert R1,0 / Plaquette insert CBN R1,0						●			

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

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



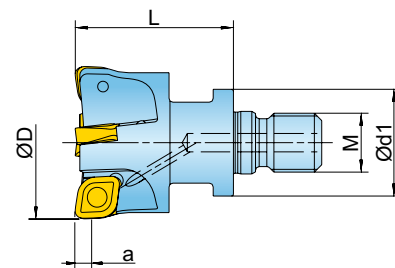
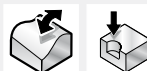
SM25-075-20 (1,1Nm) DS-T08S

65D133R00

DIN 912 M4X12-12.9 (4,5Nm)

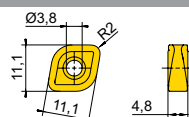
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis ③ = Cartridge / Cartouche ④ = Cartridge screw / Vis de serrage Cartouche

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	d1	L	a	M	Z			
15V1G025035X7R00	25	21	35	2	12	2	3°	✓	0,10
15V1G035043X8R00	35	29	43	2	16	3	2°	✓	0,21
15V1G042043X8R00	42	29	43	2	16	4	1,5°	✓	0,23

CNHU110420N



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2005	IN2006	IN2505				
CNHU110420N	0,10/0,40	positive geometry R2,0 / Géométrie positive R2,0									

● = P ● = M ● = K ● = N ● = S ○ = H

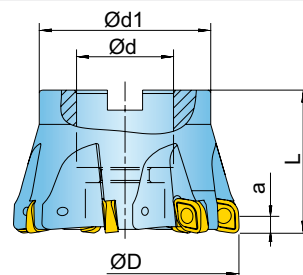
SPARE PARTS
ACCESSOIRES



SM35-088-10 (3,0Nm) DS-T10S

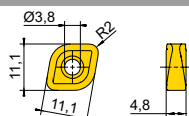
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	d	d1	L	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
5V6G085R00	85	27	60	50	2	7	0,6°	1,20
5V6G100R00	100	32	70	55	2	8	0,5°	1,38

CNHU110420N



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2005	IN2006	IN2505				
CNHU110420N	0,10/0,40	positive geometry R2,0 / Géométrie positive R2,0									

● = P ● = M ● = K ● = N ● = S ○ = H

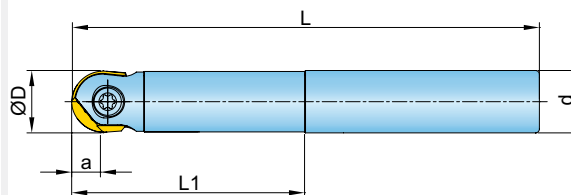
SPARE PARTS
ACCESSOIRES



SM35-088-10 (3,0Nm) DS-T10S

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	L	L1	a	Z	Zeff	
12A9R008020T0R00	8	8	90	20	4	1	2	✓
12A9S010030T1R00	10	10	90	30	5	1	2	✓
12A9T012030T2R00	12	12	110	30	6	1	2	✓
12A9U016040T3R00	16	16	130	40	8	1	2	✓
12A9V020040T4R00	20	20	110	40	10	1	2	✓
12A9V020050T4R00	20	20	150	50	10	1	2	✓
12A9V020070T4R00	20	20	220	70	10	1	2	✓
12A9W025040T5R00	25	25	125	40	12,5	1	2	✓
12A9W025070T5R00	25	25	170	70	12,5	1	2	✓
12A9X030055U7R00	30	32	140	55	15	1	2	✓
12A9X030075U7R00	30	32	190	75	15	1	2	✓
12A9X030150U7R00	30	32	300	150	15	1	2	✓
12A9Y032060U7R00	32	32	250	60	16	1	2	✓

SPARE PARTS
ACCESSOIRES

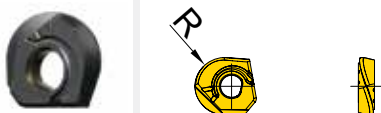
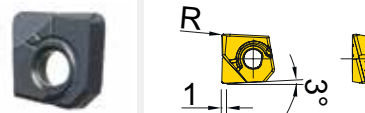


Diameter Range / Diamètres

8	SM25-080-B1 (1,1Nm) DS-TP08S (TX-Plus)
10	SM30-083-B1 (2,0Nm) DS-TP10S (TX-Plus)
12	SM40-106-B1 (4,0Nm) DS-TP15S (TX-Plus)
16	SM50-139-B1 (5,0Nm) DS-T20T
20	SM60-167-B1 (6,0Nm) DS-T25T
25	SM70-210-B1 (6,0Nm) DS-T25T
30 - 32	SM80-250-B1 (8,0Nm) DS-T30T

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

A Ball nose insert neutral / Plaquette hémisphérique neutre

B Ball nose insert helix / Plaquette hémisphérique positive

C Toric insert / Plaquette torique


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

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

Ball nose insert helix / Plaquette hémisphérique positive

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

Toric insert / Plaquette torique

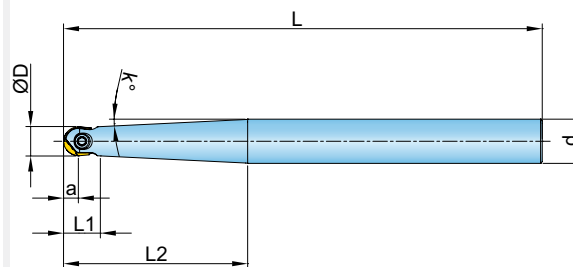
GQHG0802R03	0,10/0,20	0,3	C		
GQHG0802R05	0,10/0,20	0,5	C		
GQHG0802R10	0,10/0,20	1,0	C		
GQHG1003R05	0,10/0,25	0,5	C		

Designation Réf. de l'article	fz(min/max)	Pitch Pas	Grade Nuance	IN2005	IN2006
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GQHG1003R10	0,10/0,25	1,0	C		
GQHG1003R15	0,10/0,25	1,5	C		
GQHG1003R20	0,10/0,25	2,0	C		
GQHG1203R05	0,10/0,30	0,5	C		
GQHG1203R10	0,10/0,30	1,0	C		
GQHG1203R15	0,10/0,30	1,5	C		
GQHG1203R20	0,10/0,30	2,0	C		
GQHG1604R05	0,10/0,35	0,5	C		
GQHG1604R10	0,10/0,35	1,0	C		
GQHG1604R15	0,10/0,35	1,5	C		
GQHG1604R20	0,10/0,35	2,0	C		
GQHG1604R30	0,10/0,40	3,0	C		
GQHG2005R05	0,10/0,35	0,5	C		
GQHG2005R10	0,10/0,35	1,0	C		
GQHG2005R15	0,10/0,35	1,5	C		
GQHG2005R20	0,10/0,35	2,0	C		
GQHG2005R30	0,10/0,40	3,0	C		
GQHG2506R05	0,10/0,40	0,5	C		
GQHG2506R10	0,10/0,40	1,0	C		
GQHG2506R15	0,10/0,40	1,5	C		
GQHG2506R20	0,10/0,40	2,0	C		
GQHG2506R30	0,10/0,40	3,0	C		

● = P ● = M ● = K ● = N ● = S ○ = H

ADAPTION ACC. TO DIN 1835 A
ATTACHEMENT DIN 1835 A



Designation Réf. de l'article	D	d	L	L1	L2	κ	a	Z	Z _{eff}	IK
12A8R008020T2R00	8	12	100	10	20	9,5°	4	1	2	✓
12A8R008050T2R00	8	12	130	10	50	3°	4	1	2	✓
12A8S010025T2R00	10	12	110	15	25	5°	5	1	2	✓
12A8S010060T3R00	10	16	130	15	60	3,5°	5	1	2	✓
12A8T012060T3R00	12	16	140	25	60	2,4°	6	1	2	✓
12A8T012080T4R00	12	20	180	40	80	5°	6	1	2	✓
12A8U016060T4R00	16	20	160	25	60	2,5°	8	1	2	✓
12A8U016100T5R00	16	25	220	55	100	5°	8	1	2	✓
12A8V020080T5R00	20	25	180	40	80	2,5°	10	1	2	✓
12A8V020110T5R00	20	25	220	45	110	1,5°	10	1	2	✓
12A8W025090U7R00	25	32	200	32	90	3°	12,5	1	2	✓
12A8W025130U7R00	25	32	250	40	130	1,5°	12,5	1	2	✓
12A8X030100U7R00	30	32	250	65	100	1°	15	1	2	✓

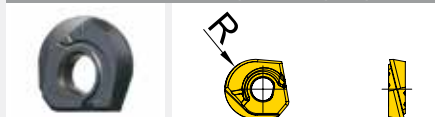
**SPARE PARTS
ACCESSOIRES**



Diameter Range / Diamètres

8	SM25-080-B1 (1,1Nm) DS-TP08S (TX-Plus)
10	SM30-083-B1 (2,0Nm) DS-TP10S (TX-Plus)
12	SM40-106-B1 (4,0Nm) DS-TP15S (TX-Plus)
16	SM50-139-B1 (5,0Nm) DS-T20T
20	SM60-167-B1 (6,0Nm) DS-T25T
25	SM70-210-B1 (6,0Nm) DS-T25T
30	SM80-250-B1 (8,0Nm) DS-T30T

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

A Ball nose insert neutral / Plaquette hémisphérique neutre

B Ball nose insert helix / Plaquette hémisphérique positive

C Toric insert / Plaquette torique


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

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

Ball nose insert helix / Plaquette hémisphérique positive

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

Toric insert / Plaquette torique

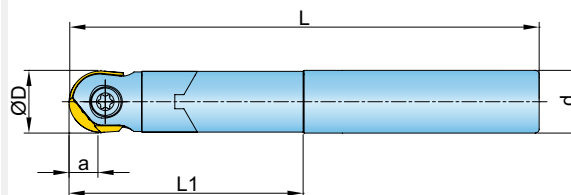
GQHG0802R03	0,10/0,20	0,3	C		
GQHG0802R05	0,10/0,20	0,5	C		
GQHG0802R10	0,10/0,20	1,0	C		
GQHG1003R05	0,10/0,25	0,5	C		

Designation Réf. de l'article	fz(min/max)	Pitch Pas	Grade Nuance	IN2005	IN2006
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GQHG1003R10	0,10/0,25	1,0	C		
GQHG1003R15	0,10/0,25	1,5	C		
GQHG1003R20	0,10/0,25	2,0	C		
GQHG1203R05	0,10/0,30	0,5	C		
GQHG1203R10	0,10/0,30	1,0	C		
GQHG1203R15	0,10/0,30	1,5	C		
GQHG1203R20	0,10/0,30	2,0	C		
GQHG1604R05	0,10/0,35	0,5	C		
GQHG1604R10	0,10/0,35	1,0	C		
GQHG1604R15	0,10/0,35	1,5	C		
GQHG1604R20	0,10/0,35	2,0	C		
GQHG1604R30	0,10/0,40	3,0	C		
GQHG2005R05	0,10/0,35	0,5	C		
GQHG2005R10	0,10/0,35	1,0	C		
GQHG2005R15	0,10/0,35	1,5	C		
GQHG2005R20	0,10/0,35	2,0	C		
GQHG2005R30	0,10/0,40	3,0	C		
GQHG2506R05	0,10/0,40	0,5	C		
GQHG2506R10	0,10/0,40	1,0	C		
GQHG2506R15	0,10/0,40	1,5	C		
GQHG2506R20	0,10/0,40	2,0	C		
GQHG2506R30	0,10/0,40	3,0	C		

● = P ● = M ● = K ● = N ● = S ○ = H

ADAPTION ACC. TO DIN 1835 A
ATTACHEMENT DIN 1835 A



Designation
Réf. de l'article

12A5R008030T0R00	8	8	100	30	4	1	2
12A5R008075T1R00	8	10	140	75	4	1	2
12A5S010035T1R00	10	10	100	35	5	1	2
12A5S010075T1R00	10	10	140	75	5	1	2
12A5S010140T1R00	10	10	220	140	5	1	2
12A5T012050T2R00	12	12	120	50	6	1	2
12A5T012090T2R00	12	12	160	90	6	1	2
12A5T012150T2R00	12	12	220	150	6	1	2
12A5U016060T3R00	16	16	120	60	8	1	2
12A5U016080T3R00	16	16	160	80	8	1	2
12A5U016150T3R00	16	16	220	150	8	1	2
12A5V020120T4R00	20	20	220	120	10	1	2
12A5V020220T4R00	20	20	300	220	10	1	2
12A5W025120T5R00	25	25	220	120	12,5	1	2
12A5W025220T5R00	25	25	300	220	12,5	1	2
12A8X030150U7R00	30	32	250	150	15	1	2
12A8X030230U7R00	30	32	350	230	15	1	2
12A5Y032220U7R00	32	32	300	220	16	1	2

SPARE PARTS
ACCESSOIRES



Diameter Range / Diamètres

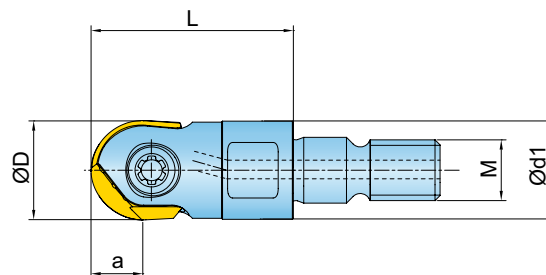
8	SM25-080-B1 (1,1Nm) DS-TP08S (TX-Plus)
10	SM30-083-B1 (2,0Nm) DS-TP10S (TX-Plus)
12	SM40-106-B1 (4,0Nm) DS-TP15S (TX-Plus)
16	SM50-139-B1 (5,0Nm) DS-T20T
20	SM60-167-B1 (6,0Nm) DS-T25T
25	SM70-210-B1 (6,0Nm) DS-T25T
30 - 32	SM80-250-B1 (8,0Nm) DS-T30T

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

A Ball nose insert neutral / Plaquette hémisphérique neutre							B Ball nose insert helix / Plaquette hémisphérique positive							C Toric insert / Plaquette torique						
																				
Designation Réf. de l'article	fz(min/max)	Pitch Pas	Grade Nuance	IN2005	IN2006		Designation Réf. de l'article	fz(min/max)	Pitch Pas	Grade Nuance	IN2005	IN2006		Designation Réf. de l'article	fz(min/max)	Pitch Pas	Grade Nuance	IN2005	IN2006	
Ball nose insert neutral / Plaquette hémisphérique neutre							GQHG1003R10							GQHG1003R10						
NQHG0802MOR-FM	0,08/0,20	4,0	A				NQHG0802MOR-SM	0,08/0,20	4,0	B				GQHG1003R15	0,10/0,25	1,5	C			
NQHG1003MOR-FM	0,10/0,25	5,0	A				NQHG1003MOR-SM	0,10/0,25	5,0	B				GQHG1003R20	0,10/0,25	2,0	C			
NQHG1203MOR-FM	0,10/0,30	6,0	A				NQHG1203MOR-SM	0,10/0,30	6,0	B				GQHG1203R05	0,10/0,30	0,5	C			
NQHG1604MOR-FM	0,10/0,30	8,0	A				NQHG1604MOR-SM	0,10/0,30	8,0	B				GQHG1203R10	0,10/0,30	1,0	C			
NQHG2005MOR-FM	0,10/0,30	10,0	A				NQHG2005MOR-SM	0,10/0,30	10,0	B				GQHG1203R15	0,10/0,30	1,5	C			
NQHG2506MOR-FM	0,10/0,30	12,5	A				NQHG2506MOR-SM	0,10/0,30	12,5	B				GQHG1203R20	0,10/0,30	2,0	C			
NQHG3007MOR-FM	0,10/0,30	15,0	A				NQHG3007MOR-SM	0,10/0,30	15,0	B				GQHG1604R05	0,10/0,35	0,5	C			
NQHG3207MOR-FM	0,10/0,30	16,0	A				NQHG3207MOR-SM	0,10/0,30	16,0	B				GQHG1604R10	0,10/0,35	1,0	C			
Ball nose insert helix / Plaquette hémisphérique positive							GQHG1604R15							GQHG1604R10						
NQHG0802MOR-SM	0,08/0,20	4,0	B				GQHG1604R20	0,10/0,35	2,0	C				GQHG1604R15	0,10/0,35	1,5	C			
NQHG1003MOR-SM	0,10/0,25	5,0	B				GQHG1604R30	0,10/0,40	3,0	C				GQHG1604R20	0,10/0,35	2,0	C			
NQHG1203MOR-SM	0,10/0,30	6,0	B				GQHG2005R05	0,10/0,35	0,5	C				GQHG2005R10	0,10/0,35	1,0	C			
NQHG1604MOR-SM	0,10/0,30	8,0	B				GQHG2005R15	0,10/0,35	1,5	C				GQHG2005R20	0,10/0,35	2,0	C			
NQHG2005MOR-SM	0,10/0,30	10,0	B				GQHG2005R30	0,10/0,40	3,0	C				GQHG2506R05	0,10/0,40	0,5	C			
NQHG2506MOR-SM	0,10/0,30	12,5	B				GQHG2506R10	0,10/0,40	1,0	C				GQHG2506R15	0,10/0,40	1,5	C			
NQHG3007MOR-SM	0,10/0,30	15,0	B				GQHG2506R20	0,10/0,40	2,0	C				GQHG2506R30	0,10/0,40	3,0	C			
NQHG3207MOR-SM	0,10/0,30	16,0	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	1,0	C																	
GQHG1003R05	0,10/0,25	0,5	C																	

● = P ● = M ● = K ● = N ● = S ○ = H

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation
Réf. de l'article

D d1 L a M Z Zeff



12A9S010020X4R00	10	9,7	20	5	6	1	2	✓
12A9T012023X4R00	12	11,5	23	6	6	1	2	✓
12A9T012023X5R00	12	13	23	6	8	1	2	✓
12A9U016030X5R00	16	13	30	8	8	1	2	✓
12A9V020030X6R00	20	19	30	10	10	1	2	✓
12A9W025035X7R00	25	24	35	12,5	12	1	2	✓
12A9X030043X8R00	30	29	43	15	16	1	2	✓
12A9Y032043X8R00	32	29,5	43	16	16	1	2	✓

SPARE PARTS
ACCESSOIRES

①



②



Diameter Range / Diamètres

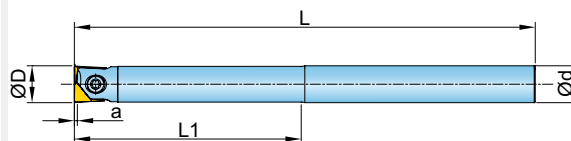
10	SM30-083-B1 (2,0Nm) DS-TP10S (TX-Plus)
12	SM40-106-B1 (4,0Nm) DS-TP15S (TX-Plus)
16	SM50-139-B1 (5,0Nm) DS-T20T
20	SM60-167-B1 (6,0Nm) DS-T25T
25	SM70-210-B1 (6,0Nm) DS-T25T
30 - 32	SM80-250-B1 (8,0Nm) DS-T30T

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

A Ball nose insert neutral / Plaquette hémisphérique neutre							B Ball nose insert helix / Plaquette hémisphérique positive							C Toric insert / Plaquette torique						
																				
Designation Réf. de l'article	fz(min/max)	Pitch Pas	Grade Nuance	IN2005	IN2006		Designation Réf. de l'article	fz(min/max)	Pitch Pas	Grade Nuance	IN2005	IN2006		Designation Réf. de l'article	fz(min/max)	Pitch Pas	Grade Nuance	IN2005	IN2006	
Ball nose insert neutral / Plaquette hémisphérique neutre							GQHG1003R10							GQHG1003R10						
NQHG0802MOR-FM	0,08/0,20	4,0	A				GQHG1003R15	0,10/0,25	1,5	G				GQHG1003R15	0,10/0,25	1,5	G			
NQHG1003MOR-FM	0,10/0,25	5,0	A				GQHG1003R20	0,10/0,25	2,0	G				GQHG1003R20	0,10/0,25	2,0	G			
NQHG1203MOR-FM	0,10/0,30	6,0	A				GQHG1203R05	0,10/0,30	0,5	G				GQHG1203R05	0,10/0,30	0,5	G			
NQHG1604MOR-FM	0,10/0,30	8,0	A				GQHG1203R10	0,10/0,30	1,0	G				GQHG1203R10	0,10/0,30	1,0	G			
NQHG2005MOR-FM	0,10/0,30	10,0	A				GQHG1203R15	0,10/0,30	1,5	G				GQHG1203R15	0,10/0,30	1,5	G			
NQHG2506MOR-FM	0,10/0,30	12,5	A				GQHG1203R20	0,10/0,30	2,0	G				GQHG1203R20	0,10/0,30	2,0	G			
NQHG3007MOR-FM	0,10/0,30	15,0	A				GQHG1604R05	0,10/0,35	0,5	G				GQHG1604R05	0,10/0,35	0,5	G			
NQHG3207MOR-FM	0,10/0,30	16,0	A				GQHG1604R10	0,10/0,35	1,0	G				GQHG1604R10	0,10/0,35	1,0	G			
Ball nose insert helix / Plaquette hémisphérique positive							GQHG1604R15	0,10/0,35	1,5	G				GQHG1604R15	0,10/0,35	1,5	G			
NQHG0802MOR-SM	0,08/0,20	4,0	B				GQHG1604R20	0,10/0,35	2,0	G				GQHG1604R20	0,10/0,35	2,0	G			
NQHG1003MOR-SM	0,10/0,25	5,0	B				GQHG1604R30	0,10/0,40	3,0	G				GQHG1604R30	0,10/0,40	3,0	G			
NQHG1203MOR-SM	0,10/0,30	6,0	B				GQHG2005R05	0,10/0,35	0,5	G				GQHG2005R05	0,10/0,35	0,5	G			
NQHG1604MOR-SM	0,10/0,30	8,0	B				GQHG2005R10	0,10/0,35	1,0	G				GQHG2005R10	0,10/0,35	1,0	G			
NQHG2005MOR-SM	0,10/0,30	10,0	B				GQHG2005R15	0,10/0,35	1,5	G				GQHG2005R15	0,10/0,35	1,5	G			
NQHG2506MOR-SM	0,10/0,30	12,5	B				GQHG2005R20	0,10/0,35	2,0	G				GQHG2005R20	0,10/0,35	2,0	G			
NQHG3007MOR-SM	0,10/0,30	15,0	B				GQHG2005R30	0,10/0,40	3,0	G				GQHG2005R30	0,10/0,40	3,0	G			
NQHG3207MOR-SM	0,10/0,30	16,0	B				GQHG2506R05	0,10/0,40	0,5	G				GQHG2506R05	0,10/0,40	0,5	G			
Toric insert / Plaquette torique							GQHG2506R10	0,10/0,40	1,0	G				GQHG2506R10	0,10/0,40	1,0	G			
GQHG0802R03	0,10/0,20	0,3	G				GQHG2506R15	0,10/0,40	1,5	G				GQHG2506R15	0,10/0,40	1,5	G			
GQHG0802R05	0,10/0,20	0,5	G				GQHG2506R20	0,10/0,40	2,0	G				GQHG2506R20	0,10/0,40	2,0	G			
GQHG0802R10	0,10/0,20	1,0	G				GQHG2506R30	0,10/0,40	3,0	G				GQHG2506R30	0,10/0,40	3,0	G			
GQHG1003R05	0,10/0,25	0,5	G																	

● = P ● = M ● = K ● = N ● = S ○ = H

ADAPTION ACC. TO DIN 1835 A
ATTACHEMENT DIN 1835 A



Designation Réf. de l'article	D	d	L	L1	a	Z	Zeff	IK
12U9T012030T2R00	12	12	110	30	R+1	1	2	✓
12U9U016050T3R00	16	16	130	50	R+1	1	2	✓
12U9U016070T3R00	16	16	170	70	R+1	1	2	✓
12U9U016100T3R00	16	16	200	100	R+1	1	2	✓
12U9V020060T4R00	20	20	140	60	R+1	1	2	✓
12U9V020080T4R00	20	20	180	80	R+1	1	2	✓
12U9V020120T4R00	20	20	250	120	R+1	1	2	✓
12U9W025070T5R00	25	25	150	70	R+1	1	2	✓
12U9W025100T5R00	25	25	200	100	R+1	1	2	✓
12U9W025120T5R00	25	25	250	120	R+1	1	2	✓

SPARE PARTS
ACCESSOIRES

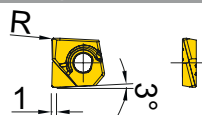


Diameter Range / Diamètres

12	SM40-106-B1 (4,0Nm) DS-TP15S (TX-Plus)
16	SM50-139-B1 (5,0Nm) DS-T20T
20	SM60-167-B1 (6,0Nm) DS-T25T
25	SM70-210-B1 (6,0Nm) DS-T30T

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

A Toric insert / Plaquette torique



Designation Réf. de l'article	fz(min/max)	Pitch Pas	Grade Nuance	IN2005	IN2006
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Toric insert / Plaquette torique

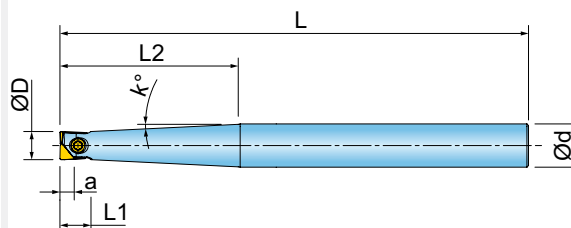
GQHG0802R03	0,10/0,20	0,3	A		
GQHG0802R05	0,10/0,20	0,5	A		
GQHG0802R10	0,10/0,20	1,0	A		
GQHG1003R05	0,10/0,25	0,5	A		
GQHG1003R10	0,10/0,25	1,0	A		
GQHG1003R15	0,10/0,25	1,5	A		
GQHG1003R20	0,10/0,25	2,0	A		
GQHG1203R05	0,10/0,30	0,5	A		
GQHG1203R10	0,10/0,30	1,0	A		
GQHG1203R15	0,10/0,30	1,5	A		
GQHG1203R20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

Designation Réf. de l'article	fz(min/max)	Pitch Pas	Grade Nuance	IN2005	IN2006
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GQHG1604R20	0,10/0,35	2,0	A		
GQHG1604R30	0,10/0,40	3,0	A		
GQHG2005R05	0,10/0,35	0,5	A		
GQHG2005R10	0,10/0,35	1,0	A		
GQHG2005R15	0,10/0,35	1,5	A		
GQHG2005R20	0,10/0,35	2,0	A		
GQHG2005R30	0,10/0,40	3,0	A		
GQHG2506R05	0,10/0,40	0,5	A		
GQHG2506R10	0,10/0,40	1,0	A		
GQHG2506R15	0,10/0,40	1,5	A		
GQHG2506R20	0,10/0,40	2,0	A		
GQHG2506R30	0,10/0,40	3,0	A		

● = P ● = M ● = K ● = N ● = S ○ = H

ADAPTION ACC. TO DIN 1835 A
ATTACHEMENT DIN 1835 A



Designation Réf. de l'article	D	d	L	L1	L2	κ	a	Z	Z _{eff}	IK
12U8R008010T2R00	8	12	100	10	22	9°	R+1	1	2	✓
12U8R008010T2R01	8	12	130	10	50	2,8°	R+1	1	2	✓
12U8S010015T2R00	10	12	110	15	25	5°	R+1	1	2	✓
12U8S010015T3R00	10	16	150	15	50	3,5°	R+1	1	2	✓
12U8T012018T3R00	12	16	160	18	60	2,5°	R+1	1	2	✓

SPARE PARTS
ACCESSOIRES

①



②

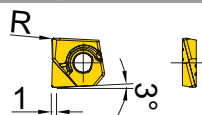


Diameter Range / Diamètres

8	SM25-080-B1 (1,1Nm) DS-TP08S (TX-Plus)
10	SM30-083-B1 (2,0Nm) DS-TP10S (TX-Plus)
12	SM40-106-B1 (4,0Nm) DS-TP15S (TX-Plus)

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

A Toric insert / Plaquette torique



Designation Réf. de l'article	fz(min/max)	Pitch Pas	Grade Nuance	IN2005	IN2006
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Toric insert / Plaquette torique

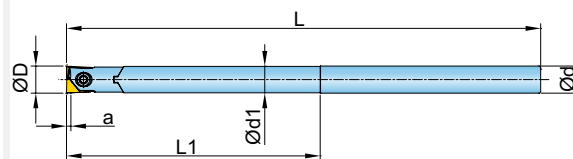
GQHG0802R03	0,10/0,20	0,3	A		
GQHG0802R05	0,10/0,20	0,5	A		
GQHG0802R10	0,10/0,20	1,0	A		
GQHG1003R05	0,10/0,25	0,5	A		
GQHG1003R10	0,10/0,25	1,0	A		
GQHG1003R15	0,10/0,25	1,5	A		
GQHG1003R20	0,10/0,25	2,0	A		
GQHG1203R05	0,10/0,30	0,5	A		
GQHG1203R10	0,10/0,30	1,0	A		
GQHG1203R15	0,10/0,30	1,5	A		
GQHG1203R20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

Designation Réf. de l'article	fz(min/max)	Pitch Pas	Grade Nuance	IN2005	IN2006
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GQHG1604R20	0,10/0,35	2,0	A		
GQHG1604R30	0,10/0,40	3,0	A		
GQHG2005R05	0,10/0,35	0,5	A		
GQHG2005R10	0,10/0,35	1,0	A		
GQHG2005R15	0,10/0,35	1,5	A		
GQHG2005R20	0,10/0,35	2,0	A		
GQHG2005R30	0,10/0,40	3,0	A		
GQHG2506R05	0,10/0,40	0,5	A		
GQHG2506R10	0,10/0,40	1,0	A		
GQHG2506R15	0,10/0,40	1,5	A		
GQHG2506R20	0,10/0,40	2,0	A		
GQHG2506R30	0,10/0,40	3,0	A		

● = P ● = M ● = K ● = N ● = S ○ = H

ADAPTION ACC. TO DIN 1835 A
ATTACHEMENT DIN 1835 A



Designation
Réf. de l'article

D d d1 L L1 a Z Zeff

12U5R008075T0R00	8	8	7,8	140	75	R+1	1	2
12U5S010075T1R00	10	10	9,7	140	75	R+1	1	2
12U5T012095T2R00	12	12	11,7	160	95	R+1	1	2
12U5U016120T3R00	16	16	15,5	200	120	R+1	1	2
12U5V020160T4R00	20	20	19,5	250	160	R+1	1	2
12U5W025200T5R00	25	25	24,5	300	200	R+1	1	2

SPARE PARTS
ACCESSOIRES



Diameter Range / Diamètres

8	SM25-080-B1 (1,1Nm) DS-TP08S (TX-Plus)
10	SM30-083-B1 (2,0Nm) DS-TP10S (TX-Plus)
12	SM40-106-B1 (4,0Nm) DS-TP15S (TX-Plus)
16	SM50-139-B1 (5,0Nm) DS-T20T
20	SM60-167-B1 (6,0Nm) DS-T25T
25	SM70-210-B1 (6,0Nm) DS-T30T

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

A Toric insert / Plaquette torique



Designation Réf. de l'article	fz(min/max)	Pitch Pas	Grade Nuance	IN2005	IN2006
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Toric insert / Plaquette torique

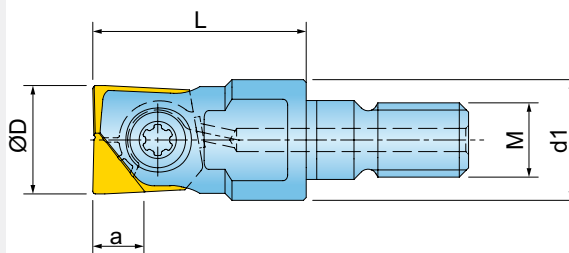
GQHG0802R03	0,10/0,20	0,3	A		
GQHG0802R05	0,10/0,20	0,5	A		
GQHG0802R10	0,10/0,20	1,0	A		
GQHG1003R05	0,10/0,25	0,5	A		
GQHG1003R10	0,10/0,25	1,0	A		
GQHG1003R15	0,10/0,25	1,5	A		
GQHG1003R20	0,10/0,25	2,0	A		
GQHG1203R05	0,10/0,30	0,5	A		
GQHG1203R10	0,10/0,30	1,0	A		
GQHG1203R15	0,10/0,30	1,5	A		
GQHG1203R20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

Designation Réf. de l'article	fz(min/max)	Pitch Pas	Grade Nuance	IN2005	IN2006
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GQHG1604R20	0,10/0,35	2,0	A		
GQHG1604R30	0,10/0,40	3,0	A		
GQHG2005R05	0,10/0,35	0,5	A		
GQHG2005R10	0,10/0,35	1,0	A		
GQHG2005R15	0,10/0,35	1,5	A		
GQHG2005R20	0,10/0,35	2,0	A		
GQHG2005R30	0,10/0,40	3,0	A		
GQHG2506R05	0,10/0,40	0,5	A		
GQHG2506R10	0,10/0,40	1,0	A		
GQHG2506R15	0,10/0,40	1,5	A		
GQHG2506R20	0,10/0,40	2,0	A		
GQHG2506R30	0,10/0,40	3,0	A		

● = P ● = M ● = K ● = N ● = S ○ = H

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	d1	L	a	M	Z	Zeff	
12U9S010020X4R00	10	9,7	20	R+1	6	1	2	✓
12U9T012023X4R00	12	11,5	23	R+1	6	1	2	✓
12U9T012023X5R00	12	13	23	R+1	8	1	2	✓
12U9U016030X5R00	16	13	30	R+1	8	1	2	✓
12U9V020030X6R00	20	19	30	R+1	10	1	2	✓
12U9W025035X7R00	25	24	35	R+1	12	1	2	✓

SPARE PARTS
ACCESSOIRES

①



②



Diameter Range / Diamètres

10	SM30-083-B1 (2,0Nm) DS-TP10S (TX-Plus)
12	SM40-106-B1 (4,0Nm) DS-TP15S (TX-Plus)
16	SM50-139-B1 (5,0Nm) DS-T20T
20	SM60-167-B1 (6,0Nm) DS-T25T
25	SM70-210-B1 (6,0Nm) DS-T30T

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

A Toric insert / Plaque torique



Designation Réf. de l'article	fz(min/max)	Pitch Pas	Grade Nuance	IN2005	IN2006
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Toric insert / Plaque torique

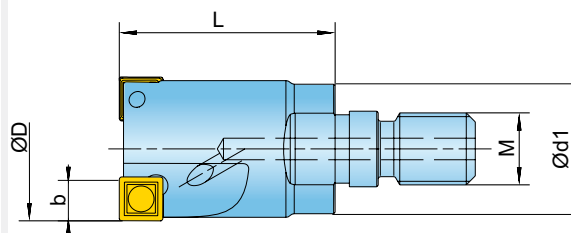
GQHG0802R03	0,10/0,20	0,3	A		
GQHG0802R05	0,10/0,20	0,5	A		
GQHG0802R10	0,10/0,20	1,0	A		
GQHG1003R05	0,10/0,25	0,5	A		
GQHG1003R10	0,10/0,25	1,0	A		
GQHG1003R15	0,10/0,25	1,5	A		
GQHG1003R20	0,10/0,25	2,0	A		
GQHG1203R05	0,10/0,30	0,5	A		
GQHG1203R10	0,10/0,30	1,0	A		
GQHG1203R15	0,10/0,30	1,5	A		
GQHG1203R20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

Designation Réf. de l'article	fz(min/max)	Pitch Pas	Grade Nuance	IN2005	IN2006
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GQHG1604R20	0,10/0,35	2,0	A		
GQHG1604R30	0,10/0,40	3,0	A		
GQHG2005R05	0,10/0,35	0,5	A		
GQHG2005R10	0,10/0,35	1,0	A		
GQHG2005R15	0,10/0,35	1,5	A		
GQHG2005R20	0,10/0,35	2,0	A		
GQHG2005R30	0,10/0,40	3,0	A		
GQHG2506R05	0,10/0,40	0,5	A		
GQHG2506R10	0,10/0,40	1,0	A		
GQHG2506R15	0,10/0,40	1,5	A		
GQHG2506R20	0,10/0,40	2,0	A		
GQHG2506R30	0,10/0,40	3,0	A		

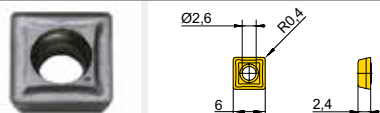
● = P ● = M ● = K ● = N ● = S ○ = H

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

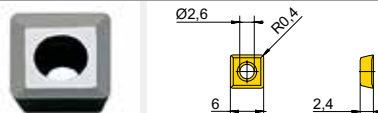


Designation Réf. de l'article	D	d1	L	b	M	Z	IK	kg	Related Insert Plaquette préconisée
DHU016023X5R01	16	13	23	5	8	2	✓	0,02	A B C
DHU020030X6R01	20	18	30	7	10	2	✓	0,05	D E F
DHU025035X7R01	25	21	35	8	12	2	✓	0,11	G H I
DHU032043X8R01	32	29	43	8	16	3	✓	0,21	G H I
DHU042043X8R01	42	29	43	8	16	4	✓	0,23	G H I

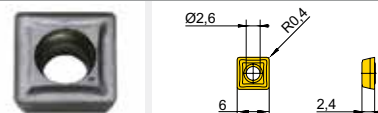
A SHLT060204N-PH



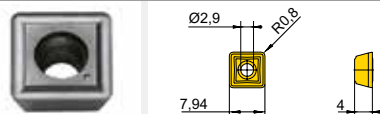
B SHGT060204-HP



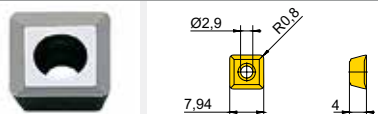
C SHLT060204N



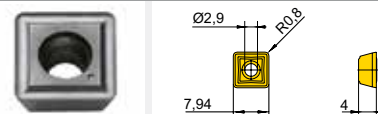
D SPLT07T308N-PH



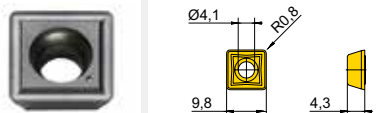
E SDGT07T308-HP



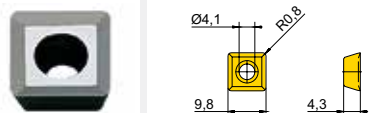
F SPLT07T308N



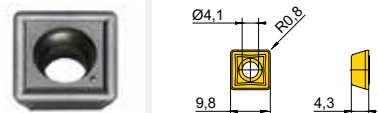
G SHLT090408N-PH1



H SHGT090408-HP



I SHLT090408N



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2005	IN2010	IN2530	IN6520			
SHLT060204N-PH ¹⁾	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 ¹⁾	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 ¹⁾	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									

¹⁾ Use IN6520 grade only for peripheral inserts / Le revêtement IN6520 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

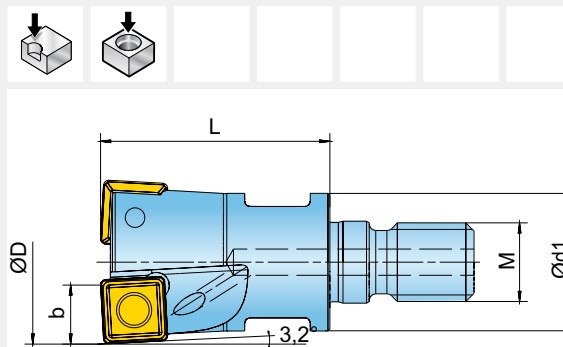


Diameter Range / Diamètres

16	SM22-052-00 (0,8Nm) DS-T07S
20	SM25-064-00 (1,1Nm) DS-T08S
25 - 42	SM35-088-60 (3,0Nm) DS-T10S

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

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	d1	L	b	M	Z	IK	kg	Related Insert Plaquette préconisée
DHU016023X5R00	16	13	23	5	8	2	✓	0,02	A B C
DHU020030X6R00	20	18	30	7	10	2	✓	0,05	D E F
DHU025035X7R00	25	21	35	8	12	2	✓	0,11	G H I
DHU032043X8R00	32	29	43	8	16	3	✓	0,21	G H I
DHU042043X8R00	42	29	43	8	16	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 Execution	Grade Nuance	IN10K	IN2005	IN2010	IN2530	IN6520			
SHLT060204N-PH ¹⁾	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 ¹⁾	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 ¹⁾	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									

¹⁾ Use IN6520 grade only for peripheral inserts / Le revêtement IN6520 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

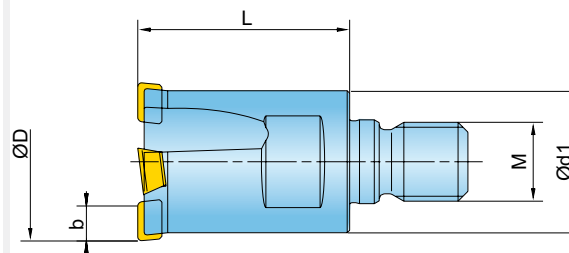


Diameter Range / Diamètres

16	SM22-052-00 (0,8Nm) DS-T07S
20	SM25-064-00 (1,1Nm) DS-T08S
25 - 42	SM35-088-60 (3,0Nm) DS-T10S

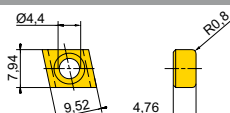
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

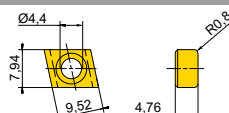


Designation Réf. de l'article	D	d1	L	b	M	Z	IK	kg
PHU025035X7R00	25	21,0	35	7	12	2		0,10
PHU025035X7R01	25	21,0	35	7	12	2	✓	0,10
PHU030043X8R00	30	29,4	43	7	16	3	✓	0,20
PHU032043X8R00	32	28,8	43	7	16	3		0,20
PHU032043X8R01	32	28,8	43	7	16	3	✓	0,20
PHU040043X8R00	40	29,4	43	7	16	4		0,30
PHU042043X8R00	42	29,0	43	7	16	4		0,30
PHU042043X8R01	42	29,0	43	7	16	4	✓	0,30

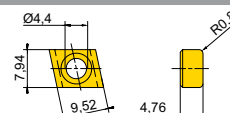
CDE313L021



CDE313L021 - J



CDE313L021T00



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2005	IN4015					
CDE313L021	0,10/0,25	positive geometry R0,8 / Géométrie positive R0,8		●							
CDE313L021 - J	0,10/0,25	positive steel geometry R0,8 / Géo. positive pour acier R0,8				●					
CDE313L021T00	0,10/0,20	positive geometry R0,8 / Géo. positive avec chan. d'arête R0,8			●						

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

①



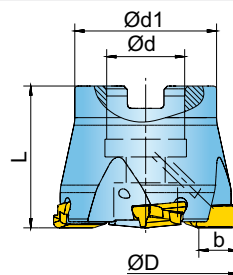
②



SM40-090-00 (4,5Nm) DS-T15S

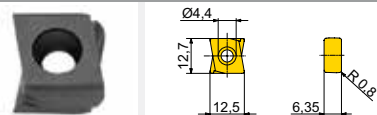
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

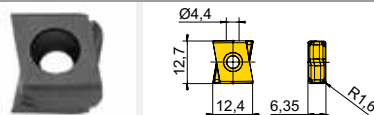


Designation Réf. de l'article	D	d	d1	LK	L	b	Z	IK	kg
SHU050040F1R51	50	22	40	-	40	10	4	✓	0,30
SHU052040F1R51	52	22	40	-	40	10	4	✓	0,30
SHU066050F2R51	66	27	48	-	50	10	5	✓	0,60
SHU080050F2R51	80	27	60	-	50	10	6	✓	1,00
SHU085050F2R51	85	27	60	-	50	10	6	✓	1,15
SHU100050F3R51	100	32	70	-	50	10	8	✓	1,50
SHU125063E5R50	125	40	90	-	63	10	9		2,40
SHU160063F8R50	160	40	120	66,7	63	10	12		4,60

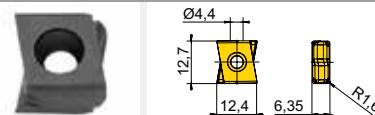
DPM324L116



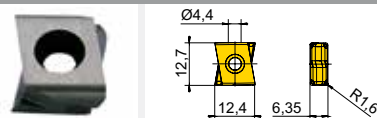
DPM324L050



DPM324L051



DPM324L050 - P



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2005	IN2035	IN4030	IN4040			
DPM324L116	0,10/0,20	positive geometry R0,8 / Géométrie positive R0,8									
DPM324L050	0,12/0,25	positive geometry R1,6 / Géométrie positive R1,6									
DPM324L051	0,15/0,25	positive geometry, K-land R1,6 / Géo. positive, chan. d'arête R 1,6									
DPM324L050 - P	0,10/0,25	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) DS-T15S

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

HIGH SPEED CUTTER / FRAISES GRANDES AVANCES

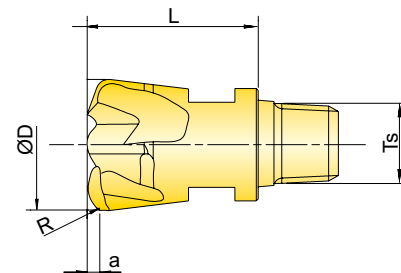
	D	a	Description	Code / Série	Page
	8 - 25	0,4 - 1,2	CHIP SURFER™ High feed cutter Z=4 / Z=6 Fraise grande avance Z=4 / Z=6	High feed cutter Z=4 / Z=6 Fraise grande avance Z=4/Z=6	198
	10 - 20	0,6 - 1,5	CHIP SURFER™ High feed cutter Z=2 Fraise grande avance Z=2	High feed cutter Z=2 Fraise grande avance Z=2	198
	10 - 25	5,7	HIPOS™ End Mill 12J1D..T Fraise en bout 12J1D..T	12J1D..T	199
	9,5 - 25	5,7	HIPOS™ End Mill 12J1D..W Fraise en bout 12J1D..W	12J1D..W	200
	10 - 35	5,7	HIPOS™ End Mill 12J1D..X Fraise en bout 12J1D..X	12J1D..X	201
	10 - 20	5,7	HIPOS™ End Mill 12J1D.. Fraise en bout 12J1D..	12J1D..	202
	32 - 40	5,7	HIPOS™ Shoulder-type Face Mill 2J1D Fraise à surfacer-dresser 2J1D	2J1D	203
	20 - 42	1	HFDOMINI™ High Feed Cutter 1DP1E Fraise grande avance 1DP1E	1DP1E	204
	40 - 66	1	HFDOMINI™ High Feed Cutter DP5E Fraise grande avance DP5E	DP5E	205
	16 - 42	1	HI FEED MINI™ High Feed Cutter 1TG1F..X Fraise grande avance 1TG1F..X	1TG1F..X	206
	16 - 40	1	HI FEED MINI™ High Feed Cutter 1TG1F..T/U Fraise grande avance 1TG1F..T/U	1TG1F..T/U	207
	32 - 85	1	HI FEED MINI™ High Feed Cutter TG1F Fraise grande avance TG1F	TG1F	208
	35 - 42	1,5	DIFEED DEKA™ Face Mill 1DP1G Fraise à surfacer grande avance 1DP1G	1DP1G	209
	50 - 160	1,5	DIFEED DEKA™ Face Mill DP5G Fraise à surfacer grande avance DP5G	DP5G	210

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

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

CHIP SURFER™ HIGH FEED CUTTER Z=4 / Z=6 FRAISE GRANDE-AVANCE Z=4 / Z=6

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance
IN2006

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



e8



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

Designation
Réf. de l'article

D L a R Ts Z

①



47A08001TQRA16	8	10	0,4	1,6	5	4
47A10001T6RA20	10	13	0,5	2	6	4
47A12001T8RA24	12	16,5	0,6	2,4	8	4
47A16001TRRA32	16	20,5	0,8	3,2	10	4
47A20001TSRA40	20	25,5	1	4	12	4
48A25001TURA36	25	37	1,2	3,6	15	6

WS-0043

WS-0029

WS-0030

WS-0044

WS-0059

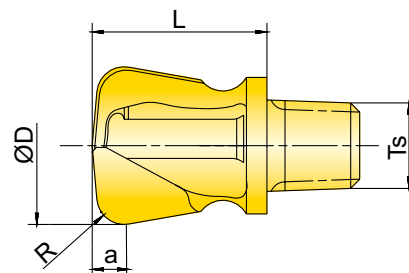
WS-0061

R (programming radius) / R (programmation rayon)

① = Wrench / Clé de serrage

CHIP SURFER™ HIGH FEED CUTTER Z=2 FRAISE GRANDE-AVANCE Z=2

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance
IN2005

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



h9



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

Designation
Réf. de l'article

D L a R Ts Z

①



45A10001T6RA20	10	12,5	0,6	2	6	2
45A12001T8RA25	12	11,1	1	2,5	8	2
45A16001TRRA30	16	20	1,1	3	10	2
45A20001TSRA30	20	17,5	1,5	3	12	2

WS-0029

WS-0030

WS-0044

WS-0059

R (programming radius) / R (programmation rayon)

① = Wrench / Clé de serrage

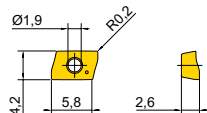
ADAPTION ACC. TO DIN 1835 A
ATTACHEMENT DIN 1835 A



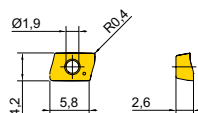
Designation Réf. de l'article	D	d	L	L1	a	Z		IK	kg
12J1D010016T1R00	10	10	55	16	5,7	2	10,0°	✓	0,03
12J1D012017T2R00	12	12	60	17	5,7	3	6,5°	✓	0,04
12J1D016019T3R00	16	16	90	19	5,7	4	4,0°	✓	0,11
12J1D020017T4R00	20	20	105	19	5,7	5	2,5°	✓	0,21
12J1D025065T4R00	25	20	115	65	5,7	7	2,0°	✓	0,24

Programming radius 1mm / Programmation - rayon 1mm

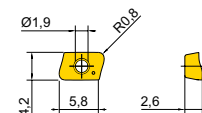
AOMT060202R



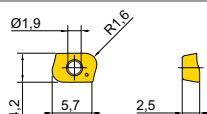
AOMT060204R



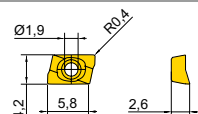
AOMT060208R



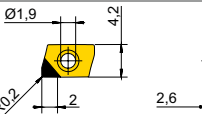
AOMT060216R



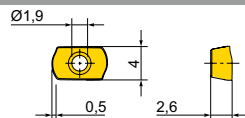
AOCT060204FR-P



AOMT060202R-DT1



UOMT0602TR



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN203S	IN250S	IN2530	IN653S	IN90D		
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									
AOMT060202R-DT1	0,05/0,12	with short PCD-tip R0,2 / avec insert PCD version courte R0,2									
UOMT0602TR	0,30/0,80	high feed geometry / Géométrie haute avance									

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

● = P ● = M ● = K ● = N ● = S ○ = H

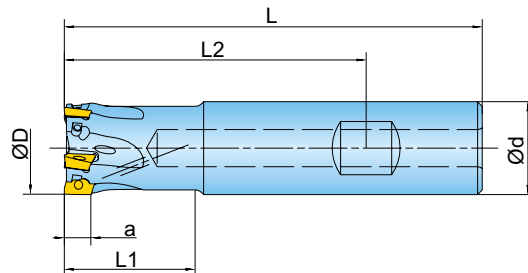
SPARE PARTS ACCESSOIRES



SM18-041-00 (0,5Nm) DS-TP06S (TX-Plus)

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

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



Designation Réf. de l'article	D	d	L	L1	L2	a	Z		IK	kg
12J1D010018W3R01	9,5	16	80	18	56	5,7	2	10,5°	✓	0,09
12J1D010018W3R00	10	16	80	18	56	5,7	2	10,0°	✓	0,09
12J1D012020W3R01	11,5	16	80	20	56	5,7	3	7,0°	✓	0,09
12J1D012020W3R00	12	16	80	20	56	5,7	3	6,5°	✓	0,09
12J1D014022W3R01	13,5	16	80	22	56	5,7	3	5,5°	✓	0,09
12J1D014022W3R00	14	16	80	22	56	5,7	3	5,2°	✓	0,09
12J1D016026W3R00	16	16	85	26	61	5,7	4	4,0°	✓	0,10
12J1D020030W4R00	20	20	90	30	65	5,7	5	2,5°	✓	0,17
12J1D025040W5R00	25	25	100	40	68	5,7	7	2,0°	✓	0,31

Programming radius 1mm / Programmation - rayon 1mm

AOMT060202R 	AOMT060204R 	AOMT060208R
AOMT060216R 	AOCT060204FR-P 	AOMT060202R-DT1
UOMT0602TR 		

Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2035	IN2505	IN2530	IN6535	IN90D		
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									
AOMT060202R-DT1	0,05/0,12	with short PCD-tip R0,2 / avec insert PCD version courte R0,2									
UOMT0602TR	0,30/0,80	high feed geometry / Géométrie haute avance									

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

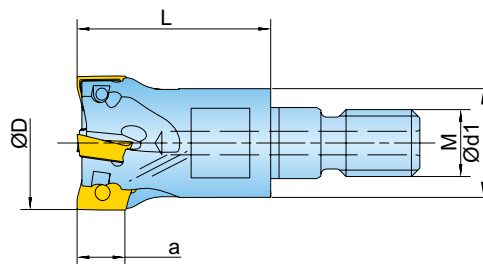
● = P ● = M ● = K ● = N ● = S ○ = H



SM18-041-00 (0,5Nm) DS-TP06S (TX-Plus)

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

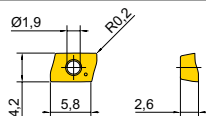
SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



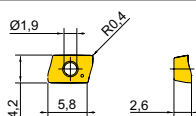
Designation Réf. de l'article	D	d1	L	a	M	Z			
12J1D010017X4R00	10	9,8	17	5,7	6	2	10°	✓	0,01
12J1D012023X4R00	12	11,8	23	5,7	6	3	6,5°	✓	0,02
12J1D015023X5R00	15	13	23	5,7	8	4	4,4°	✓	0,02
12J1D016023X5R00	16	13	23	5,7	8	4	4,0°	✓	0,03
12J1D020030X6R00	20	18	30	5,7	10	5	2,5°	✓	0,06
12J1D025035X7R00	25	21	35	5,7	12	7	2,0°	✓	0,10
12J1D030043X8R00	30	29	43	5,7	16	8	1,7°	✓	0,21
12J1D032043X8R00	32	29	43	5,7	16	8	1,6°	✓	0,22
12J1D035043X8R00	35	29	43	5,7	16	9	1,4°	✓	0,24

Programming radius 1mm / Programmation - rayon 1mm

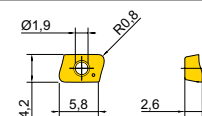
AOMT060202R



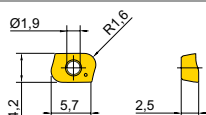
AOMT060204R



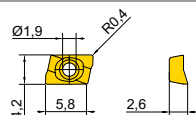
AOMT060208R



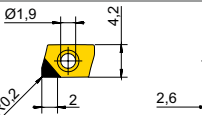
AOMT060216R



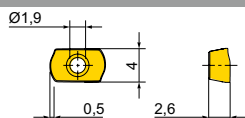
AOCT060204FR-P



AOMT060202R-DT1



UOMT0602TR



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2035	IN2505	IN2530	IN6535	IN90D	
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								
AOMT060202R-DT1	0,05/0,12	with short PCD-tip R0,2 / avec insert PCD version courte R0,2								
UOMT0602TR	0,30/0,80	high feed geometry / Géométrie haute avance								

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

● = P ● = M ● = K ● = N ● = S ○ = H

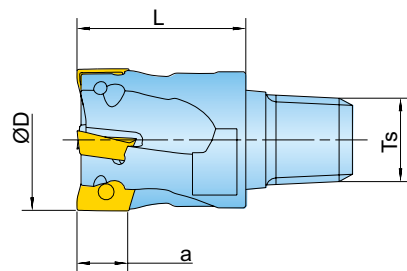
SPARE PARTS
ACCESSOIRES



SM18-041-00 (0,5Nm) DS-TP06S (TX-Plus)

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

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Designation Réf. de l'article	D	L	a	Ts	Z		kg
12J1D010016T6R00	10	16	5,7	6	2	10,0°	0,01
12J1D012017T8R00	12	17	5,7	8	3	6,5°	0,01
12J1D016019TRR00	16	19	5,7	10	4	4,0°	0,03
12J1D020022TSR00	20	22	5,7	12	5	2,5°	0,05

Programming radius 1mm / Programmation - rayon 1mm

AOMT060202R 	AOMT060204R 	AOMT060208R
AOMT060216R 	AOCT060204FR-P 	AOMT060202R-DT1
UOMT0602TR 		

Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2035	IN2505	IN2530	IN6535	IN90D		
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									
AOMT060216R¹⁾	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									
AOMT060202R-DT1	0,05/0,12	with short PCD-tip R0,2 / avec insert PCD version courte R0,2									
UOMT0602TR	0,30/0,80	high feed geometry / Géométrie haute avance									

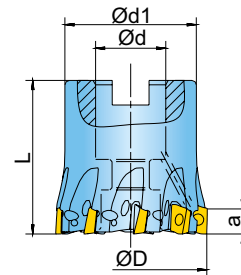
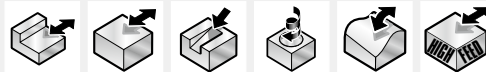
¹⁾Cutter body has to be modified / Modifier le corps de fraise

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES	①	②	③
Diameter Range / Diamètres			
10	SM18-041-00 (0,5Nm) DS-TP06S (TX-Plus)	WS-0029 (10,0Nm)	
12	SM18-041-00 (0,5Nm) DS-TP06S (TX-Plus)	WS-0030 (15,0Nm)	
16	SM18-041-00 (0,5Nm) DS-TP06S (TX-Plus)	WS-0044 (28,0Nm)	
20	SM18-041-00 (0,5Nm) DS-TP06S (TX-Plus)	WS-0059 (28,0Nm)	

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis ③ = Wrench / Clé de serrage

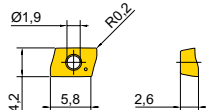
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



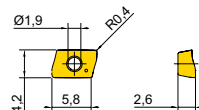
Designation Réf. de l'article	D	d	d1	L	a	Z			
2J1D032R00	32	16	30	32	5,7	8	1,6°	✓	0,11
2J1D035R00	35	16	30	35	5,7	9	1,4°	✓	0,14
2J1D040R00	40	22	38	40	5,7	10	1,2°	✓	0,22

Programming radius 1mm / Programmation - rayon 1mm

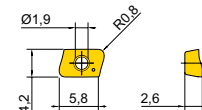
AOMT060202R



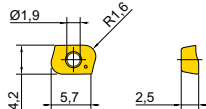
AOMT060204R



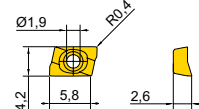
AOMT060208R



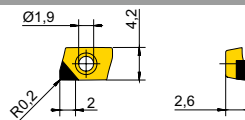
AOMT060216R



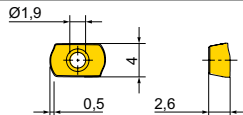
AOCT060204FR-P



AOMT060202R-DT1



UOMT0602TR



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN05S	IN2035	IN2505	IN2530	IN6535	IN90D		
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									
AOMT060202R-DT1	0,05/0,12	with short PCD-tip R0,2 / avec insert PCD version courte R0,2									
UOMT0602TR	0,30/0,80	high feed geometry / Géométrie haute avance									

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

● = P ● = M ● = K ● = N ● = S ○ = H

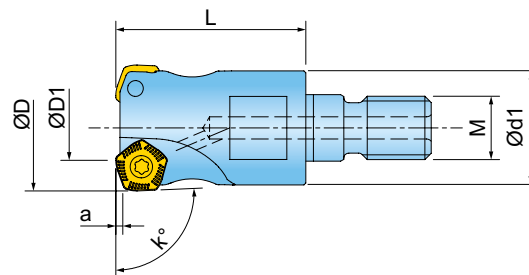
SPARE PARTS
ACCESSOIRES



SM18-041-00 (0,5Nm) DS-TP06S (TX-Plus)

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

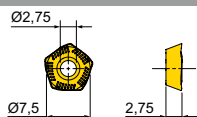
SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	D1	d1	L	κ	a	M	Z			
1DP1E020030X6R00	20	10,6	18	30	92	1	10	2	9,6°	✓	0,05
1DP1E025035X7R00	25	15,4	21	35	92	1	12	3	5,2°	✓	0,09
1DP1E032043X8R00	32	22,4	29	43	92	1	16	5	3,4°	✓	0,20
1DP1E035043X8R00	35	25,4	29	43	92	1	16	5	3,0°	✓	0,21
1DP1E040043X8R00	40	30,4	29	43	92	1	16	5	2,5°	✓	0,22
1DP1E042043X8R00	42	32,4	29	43	92	1	16	5	2,3°	✓	0,24

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

PEMT0502ZCTR-HR



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2035	IN2505	IN2530	IN6535				
PEMT0502ZCTR-HR	0,50/1,50	positive geometry / Géométrie positive									

● = P ● = M ● = K ● = N ● = S ○ = H

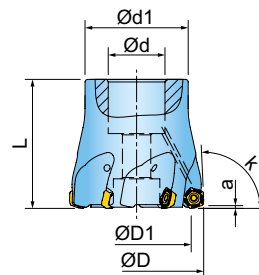
SPARE PARTS
ACCESSOIRES



SM25-064-00 (1,1Nm) DS-T08S

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

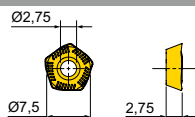
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	D1	d	d1	L	κ	α	Z		IK	kg
DP5E040R00	40	30,4	16	30	40	92	1	5	2,5°	✓	0,16
DP5E050R00	50	40,4	22	40	50	92	1	6	1,8°	✓	0,37
DP5E052R00	52	42,4	22	40	50	92	1	6	1,7°	✓	0,38
DP5E063R00	63	53,4	27	48	50	92	1	7	1,4°	✓	0,58
DP5E066R00	66	56,4	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 Execution	Grade Nuance	IN2035	IN2505	IN2530	IN6535				
PEMT0502ZCTR-HR	0,50/1,50	positive geometry / Géométrie positive									

● = P ● = M ● = K ● = N ● = S ○ = H

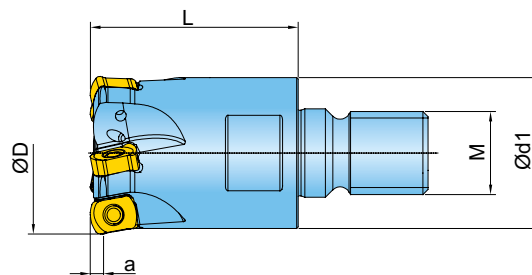
SPARE PARTS
ACCESSOIRES



SM25-064-00 (1,1Nm) DS-T08S

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

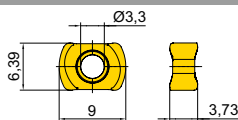
SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



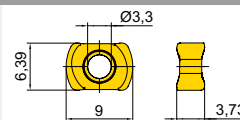
Designation Réf. de l'article	D	d1	L	a	M	Z	°	IK	kg
1TG1F016025X5R00	16	13	25	1	8	2	2°	✓	0,03
1TG1F020030X6R00	20	18	30	1	10	3	1,8°	✓	0,05
1TG1F025035X7R00	25	21	35	1	12	4	1,3°	✓	0,09
1TG1F030043X8R00	30	29	43	1	16	5	1°	✓	0,21
1TG1F032040X8R00	32	29	40	1	16	5	1°	✓	0,21
1TG1F035043X8R00	35	29	43	1	16	5	0,8°	✓	0,24
1TG1F035043X8R01	35	29	43	1	16	4	0,8°	✓	0,24
1TG1F042043X8R00	42	29	43	1	16	6	0,7°	✓	0,28
1TG1F042043X8R01	42	29	43	1	16	5	0,7°	✓	0,28

Programming radius 2mm / Programmation - rayon 2mm

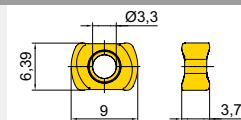
UNLU0603MOTR



UNLU0603MOTR-MM



UNLU0603MOTR-ML



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2035	IN2505	IN2530	IN7035				
UNLU0603MOTR	0,50/1,20	semi positive geometry / Géométrie positive									
UNLU0603MOTR-MM	0,50/1,00	positive geometry / Géométrie positive									
UNLU0603MOTR-ML	0,40/0,80	Inconel - Titan geometry / Géométrie Inconel - Titane									

● = P ● = M ● = K ● = N ● = S ○ = H

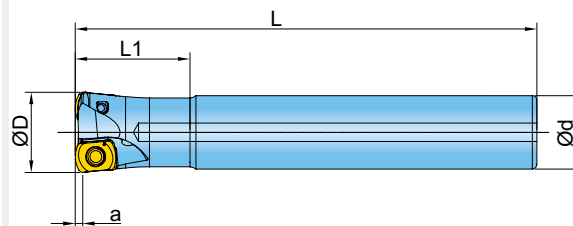
SPARE PARTS
ACCESSOIRES



SM25-064-01 (1,1Nm) DS-TP08S (TX-Plus)

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

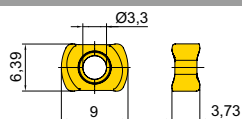
ADAPTION ACC. TO DIN 1835 A
ATTACHEMENT DIN 1835 A



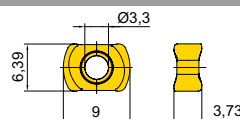
Designation Réf. de l'article	D	d	L	L1	a	Z			
1TG1F016030T3R00	16	16	100	30	1	2	2°	✓	0,14
1TG1F020050T4R00	20	20	130	50	1	3	1,8°	✓	0,26
1TG1F025060T5R00	25	25	140	60	1	4	1,3°	✓	0,44
1TG1F030070U7R00	30	32	150	70	1	5	1°	✓	0,76
1TG1F032070U7R00	32	32	150	70	1	5	1°	✓	0,81
1TG1F040090U7R00	40	32	150	40	1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

Programming radius 2mm / Programmation - rayon 2mm

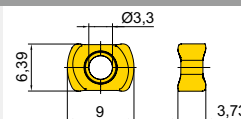
UNLU0603MOTR



UNLU0603MOTR-MM



UNLU0603MOTR-ML



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2035	IN2505	IN2530	IN7035				
UNLU0603MOTR	0,50/1,20	semi positive geometry / Géométrie positive									
UNLU0603MOTR-MM	0,50/1,00	positive geometry / Géométrie positive									
UNLU0603MOTR-ML	0,40/0,80	Inconel - Titan geometry / Géométrie Inconel - Titane									

● = P ● = M ● = K ● = N ● = S ○ = H

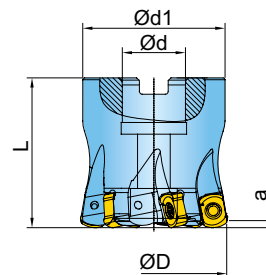
SPARE PARTS ACCESSOIRES



SM25-064-01 (1,1Nm) DS-TP08S (TX-Plus)

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

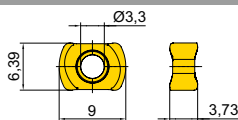
ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



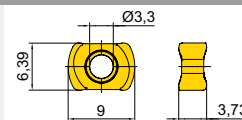
Designation Réf. de l'article	D	d	d1	L	a	Z			kg
TG1F032R00	32	16	30	40	1	5	1°	✓	0,12
TG1F040R00	40	22	38	40	1	6	0,8°	✓	0,19
TG1F042R00	42	22	38	40	1	6	0,7°	✓	0,25
TG1F050R00	50	22	45	50	1	7	0,6°	✓	0,39
TG1F052R00	52	22	40	50	1	7	0,6°	✓	0,37
TG1F063R00	63	22	48	50	1	8	0,5°	✓	0,67
TG1F066R00	66	27	48	50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

Programming radius 2mm / Programmation - rayon 2mm

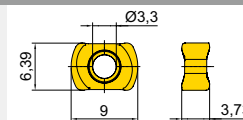
UNLU0603MOTR



UNLU0603MOTR-MM



UNLU0603MOTR-ML



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2035	IN2505	IN2530	IN7035				
UNLU0603MOTR	0,50/1,20	semi positive geometry / Géométrie positive									
UNLU0603MOTR-MM	0,50/1,00	positive geometry / Géométrie positive									
UNLU0603MOTR-ML	0,40/0,80	Inconel - Titan geometry / Géométrie Inconel - Titane									

● = P ● = M ● = K ● = N ● = S ○ = H

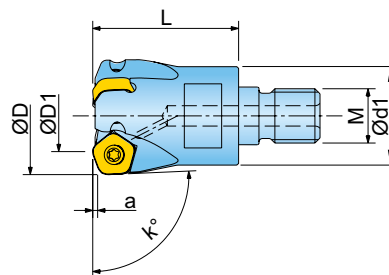
SPARE PARTS
ACCESSOIRES



SM25-064-01 (1,1Nm) DS-TP08S (TX-Plus)

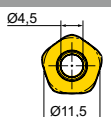
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

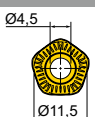


Designation Réf. de l'article	D	D1	d1	L	κ	a	M	Z			
1DP1G035043X8R00	35	21,5	29	43	92	1,5	16	3	0,1°	✓	0,21
1DP1G042043X8R00	42	28,5	29	43	92	1,5	16	4	0,2°	✓	0,24
Programming radius 4,5mm / Programmation - rayon 4,5mm											

PNCQ0804ZNTN



PNCT0804ZNN-HR



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2035	IN2505	IN4005	IN4030				
PNCQ0804ZNTN	0,50/2,50	neutral geometry, K-land / Géométrie neutre									
PNCT0804ZNN-HR	0,22/1,50	positive geometry / Géométrie positive									

● = P ● = M ● = K ● = N ● = S ○ = H

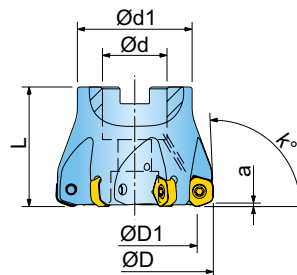
SPARE PARTS
ACCESSOIRES



SM40-093-20 (4,5Nm) DS-T15S

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

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	D1	d	d1	L	κ	a	Z			
DP5G050R00	50	36,5	22	40	50	92	1,5	5	0,2°	✓	0,37
DP5G052R00	52	38,5	22	40	50	92	1,5	5	0,6°	✓	0,40
DP5G063R00	63	49,4	27	48	50	92	1,5	6	0,7°	✓	0,58
DP5G066R00	66	52,4	27	48	50	92	1,5	6	0,7°	✓	0,65
DP5G080R00	80	66,4	27	60	50	92	1,5	7	0,7°	✓	1,10
DP5G100R00	100	86,4	32	70	55	92	1,5	8	0,7°	✓	1,75
DP5G125R00	125	111,4	40	90	55	92	1,5	10	0,9°		2,60
DP5G160R00	160	146,4	40	110	55	92	1,5	12	0,7°		3,50
Programming radius 4,5mm / Programmation - rayon 4,5mm											

PNCQ0804ZNTN				PNCT0804ZNN-HR							
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2035	IN2505	IN4005	IN4030				
PNCQ0804ZNTN	0,50/2,50	neutral geometry, K-land / Géométrie neutre									
PNCT0804ZNN-HR	0,22/1,50	positive geometry / Géométrie positive									
= P = M = K = N = S = H											

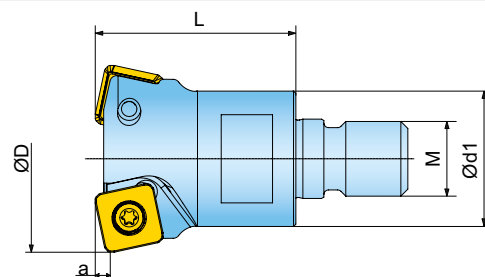
SPARE PARTS
ACCESSOIRES



SM40-093-20 (4,5Nm) DS-T15S

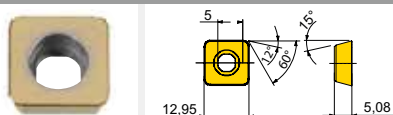
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ

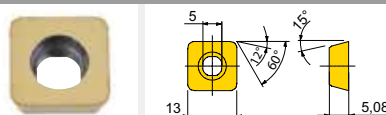


Designation Réf. de l'article	D	d1	L	a	M	Z		IK	kg
15M1P032043X8R00	32	29	43	2	16	2	10°	✓	0,17
15M1P035043X8R00	35	29	43	2	16	2	8°	✓	0,17
15M1P040043X8R00	40	29	43	2	16	3	5°	✓	0,19
15M1P042043X8R00	42	29	43	2	16	3	5°	✓	0,20
15M1P035043X8R01	35	29	43	2	16	2	8°	✓	0,17
15M1P042043X8R01	42	29	43	2	16	3	5°	✓	0,20

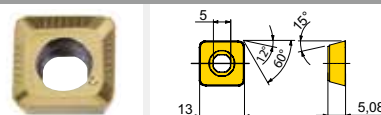
SDES1305MDR



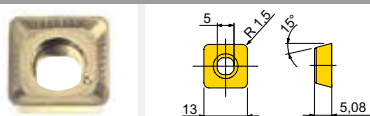
SDES1305MDR-001



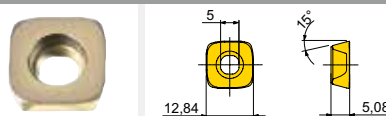
SDMS1305MDR-PH



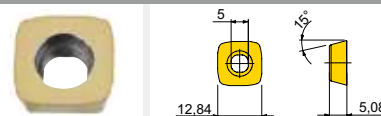
SDMS130515R-PH



SDES1305MPR



SDES1305MPR-001



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2505	IN4005	IN4030	IN4035				
SDES1305MDR ¹⁾	1,0/2,0	neutral geometry, chamfered / Géométrie neutre, renforcée	●								
SDES1305MDR-001 ¹⁾	1,0/2,0	neutral geometry, chamfered / Géométrie neutre, renforcée	●								
SDMS1305MDR-PH ¹⁾	0,8/1,5	positive geometry, chamfered / Géométrie positive, renforcée	●	●	●	●	●				
SDMS130515R-PH ¹⁾	0,8/1,5	positive geometry, chamfered R1,5 / Géométrie positive, renforcée R1,5	●	●	●	●	●				
SDES1305MPR ²⁾	1,0/2,5	neutral geometry convex, chamfered / Géométrie neutre convexe, renforcée	●	●	●	●	●				
SDES1305MPR-001 ²⁾	1,0/2,5	neutral geometry convex, sharp / Géométrie neutre convexe, vive	●	●	●	●	●				

¹⁾ Programming radius 3,2mm / Programmation - rayon 3,2mm; ²⁾ Programming radius 3,5mm / cutting depth 2,2mm / Cutter diameter 1mm smaller / Rayon de programmation 3,5mm / Prof. de passe 2,2 mm / Diamètre de fraise réduit de 1 mm

● = P ● = M ● = K ● = N ● = S ○ = H

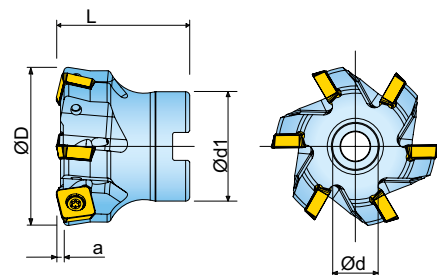
SPARE PARTS
ACCESSOIRES



SM40-100-R0 (4,5Nm) DS-A00T

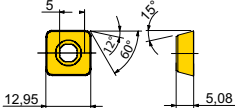
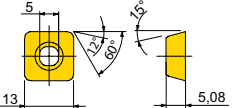
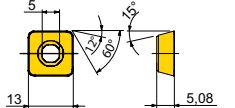
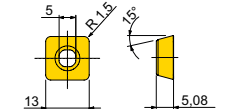
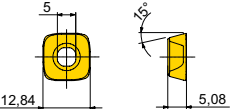
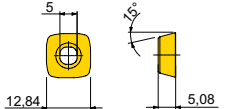
① = Insert screw / Vis de serrage plaquelette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



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

¹⁾ Narrow spacing / Pas réduit

SDES1305MDR		SDES1305MDR-001		SDMS1305MDR-PH							
											
SDMS130515R-PH		SDES1305MPR		SDES1305MPR-001							
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2505	IN4005	IN4030	IN4035				
SDES1305MDR ¹⁾	1,0/2,0	neutral geometry, chamfered / Géométrie neutre, renforcée									
SDES1305MDR-001 ¹⁾	1,0/2,0	neutral geometry, chamfered / Géométrie neutre, renforcée									
SDMS1305MDR-PH ¹⁾	0,8/1,5	positive geometry, chamfered / Géométrie positive, renforcée									
SDMS130515R-PH ¹⁾	0,8/1,5	positive geometry, chamfered R1,5 / Géométrie positive, renforcée R1,5									
SDES1305MPR ²⁾	1,0/2,5	neutral geometry convex, chamfered / Géométrie neutre convexe, renforcée									
SDES1305MPR-001 ²⁾	1,0/2,5	neutral geometry convex, sharp / Géométrie neutre convexe, vive									

¹⁾ Programming radius 3,2mm / Programmation - rayon 3,2mm; ²⁾ Programming radius 3,5mm / cutting depth 2,2mm / Cutter diameter 1mm smaller / Rayon de programmation 3,5mm / Prof. de passe 2,2 mm / Diamètre de fraise réduit de 1 mm

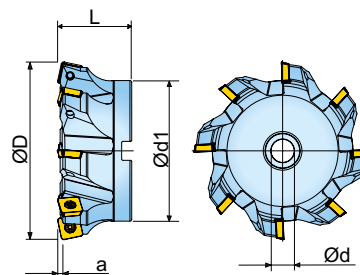
● = P ● = M ● = K ● = N ● = S ○ = H



SM40-100-R0 (4,5Nm) DS-A00T

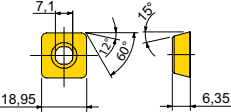
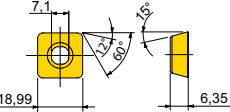
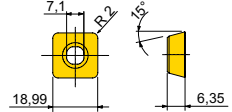
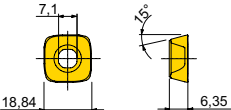
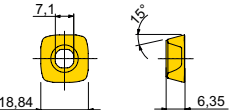
① = Insert screw / Vis de serrage plaque ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030



Designation Réf. de l'article	D	d	d1	LK	L	a	Z		IK	kg
5G6M080R00	80	27	70	-	55	3	5	3,5°	✓	1,01
5G5M080R00 ¹⁾	80	27	70	-	55	3	6	3,5°	✓	1,02
5G6M100R00	100	32	85	-	55	3	6	2,5°	✓	1,63
5G5M100R00 ¹⁾	100	32	85	-	55	3	8	2,5°	✓	1,62
5G6M125R00	125	40	100	-	63	3	7	1,5°	✓	2,84
5G5M125R00 ¹⁾	125	40	100	-	63	3	9	1,5°	✓	2,87
5G6M160R00	160	40	130	66,7	63	3	8	1°	✓	4,80
5G5M160R00 ¹⁾	160	40	130	66,7	63	3	10	1°	✓	4,82

¹⁾ Narrow spacing / Pas réduit

SDES1906MDR		SDMS1906MDR-PH		SDMS190620R-PH						
										
SDES1906MPR		SDES1906MPR-001								
										
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2505	IN4005	IN4030	IN4035			
SDES1906MDR ¹⁾	1,0/2,5	neutral geometry, chamfered / Géométrie neutre, renforcée								
SDMS1906MDR-PH ¹⁾	1,0/2,0	positive geometry, chamfered / Géométrie positive, renforcée								
SDMS190620R-PH ¹⁾	1,0/2,0	positive geometry, chamfered R2 / Géométrie positive, renforcée R2								
SDES1906MPR ²⁾	1,0/3,0	neutral geometry convex, chamfered / Géométrie neutre convexe, renforcée								
SDES1906MPR-001 ²⁾	1,0/3,0	neutral geometry convex, sharp / Géométrie neutre convexe, vive								

¹⁾ Programming radius 4,5mm / Programmation - rayon 4,5mm; ²⁾ Programming radius 5,5mm / cutting depth 3,7mm /
Cutter diameter 1,2mm smaller / Rayon de programmation 5,5mm / Prof. de passe 3,7 mm / Diamètre de fraise réduit de 1,2 mm

● = P ● = M ● = K ● = N ● = S ○ = H

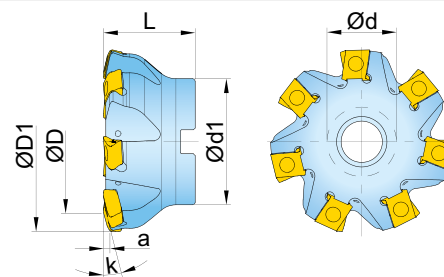
SPARE PARTS
ACCESSOIRES



SM60-135-R0 (8,0Nm) DS-T25T

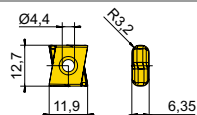
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

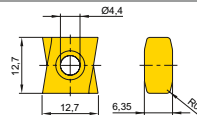


Designation Réf. de l'article	D	D1	d	d1	L	κ	a	Z			
SP5H040R00	40	57,3	16	45	40	13	3	5	0,5°	✓	0,46
SP5H050R00	50	67,7	22	45	40	13	3	6	0,5°	✓	0,59
SP5H063R00	63	80,9	22	55	40	13	3	7	0,5°	✓	0,90
SP5H080R00	80	98,2	27	70	50	13	3	9	0,5°	✓	1,85
SP5H100R00	100	118,4	32	85	50	13	3	11	0,5°	✓	2,70
SP5H125R00	125	143,5	40	100	63	13	3	13	0,5°	✓	4,90
Programming radius R3,5 / Programmation - rayon R3,5											

DPM324R004



DPM324R126



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2005	IN2515	IN2540					
DPM324R004	0,10/0,25	positive geometry R3,2 / Géométrie positive R3,2									
DPM324R126	0,50/1,50	positive finishing geometry / Géométrie positive de finition									

● = P ● = M ● = K ● = N ● = S ○ = H

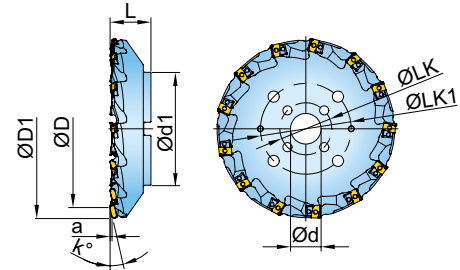
SPARE PARTS
ACCESSOIRES



SM40-120-20 (4,5Nm) DS-T15S

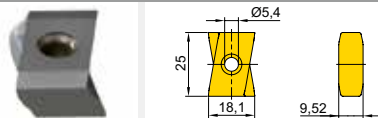
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 8030
ATTACHEMENT DIN 8030

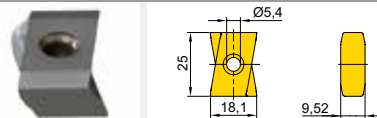


Designation Réf. de l'article	D	D1	d	d1	LK	LK1	L	κ	a	Z		kg
SP2L100R00	100	138,5	32	90	-	-	50	13	3,5	5	1,6°	2,80
SP2L125R00	125	163,5	40	100	-	-	63	13	3,5	6	1,35°	4,80
SP2L160R00	160	198,3	40	130	66,7	-	63	13	3,5	7	1°	7,20
SP2L200R00	200	238,3	60	160	101,6	-	63	13	3,5	9	0,8°	9,90
SP2L250R00	250	288,3	60	221	101,6	177,8	63	13	3,5	11	0,6°	15,50
SP2L315R00	315	353,3	60	221	101,6	177,8	80	13	3,5	13	-	27,70

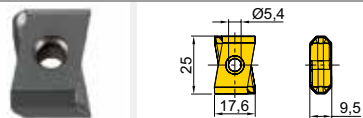
DPM436R105



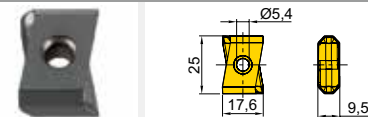
DPM436R105T11



DPM436R101



DPM436R101T12



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2505	IN2515	IN2530	IN2540				
DPM436R105	0,10/0,80	positive geometry / Géométrie positive									
DPM436R105T11	0,10/0,80	positive geometry, K-land / Géo. positive avec chan. d'arête									
DPM436R101	0,10/0,80	roughing geometry / Géométrie d'ébauche									
DPM436R101T12	0,10/0,80	stronger roughing geometry / Géométrie d'ébauche renforcée									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES



SM50-160-10 (6,0Nm) DS-T20S

PAR0629

① = Insert screw / Vis de serrage plaquelette ② = Screw driver / Tournevis ③ = Anvil / Butée

SOLID CARBIDE MILLING CUTTERS / FRAISES CARBURE MONOBLOC

	D	a	Description	Code / Série	Page
	8 - 20	5 - 15		High precision ball nose Cutter for aluminum Fraise hemispherique haute precision pour aluminium	222
	8 - 16	5 - 12		High precision ball nose Cutter Z=2 Fraise hemispherique haute precision Z=2	222
	8 - 20	5 - 15		High precision ball nose Cutter Z=3 fraise hemispherique haute precision Z=3	223
	6 - 20	5,5 - 15		High precision ball nose Cutter Z=4 Fraise hemispherique haute precision Z=4	223
	8 - 10	8 - 10		Ball nose cutters for roughing Fraise ebauche hemispherique haute precision	224
	8 - 16	8 - 16		Ball Nose Cutter for hard milling Fraise hemispherique haute precision pour matériaux durs	224
	10 - 20	7,5 - 15,5		High precision ball nose cutter spherical Fraise hemispherique haute precision	225
	10 - 20	0,6 - 1,5		High feed cutter Z=2 Fraise grande avance Z=2	225
	8 - 25	0,4 - 1,2		High feed cutter Z=4 / Z=6 Fraise grande avance Z=4 / Z=6	226
	7,8 - 16	7,5 - 15		Slot drill with corner radius Fraise a rainurer / percer / avec rayons	227
	8 - 16	7,5 - 15		Slot drill with corner radius hard milling Fraise a rainurier / percer / avec rayons pour matériaux durs	228
	10 - 20	7 - 11,3		Toric cutters with corner Fraise torique	229
	10 - 16	7 - 8		Toric cutter with corner radius hard milling Fraise torique pour matériaux durs	230
	8 - 16	4 - 9		Toric cutter with corner radius finishing Fraise torique pour finition matériaux durs	231

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

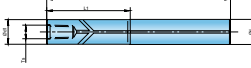
SOLID CARBIDE MILLING CUTTERS / FRAISES CARBURE MONOBLOC

	D	a	Description	Code / Série	Page
	8 - 25	5 - 22	CHIP SURFER™ HPC roughing / finishing geometry Geometrie HPC ebauche / finition		231
	8 - 25	5 - 22	CHIP SURFER™ HPC for Titanium / Inconel Geometrie HPC pour Titan / Inconell		232
	8 - 20	5,5 - 12,7	CHIP SURFER™ Roughing cutter for aluminum Fraise ebauche pour aluminum		232
	8 - 20	5 - 15	CHIP SURFER™ Roughing end mill Fraise en bout ebauche		233
	8 - 25	5 - 22	CHIP SURFER™ Roughing and finishing end mill Fraise en bout pour ebauche et finition		233
	8 - 12	5 - 9	CHIP SURFER™ End mill with corner radius for aluminum Z=2 Fraise en bout rayonnée pour aluminum Z=2		234
	8 - 20	5 - 12	CHIP SURFER™ End mill with corner radius for aluminum Z=2 Fraise en bout rayonnée pour aluminum Z=2		235
	7,7 - 19,7	4 - 12	CHIP SURFER™ Undersize end mill Fraise en bout sous-cotee		236
	8 - 16	5 - 12	CHIP SURFER™ End mill Z=3 Fraise en bout Z=3		236
	11 - 20	8,4 - 15	CHIP SURFER™ End mill with corner radius 30° Fraise en bout rayonnée a 30°		237
	6 - 20	5,5 - 15	CHIP SURFER™ End Mill with corner radius 45° Fraise en bout rayonnée a 45°		238
	10 - 20	7 - 15	CHIP SURFER™ Finishing cutter with corner radius 30° Fraise de finition rayonnée a 30°		239
	8 - 12	5 - 9	CHIP SURFER™ Finishing cutter with corner radius 45° Fraise de finition rayonnée a 450°		240
	9,4 - 15,7	0,9 - 2,2	CHIP SURFER™ Double chamfering head Fraise a chanfrein en bout et en Tirant		241

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

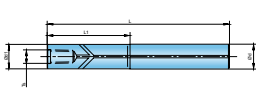
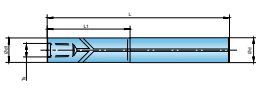
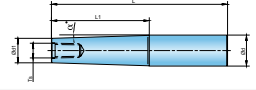
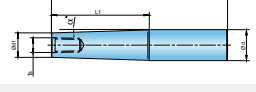
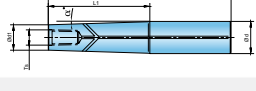
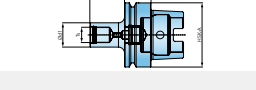
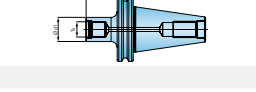
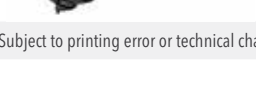


SOLID CARBIDE MILLING CUTTERS / FRAISES CARBURE MONOBLOC

	D	a	Description	Code / Série	Page
		8 - 20	3,7 - 5,9	CHIP•SURFER™ Countersinking and chamfering cutter 60° / 90° / 120° Fraise à Chanfreiner 60° / 90° / 120°	242
		1,95 - 5	4 - 7,5	CHIP•SURFER™ Chamfering cutter 45° Fraise à chanfreiner 45°	243
		5,8 - 8	7,5 - 7	CHIP•SURFER™ Concave radius milling cutter Frais rayonnée "Concave"	243
		10 - 16	5 - 8	CHIP•SURFER™ NC Center Drill Foret à Centrer	244
		3,28 - 6,46		CHIP•SURFER™ Centering drill according to DIN 332 Foret à centrer DIN 332	244
		8		CHIP•SURFER™ Engraving cutter Fraise pour gravure	245
		14,9		CHIP•SURFER™ Slot mill for chamfering 45° Z=3 Fraise à chanfreiner 45° Z=3	245
		18,3	1,5	CHIP•SURFER™ Slot mill for chamfering 45° Z=4 Fraise à chanfreiner 45° Z=4	246
		5,3	2,7	CHIP•SURFER™ Slot mill for chamfering Z=4 Fraise à chanfreiner Z=4	246
		15,7 - 17,7	1,5 - 3,17	CHIP•SURFER™ T-Slot cutter for O-ring grooves Z=3 Fraise à rainurer "T" Z=3	247
		21,7	0,76 - 4	CHIP•SURFER™ T-Slot cutter for O-ring grooves Z=4 Fraise à rainurer "T" Z=4	248
		7,7	0,7 - 2	CHIP•SURFER™ T-Slot cutter for O-ring grooves Z=4 Fraise à rainurer "T" Z=4	249
		13,5 - 27,7	2 - 10	CHIP•SURFER™ Slot mill with chamfer or corner radius Fraise à rainurer avec chanfrein ou rayon	250
				CHIP•SURFER™ Cylindrical steel shank Rallonge cylindrique en acier	251

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

SOLID CARBIDE MILLING CUTTERS / FRAISES CARBURE MONOBLOC

	D	a	Description	Code / Série	Page
			CHIP•SURFER™ Cylindrical carbide shank Rallonge cylindrique en carbure		252
			CHIP•SURFER™ Cylindrical heavy metal shank Rallonge cylindrique en metal lourd		253
			CHIP•SURFER™ Conical steel shank Rallonge conique en acier		254
			CHIP•SURFER™ Conical carbide shank Rallonge conique en carbure		255
			CHIP•SURFER™ Conical heavy metal shank Rallonge conique en metal lourd		256
			CHIP•SURFER™ HSK-A63 Adaption HSK-A63 mandrin porte fraise Chip-Surfer		257
			CHIP•SURFER™ DIN 69871-A40 Adaption DIN 69871-A40 mandrin porte fraise Chip-Surfer		257
			CHIP•SURFER™ Carbide Extension TS Extension TS		258
			CHIP•SURFER™ Extension for metric thread Extension pour filetage metrique		259
	2 - 20	4 - 20	SOLID•CARBIDE™ 2 Flute Ball Nose - Short Length Fraise hémisphérique serie courte-Z2		260
	2 - 10	3 - 8	SOLID•CARBIDE™ 2 Flute Ball Nose - Long Length Fraise hémisphérique serie courte-Z2		261
	3 - 20	8 - 50	SOLID•CARBIDE™ HPC rougher & finisher unequally spaced Z=4/Z=5 Fraise HPC ébauche & finition-Z4 ou Z5		262
	5 - 20	5 - 20	SOLID•CARBIDE™ 4-7 Flute Roughers - 1xD Fraise ébauche-1xD-Z4 à Z7		263
	5 - 20	10 - 40	SOLID•CARBIDE™ 4-7 Flute Roughers - 2xD fraise ébauche-2xD-Z4 à Z7		264

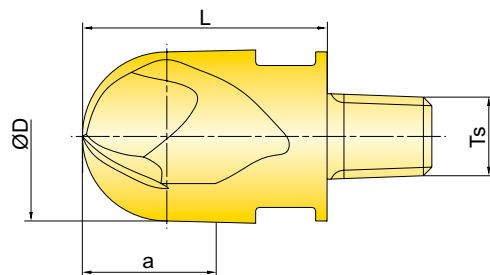
Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

SOLID CARBIDE MILLING CUTTERS / FRAISES CARBURE MONOBLOC

	D	a	Description	Code / Série	Page
	6 - 20	12 - 40	SOLID CARBIDE™	4-7 Flute Roughers - 3xD Fraise ébauche-3xD-Z4 à Z7	265
	8 - 16	12 - 24	SOLID CARBIDE™	4-5 Flute Roughers - 4xD Fraise ébauche-4xD-Z4 ou Z5	265
	6 - 25	14 - 52	SOLID CARBIDE™	4 Flute roughing and finishing Z=4 Fraise ebauche & finition-Z4	266
	2 - 20	7 - 38	SOLID CARBIDE™	3 Flute Slot Drill - DIN 6535HA Fraise en bout-Z3 - DIN 6535HA	267
	6 - 20	16 - 38	SOLID CARBIDE™	3 Flute Slot Drill - DIN 6535HB Fraise en bout-Z3 - DIN 6535HB	268
	6 - 20	24 - 60	SOLID CARBIDE™	4-6 Flute End Mill - Long Length Fraise en bout-série longue-Z4 ou Z6	268
	10 - 20	60 - 80	SOLID CARBIDE™	-6 Flute End Mill - extra long length Fraise en bout-série extra longue-Z4 ou Z6	269
	6 - 20	16 - 38	SOLID CARBIDE™	L6 Flute End Mill - medium length (finishing) Fraise en bout-finition-série moyenne-Z6	269
	6 - 25	26 - 92	SOLID CARBIDE™	6 Flute End Mill - Long Length (finishing) Fraise en bout-finition-série longue-Z6	270
	6 - 20	9 - 17	SOLID CARBIDE™	3 Flute End Mill short length (roughing) Fraise en bout-ébauche-série courte-Z3	271
	6 - 20	9 - 22	SOLID CARBIDE™	3 Flute End Mill long length (roughing) Fraise en bout-ébauche-série longue-Z3	272
	4 - 20	12 - 38	SOLID CARBIDE™	2 Flute Slot Drill - medium length Fraise a rainurer 2 helices- longueur moyenne	273
	5 - 20	14 - 38	SOLID CARBIDE™	3 Flute End Mill with corner radius Fraise torique-Z3	274
	3 - 12	30 - 75	SOLID CARBIDE™	4 Flute End Mill - extra long length Fraise en bout serie longue-Z4	275

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

FOR EXCHANGEABLE HEAD SYSTEM
 POUR SYSTÈME DE TÊTES INTERCHANGEABLES



Grade / Nuance

IN05S

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N_(K)

S_(M)

H_(PK)



e8



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

Designation
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45B08005TQRB10

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45B10007T6RB13

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WS-0029

45B12009T8RB17

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WS-0030

45B16012TRRB21

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WS-0044

45B20015TSRB26

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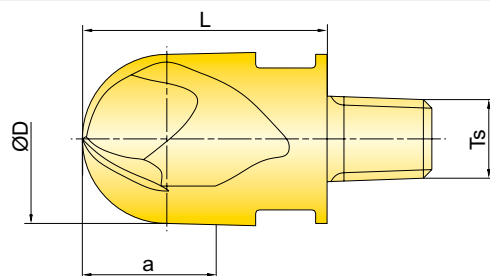
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WS-0059

Diamond-coating on request / revêtement diamant sur demande

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
 POUR SYSTÈME DE TÊTES INTERCHANGEABLES



Grade / Nuance

IN2005

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H_(PK)



e8



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

Designation
 Réf. de l'article

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45B08005TQRB10

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45B12009T8RB17

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45B16012TRRB21

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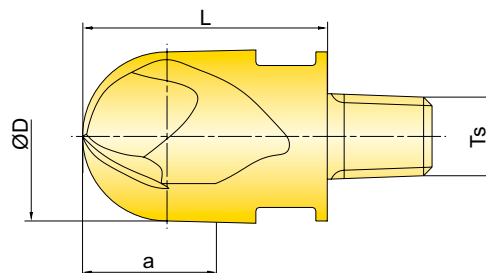
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WS-0044

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
 POUR SYSTEME DE TÊTES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(P/K)
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+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation

Réf. de l'article

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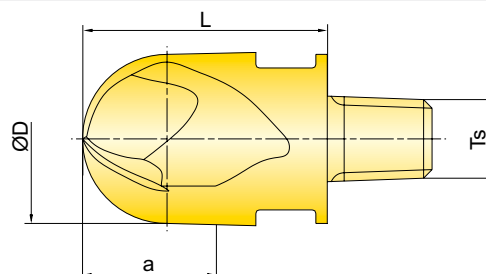
①



46B08005TQRB10	8	10	5	5	3	WS-0043
46B10007T6RB13	10	13	7	6	3	WS-0029
46B12009T8RB17	12	16,5	9	8	3	WS-0030
46B16012TRRB21	16	20,5	12	10	3	WS-0044
46B20015TSRB26	20	25,5	15	12	3	WS-0059

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
 POUR SYSTEME DE TÊTES INTERCHANGEABLES



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(P/K)
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e8



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

Designation

Réf. de l'article

D L a Ts Z

①

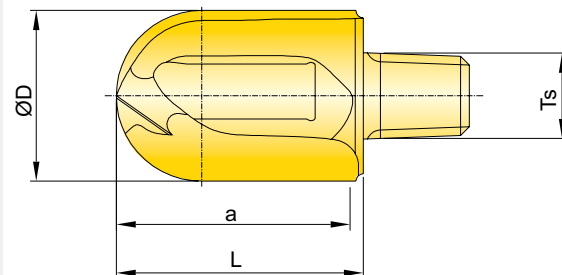


47B06005TQRB10 ¹⁾	6	10	5,5	5	4	WS-0043
47B08005TQRB10 ¹⁾	8	10	5	5	4	WS-0043
47B10007T6RB13 ¹⁾	10	13	7	6	4	WS-0029
47B12009T8RB17 ¹⁾	12	16,5	9	8	4	WS-0030
47B16012TRRB21 ¹⁾	16	20,5	12	10	4	WS-0044
47B20015TSRB26 ¹⁾	20	25,5	15	12	4	WS-0059

¹⁾ 4 flutes, 2 flutes center cutting / 4 dents, 2 dents coupe au centre

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)
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h9



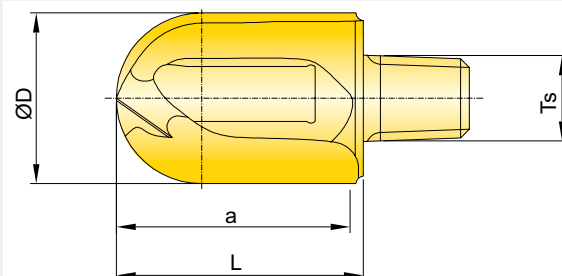
+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	L	a	Ts	Z	
45B08008TQRA10	8	10	8	5	2	WS-0043
45B10010T6RA12	10	12,4	10	6	2	WS-0029
45B12011T8RA15	12	15,3	12	8	2	WS-0030
45B16016TRRA19	16	19,1	16	10	2	WS-0044
45B10010T6RW12 ¹⁾	10	12,4	10	6	2	WS-0029

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

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)
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h7

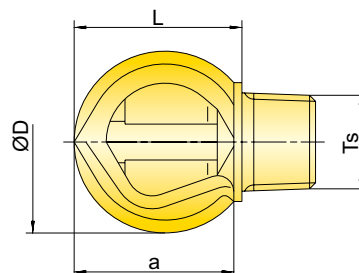


+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	L	a	Ts	Z	
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45B10010T6RW12	10	12,4	10	6	2	WS-0029
45B12011T8RW15	12	15,3	12	8	2	WS-0030
45B16016TRRW19	16	19,1	16	10	2	WS-0044

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TÊTES INTERCHANGEABLES



Grade / Nuance

IN2005

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

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

h7



Designation

Réf. de l'article

D L a Ts Z

①



45X10007TQRA10

10 10,1 7,5 5 2

WS-0043

45X12009T6RA12

12 11,65 9 6 2

WS-0030

45X16012T8RA15

16 15,4 12,5 8 2

WS-0044

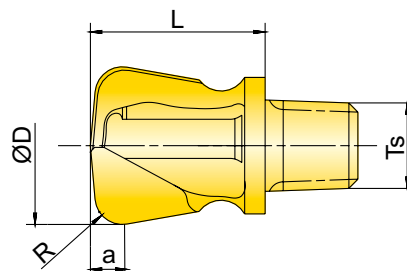
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WS-0044

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TÊTES INTERCHANGEABLES



Grade / Nuance

IN2005

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

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

h9



Designation

Réf. de l'article

D L a R Ts Z

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45A10001T6RA20

10 12,5 0,6 2 6 2

WS-0029

45A12001T8RA25

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WS-0030

45A16001TRRA30

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WS-0044

45A20001TSRA30

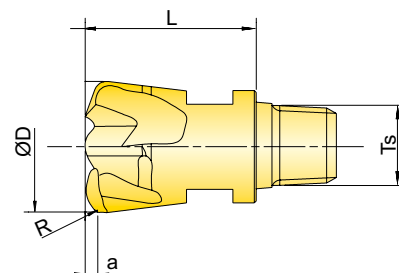
20 17,5 1,5 3 12 2

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

Designation

Réf. de l'article

D L a R Ts Z

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47A08001TQRA16	8	10	0,4	1,6	5	4
47A10001T6RA20	10	13	0,5	2	6	4
47A12001T8RA24	12	16,5	0,6	2,4	8	4
47A16001TRRA32	16	20,5	0,8	3,2	10	4
47A20001TSRA40	20	25,5	1	4	12	4
48A25001TURA36	25	37	1,2	3,6	15	6

WS-0043

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WS-0044

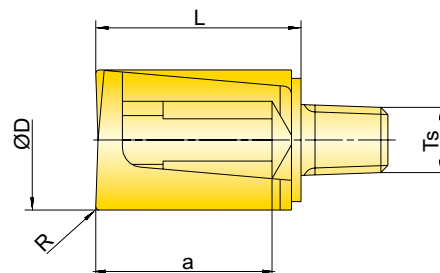
WS-0059

WS-0061

R (programming radius) / R (programmation rayon)

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

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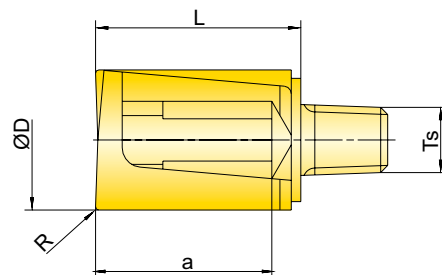


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Designation Réf. de l'article	D	L	a	R	Ts	Z	①
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45D08007TQRA10	8	10	7,5	1	5	2	WS-0043
45D08007TQRA20	8	10	7,5	2	5	2	WS-0043
45D08008TQRA04	8	10,2	8	0,4	5	2	WS-0043
45D09809T6RA03	9,8	12,4	9	0,3	6	2	WS-0029
45D10009T6RA04	10	12,4	9	0,4	6	2	WS-0029
45D10009T6RA10	10	12,4	9	1	6	2	WS-0029
45D10009T6RA20	10	12,4	9	2	6	2	WS-0029
45D11710T8RA03	11,7	14,2	10	0,3	8	2	WS-0030
45D12010T8RA04	12	14,2	10	0,4	8	2	WS-0030
45D12010T8RA10	12	14,2	10	1	8	2	WS-0030
45D12010T8RA20	12	14,2	10	2	8	2	WS-0030
45D14012T8RA04	14	15	12	0,4	8	2	WS-0030
45D15715TRRA03	15,7	19	15	0,3	10	2	WS-0044
45D16015TRRA04	16	19	15	0,4	10	2	WS-0044
45D16015TRRA08	16	19	15	0,8	10	2	WS-0044

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

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

Designation
Réf. de l'article

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WS-0029

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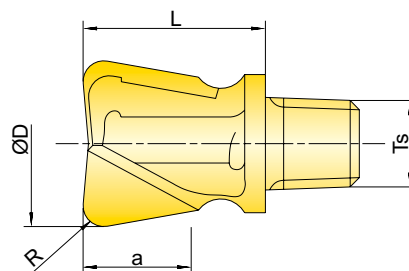
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WS-0044

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

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e8

h6

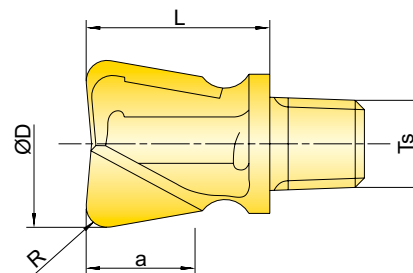


+ Preferred choice / Premier choix O Second choice / Second choix

Artikel-Nr.	D	L	a	R	Ts	Z	
45U10008T6RA05	10	12,4	7	0,5	6	2	WS-0029
45U10008T6RA10	10	12,4	7	1	6	2	WS-0029
45U10006T6RA20	10	12,6	6	2	6	2	WS-0029
45U10006T6RA30	10	12,6	6	3	6	2	WS-0029
45U12006T6RA30	12	9,1	5,7	3	6	2	WS-0029
45U12006T6RA40	12	9,1	5,7	4	6	2	WS-0029
45U12006T8RA10	12	11,1	6	1	8	2	WS-0030
45U12006T8RA16	12	11,1	6,3	1,6	8	2	WS-0030
45U12006T8RA20	12	11,1	6,2	2	8	2	WS-0030
45U12006T8RA25	12	11,1	6,1	2,5	8	2	WS-0030
45U12006T8RA30	12	11,1	6,1	3	8	2	WS-0030
45U12006T8RA40	12	11,1	5,9	4	8	2	WS-0030
45U16007TRRA20	16	13,1	7	2	10	2	WS-0044
45U16007TRRA30	16	13,4	7	3	10	2	WS-0044
45U16007TRRA40	16	13,4	7	4	10	2	WS-0044
45U16008TRRA50	16	20,2	8	5	10	2	WS-0044
45U20011TSRA30	20	17	11,1	3	12	2	WS-0059
45U20011TSRA40	20	17,4	11,5	4	12	2	WS-0059
45U20011TSRA50	20	17,4	11,5	5	12	2	WS-0059
45U20011TSRA60	20	17,4	11,4	6	12	2	WS-0059
45U20011TSRA80	20	17,4	11,3	8	12	2	WS-0059

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
 POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance
 IN2006

P M K N S H
 + + +

h9

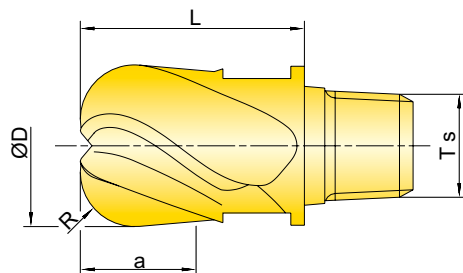


+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	L	a	R	Ts	Z	①
45U10008T6RA05	10	12,4	7	0,5	6	2	WS-0029
45U10008T6RA10	10	12,4	7	1	6	2	WS-0029
45U10006T6RA20	10	12,6	6	2	6	2	WS-0029
45U10006T6RA30	10	12,6	6	3	6	2	WS-0029
45U12006T8RA16	12	11,1	6,3	1,6	8	2	WS-0030
45U12006T8RA20	12	11,1	6,2	2	8	2	WS-0030
45U12006T8RA30	12	11,1	6,1	3	8	2	WS-0030
45U12006T8RA40	12	11,1	5,9	4	8	2	WS-0030
45U16008TRRA50	16	20,2	8	5	10	2	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)

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



e8



Designation

Réf. de l'article

D

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48U08004TQRB20

8

10

4

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WS-0043

48U10005T6RB30

10

13

5

3

6

6

WS-0029

48U12007T8RB40

12

16,5

7

4

8

6

WS-0030

48U16009TRRB50

16

20,5

9

5

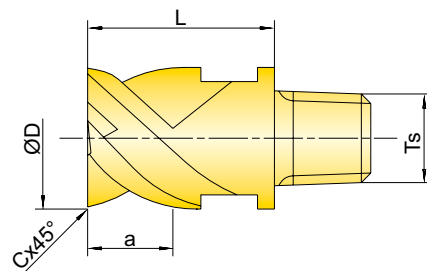
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6

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)

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



e8



Designation

Réf. de l'article

D

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Ts

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①



47C08005TQRQ03

8

10

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0,3

5

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WS-0043

47C10007T6RQ04

10

13

7

0,4

6

4

WS-0029

47C12009T8RQ05

12

16,5

9

0,5

8

4

WS-0030

47C16012TRRQ06

16

20,5

12

0,6

10

4

WS-0044

47C20015TSRQ06

20

25,5

15

0,6

12

4

WS-0059

47C25022TURQ06

25

37

22

0,6

15

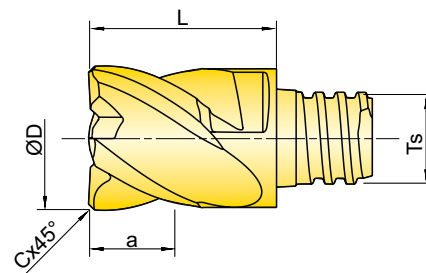
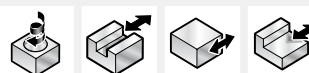
4

WS-0061

unequally spaced / espacement inégal

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN1005

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

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



Designation
Réf. de l'article

D L a C Ts Z

①



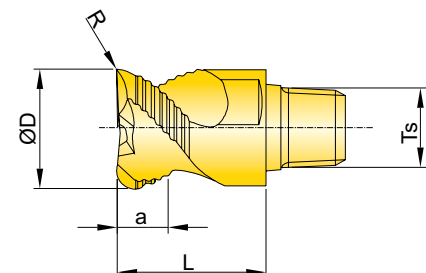
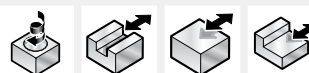
47C08005TQRQ03	8	10	5	0,3	5	5	WS-0043
47C10007T6RQ04	10	13	7	0,4	6	5	WS-0029
47C12009T8RQ05	12	16,5	9	0,5	8	5	WS-0030
47C16012TRRQ06	16	20,5	12	0,6	10	5	WS-0044
47C20015TSRQ06	20	25,5	15	0,6	12	5	WS-0059
47C25022TURQ06	25	37	22	0,6	15	5	WS-0061

unequally spaced / espacement inégal

① = Wrench / Clé de serrage

CHIP SURFER™ ROUGHING CUTTER FOR ALUMINUM
FRAISE EBAUCHE POUR ALUMINUM

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 O Second choice / Second choix

△ e8



Designation
Réf. de l'article

D L a R Ts Z

①

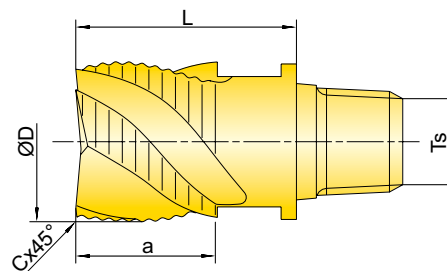


46D08005TQRN02	8	10	5,5	0,2	5	3	WS-0043
46D10006T6RN02	10	13	6,5	0,2	6	3	WS-0029
46D12008T8RN02	12	16,5	8,5	0,2	8	3	WS-0030
46D16010TRRN02	16	20,5	10,7	0,2	10	3	WS-0044
46D20012TSRN02	20	25,5	12,7	0,2	12	3	WS-0059

Diamond coating on request / revêtement diamant sur demande

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)

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

△ e8

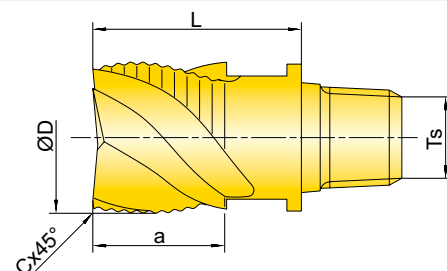
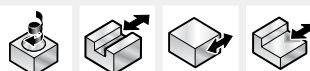


Designation Réf. de l'article	D	L	a	C	Ts	Z	
47C08005TQRN03	8	10,3	5	0,3	5	4	WS-0043
47C10007T6RN03	10	13	7	0,35	6	4	WS-0029
47C12009T8RN03	12	16,5	9	0,35	8	4	WS-0030
47C16012TRRN04 ¹⁾	16	20,5	12	0,4	10	5	WS-0044
48C20015TSRN04 ¹⁾	20	25,5	15	0,4	12	6	WS-0059

¹⁾ no center cut / Pas de coupe au centre

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)

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

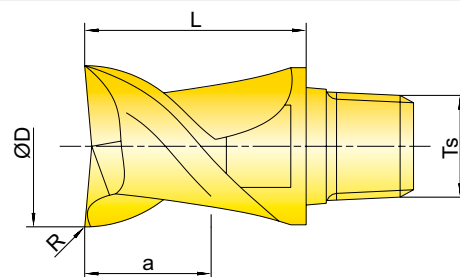
△ e8



Designation Réf. de l'article	D	L	a	C	Ts	Z	Zs	
47C08005TQRU03	8	10	5	0,3	5	4	2	WS-0043
47C10007T6RU03	10	13	7	0,3	6	4	2	WS-0029
47C12009T8RU04	12	16,5	9	0,4	8	4	2	WS-0030
47C16012TRRU06	16	20,5	12	0,6	10	4	2	WS-0044
47C20015TSRU06	20	25,5	15	0,6	12	4	2	WS-0059
47C25022TURU06	25	37	22	0,6	15	4	2	WS-0061

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN05S

P

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S_(M)

H_(PK)



e8



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

Designation

Réf. de l'article

D

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Ts

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①



45D08005TQRD05

8

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WS-0043

45D10007T6RD05

10

13

7

0,5

6

2

WS-0029

45D10007T6RD10

10

13

7

1

6

2

WS-0029

45D12009T8RD05

12

16,5

9

0,5

8

2

WS-0030

45D12009T8RD10

12

16,5

9

1

8

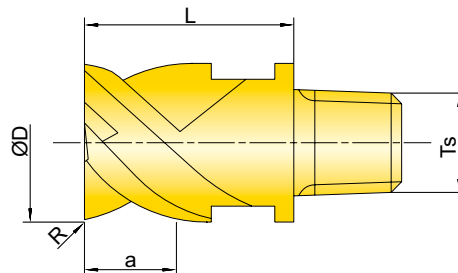
2

WS-0030

Diamond coating on request / revêtement diamant sur demande

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN05S

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

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e8



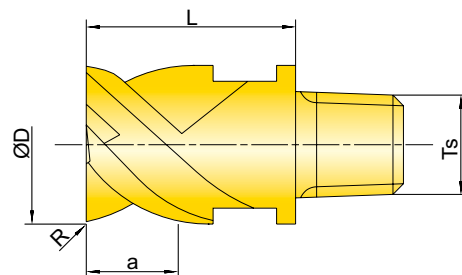
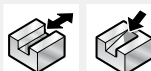
+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	L	a	R	Ts	Z	①
46D08005TQRD05	8	10	5	0,5	5	3	WS-0043
46D10007T6RD05	10	13	7	0,5	6	3	WS-0029
46D10007T6RD10	10	13	7	1	6	3	WS-0029
46D12008T8RD05	12	16,5	8	0,5	8	3	WS-0030
46D12008T8RD10	12	16,5	8	1	8	3	WS-0030
46D12008T8RD30	12	16,5	8	3	8	3	WS-0030
46J16010TRRD21	16	20,5	10	-	10	3	WS-0044
46D16010TRRD10	16	20,5	10	1	10	3	WS-0044
46D16010TRRD20	16	20,5	10	2	10	3	WS-0044
46D16010TRRD30	16	20,5	10	3	10	3	WS-0044
46D16010TRRD40	16	20,5	10	4	10	3	WS-0044
46D20012TSRD05	20	25,5	12	0,5	12	3	WS-0059
46D20012TSRD10	20	25,5	12	1	12	3	WS-0059
46D20012TSRD20	20	25,5	12	2	12	3	WS-0059
46D20012TSRD30	20	25,5	12	3	12	3	WS-0059
46D20012TSRD40	20	25,5	12	4	12	3	WS-0059

Diamond coating on request / revêtement diamant sur demande

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)

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



e8



Designation
Réf. de l'article

D L a R Ts Z

①

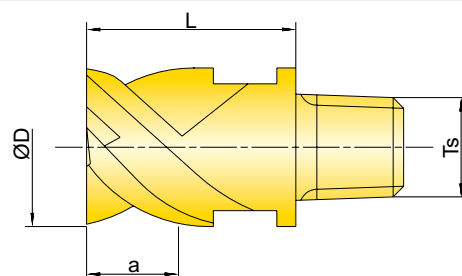


46D07704TQRC02	7,7	10	4	0,2	5	3
46D09705T6RC03	9,7	13	5	0,3	6	3
46D11707T8RC03	11,7	16,5	7	0,3	8	3
46D15708TRRC03	15,7	20,5	8	0,3	10	3
46D19712TSRC04	19,7	25,5	12	0,4	12	3

WS-0043
WS-0029
WS-0030
WS-0044
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)

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



e8



Designation
Réf. de l'article

D L a Ts Z

①

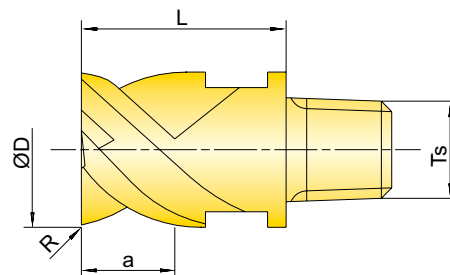
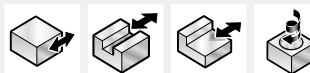


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46J10007T6RD13	10	13	7	6	3
46J12009T8RD17	12	16,5	9	8	3
46J16012TRRD21	16	20,5	12	10	3

WS-0043
WS-0029
WS-0030
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)
+ + + + O

△ e8

λ = 30°

454 HRC

4%

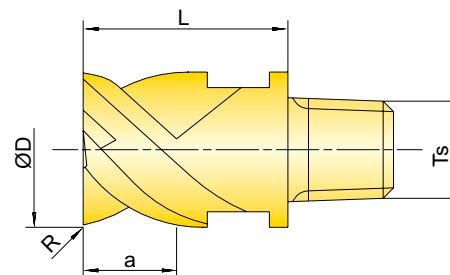
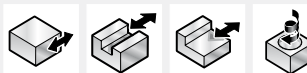


+ Preferred choice / Premier choix O Second choice / Second choix

Designation Réf. de l'article	D	L	a	R	Ts	Z	①
47C11008T6RB02	11	16,5	8,4	-	6	4	WS-0029
47D12009T8RB05	12	16,5	9	0,5	8	4	WS-0030
47D12009T8RB10	12	16,5	9	1	8	4	WS-0030
47C14011T8RB02	14	28	11,5	-	8	4	WS-0030
47D16012TRRB05	16	20,5	12	0,5	10	4	WS-0044
47D16012TRRB10	16	20,5	12	1	10	4	WS-0044
47D16012TRRB15	16	20,5	12	1,5	10	4	WS-0044
47D16012TRRB20	16	20,5	12	2	10	4	WS-0044
47D16012TRRB30	16	20,5	12	3	10	4	WS-0044
47D16012TRRB40	16	20,5	12	4	10	4	WS-0044
47D20015TSRB05	20	25,5	15	0,5	12	4	WS-0059
47D20015TSRB10	20	25,5	15	1	12	4	WS-0059
47D20015TSRB20	20	25,5	15	2	12	4	WS-0059
47D20015TSRB30	20	25,5	15	3	12	4	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)
+ + + + ○



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

Designation
Réf. de l'article

D L a R Ts Z

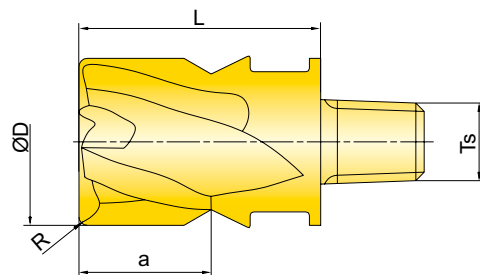
①



47J06005TQRD10	6	10	5,5	-	5	4	WS-0043
47J08005TQRD10	8	10	5	-	5	4	WS-0043
47D08005TQRD05	8	10	5	0,5	5	4	WS-0043
47D08005TQRD10	8	10	5	1	5	4	WS-0043
47D08005TQRD15	8	10	5	1,5	5	4	WS-0043
47J10007T6RD13	10	13	7	-	6	4	WS-0029
47D10007T6RD05	10	13	7	0,5	6	4	WS-0029
47D10007T6RD10	10	13	7	1	6	4	WS-0029
47J12009T8RD17	12	16,5	9	-	8	4	WS-0030
47D12009T8RD05	12	16,5	9	0,5	8	4	WS-0030
47D12009T8RD10	12	16,5	9	1	8	4	WS-0030
47J16012TRRD21	16	20,5	12	-	10	4	WS-0044
47D16012TRRD05	16	20,5	12	0,5	10	4	WS-0044
47D16012TRRD10	16	20,5	12	1	10	4	WS-0044
47D16012TRRD15	16	20,5	12	1,5	10	4	WS-0044
47D16012TRRD20	16	20,5	12	2	10	4	WS-0044
47D16012TRRD30	16	20,5	12	3	10	4	WS-0044
47D16012TRRD40	16	20,5	12	4	10	4	WS-0044
47J20015TSRD26	20	25,5	15	-	12	4	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)
+ + + + +



e8

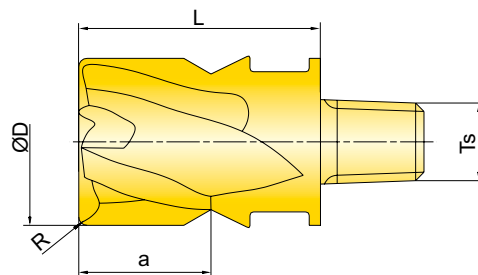


+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	L	a	R	Ts	Z	①
48D10007T6RB05	10	13	7	0,5	6	6	WS-0029
48D10007T6RB10	10	13	7	1	6	6	WS-0029
48D10007T6RB15	10	13	7	1,5	6	6	WS-0029
48D12009T8RB05	12	16,5	9	0,5	8	6	WS-0030
48D12009T8RB10	12	16,5	9	1	8	6	WS-0030
48D16012TRRB05	16	20,5	12	0,5	10	8	WS-0044
48D16012TRRB10	16	20,5	12	1	10	8	WS-0044
48D16012TRRB16	16	20,5	12	1,6	10	8	WS-0044
48D16012TRRB20	16	20,5	12	2	10	8	WS-0044
49D20015TSRB10	20	25,5	15	1	12	10	WS-0059
49D20015TSRB20	20	25,5	15	2	12	10	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)
+ + + + +



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

Designation
Réf. de l'article

D L a R Ts Z

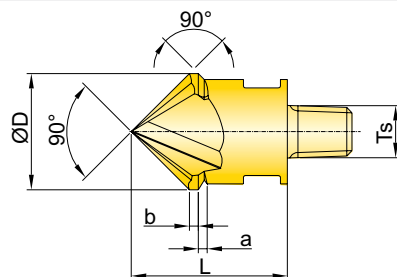
①



48D08005TQRD05	8	10	5	0,5	5	6	WS-0043
48D08005TQRD10	8	10	5	1	5	6	WS-0043
48D08005TQRD15	8	10	5	1,5	5	6	WS-0043
48J10007T6RD13	10	13	7	-	6	6	WS-0029
48D10007T6RD05	10	13	7	0,5	6	6	WS-0029
48D10007T6RD10	10	13	7	1	6	6	WS-0029
48D10007T6RD15	10	13	7	1,5	6	6	WS-0029
48J12009T8RD17	12	16,5	9	-	8	6	WS-0030
48D12009T8RD05	12	16,5	9	0,5	8	6	WS-0030
48D12009T8RD10	12	16,5	9	1	8	6	WS-0030
48D12009T8RD15	12	16,5	9	1,5	8	6	WS-0030

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P

M

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N_(K)

S_(M)

H_(PK)

+

+

+

○

+

○



h9



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

Designation

Réf. de l'article

D

L

a

b

Ts

Z

①



46N09409TQRA45

9,4

12,5

0,9

1

5

3

WS-0043

45N09809TQRA45

9,8

10,8

0,9

2,5

5

2

WS-0043

46N11610T6RA45

11,6

16,5

1

1

6

3

WS-0029

45N11814T6RA45

11,8

12

1,1

2

6

2

WS-0030

45N15722T8RA45

15,7

14

2,2

2

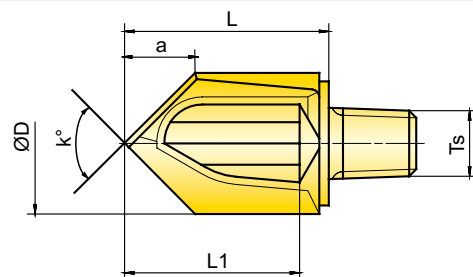
8

2

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)

○

z9



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

Designation
Réf. de l'article

D

L

L1

κ

a

Ts

Z

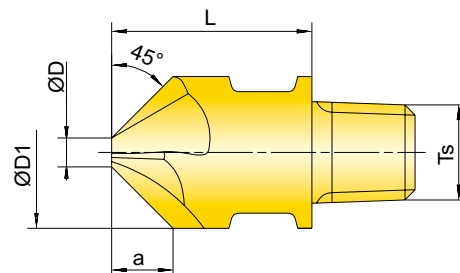
①



45N08007TQRA45	8	9,75	7	90	3,7	5	2	WS-0043
45N08307TQRA45	8,3	10	7,5	90	3,8	5	2	WS-0043
45M10009T6RA30	10	11,75	9,5	60	7,8	6	2	WS-0029
45N10009T6RA45	10	11,75	9	90	4,5	6	2	WS-0029
45P10009T6RA60	10	12,7	9,5	120	2,7	6	2	WS-0029
45N10409T6RA45	10,4	11,75	9	90	4,7	6	2	WS-0029
45M12012T8RA30	12	15,2	12	60	9,3	8	2	WS-0030
45N12012T8RA45	12	15,5	12	90	5,5	8	2	WS-0030
45P12012T8RA60	12	15,2	12	120	3,5	8	2	WS-0030
45N12412T8RA45	12,4	15,5	12	90	5,7	8	2	WS-0030
45M16015TRRA30	16	20,3	15	60	12,7	10	2	WS-0044
45N16015TRRA45	16	18,8	15	90	7,5	10	2	WS-0044
45P16015TRRA60	16	19,9	15,5	120	4,4	10	2	WS-0044
45N16515TRRA45	16,5	18,8	15	90	7,5	10	2	WS-0044
45M20018TSRA30	20	24,7	18,5	60	15,5	12	2	WS-0059
45N20018TSRA45	20	24,7	18,5	90	7,7	12	2	WS-0059
45P20018TSRA60	20	21,1	14,9	120	5,9	12	2	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



e8



Designation

Réf. de l'article

D

D1

L

a

Ts

Z

①



47N10004T6RA45

1,95

10

13

4

6

4

WS-0029

47N12005T8RA45

1,95

12

16,5

5

8

4

WS-0030

48N16006TRRA45

3

16

20,5

6,5

10

6

WS-0044

48N20007TSRA45

5

20

25,5

7,5

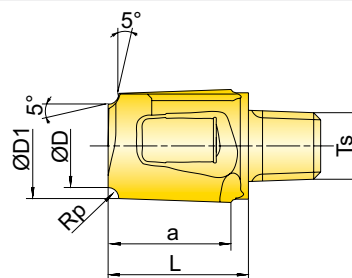
12

6

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



h10



Designation

Réf. de l'article

D

D1

L

a

Rp

Ts

Z

①



45R08007TQRA10

5,8

8

10,6

7,5

1

5

2

WS-0043

45R10009T6RA16

6,8

10

12,5

9,5

1,6

6

2

WS-0029

45R10009T6RA20

6

10

12,5

9,5

2

6

2

WS-0029

45R10009T6RA25

5,1

10

12,5

9,5

2,5

6

2

WS-0029

45R12012T8RA30

6,5

12,7

15,6

12

3

8

2

WS-0030

45R12012T8RA40

4,7

12,7

15,6

12

4

8

2

WS-0030

45R16015TRRA50

6,2

16

19,1

15

5

10

2

WS-0044

45R20007TSRA60

8

20

17,4

7

6

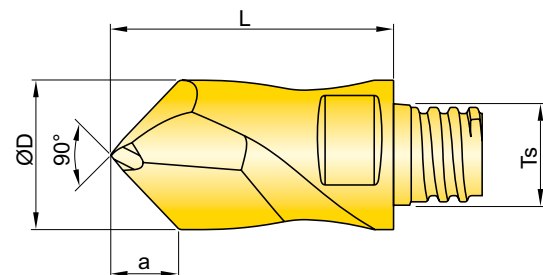
12

2

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)
+ + + + +

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



Designation
Réf. de l'article

D L a Ts Z

①



45Z10005TQRA45

10

19

5

6

2

WS-0029

45Z12006T6RA45

12

23

6

8

2

WS-0030

45Z16008TRRA45

16

28

8

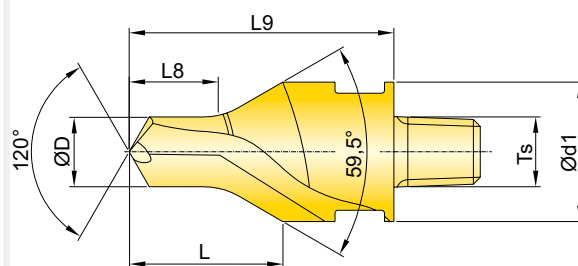
10

2

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)
+ + + ○ +

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



z9



Designation
Réf. de l'article

D

d

L

L8

L9

Ts

Z

①



45Z03208TQRA15

3,28

8

8

4,6

15

5

2

WS-0043

45Z04111T6RA19

4,12

10

11

5,9

19

6

2

WS-0029

45Z05113T8RA23

5,13

12

13

7,2

23

8

2

WS-0030

45Z06517TRRA28

6,46

16

17

8,9

28

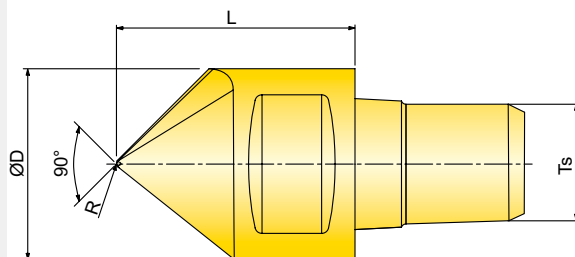
10

2

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



Designation

Réf. de l'article

D L R Ts Z
8 10 0,2 5 2

①

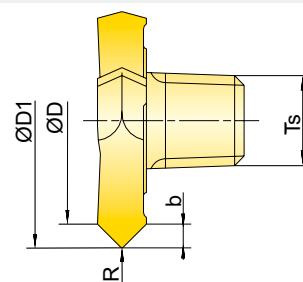


WS-0043

① = Wrench / Clé de serrage

CHIP SURFER™ 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

IN1530

P M K N_(K) S_(M) H_(P/K)
+ + + + + ○

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

± 0,03



Designation

Réf. de l'article

D D1 b R Ts Z
14,9 17,7 1,4 0,1 6 3
14,9 17,7 1,4 0,1 6 3

①



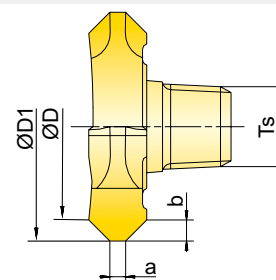
WS-0035

WS-0035

① = Wrench / Clé de serrage

CHIP SURFER™ SLOT MILL FOR CHAMFERING 45° Z=4
FRAISE A CHANFREINER "45°" A 4 DENTS

FOR EXCHANGEABLE HEAD SYSTEM
 POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN1530

P

M

K

N_(K)

S_(M)

H_(PK)

± 0,03

± 0,03



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

Designation

Réf. de l'article

D

D1

a

b

Ts

Z

①



17N21755T8RK17

18,3

21,7

1,5

1,7

8

4

WS-0036

17N21755T8RP17

18,3

21,7

1,5

1,7

8

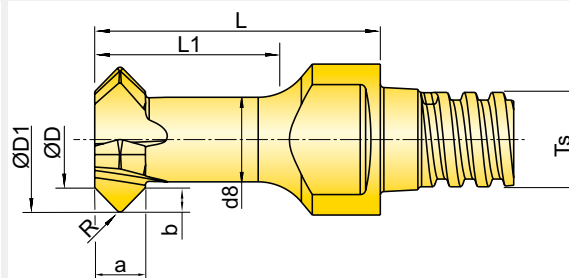
4

WS-0036

① = Wrench / Clé de serrage

CHIP SURFER™ SLOT MILL FOR CHAMFERING Z=4
FRAISE A CHANFREINER A 4 DENTS

FOR EXCHANGEABLE HEAD SYSTEM
 POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN2005

P

M

K

N_(K)

S_(M)

H_(PK)

± 0,03

± 0,03



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

Designation

Réf. de l'article

D

D1

d8

L

L1

a

b

R

Ts

Z

①



17N07727TQRK12

5,3

7,7

4,5

15,2

10,3

2,7

1,2

0,2

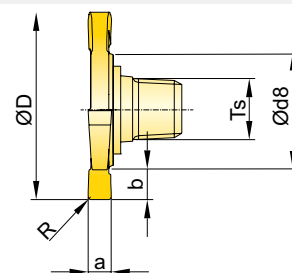
5

4

WS-0043

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
 POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN1530

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

±0,03

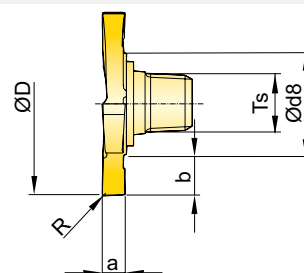


+ Preferred choice / Premier choix O Second choice / Second choix

Designation Réf. de l'article	D	d8	a	b	R	Ts	Z	①
16T15715T6RK01	15,7	10	1,5	2,8	0,1	6	3	WS-0035
16T15715T6RP01	15,7	10	1,5	2,8	0,1	6	3	WS-0035
16T15715T6RK02	15,7	10	1,57	2,8	0,2	6	3	WS-0035
16T15720T6RK02	15,7	10	2	2,8	0,2	6	3	WS-0035
16T15722T6RP11	15,7	10	2,2	2,8	1,1	6	3	WS-0035
16T15724T6RK02	15,7	10	2,39	2,8	0,2	6	3	WS-0035
16T15725T6RK02	15,7	10	2,5	2,8	0,2	6	3	WS-0035
16T15730T6RK02	15,7	10	3	2,8	0,2	6	3	WS-0035
16T15730T6RP02	15,7	10	3	2,8	0,2	6	3	WS-0035
16T15731T6RK02	15,7	10	3,17	2,8	0,2	6	3	WS-0035
16T17712T6RK00	17,7	10	1,2	3,8	0,05	6	3	WS-0035
16T17712T6RP06	17,7	10	1,2	3,8	0,6	6	3	WS-0035
16T17714T6RK00	17,7	10	1,4	3,8	0,05	6	3	WS-0035
16T17715T6RK01	17,7	10	1,5	3,8	0,1	6	3	WS-0035
16T17715T6RK02	17,7	10	1,57	3,8	0,2	6	3	WS-0035
16T17717T6RK00	17,7	10	1,7	3,8	0,05	6	3	WS-0035
16T17720T6RK02	17,7	10	2	3,8	0,2	6	3	WS-0035
16T17720T6RP10	17,7	10	2	3,8	1	6	3	WS-0035
16T17722T6RP11	17,7	10	2,2	3,8	1,1	6	3	WS-0035
16T17723T6RK02	17,7	10	2,39	3,8	0,2	6	3	WS-0035
16T17725T6RK02	17,7	10	2,5	3,8	0,2	6	3	WS-0035
16T17730T6RK02	17,7	10	3	3,8	0,2	6	3	WS-0035
16T17730T6RP15	17,7	10	3	3,8	1,5	6	3	WS-0035
16T17731T6RK02	17,7	10	3,17	3,8	0,2	6	3	WS-0035

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
 POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance

IN1530

P M K N_(S) S_(M) H_(PK)
 + + + + + ○

±0,03

≤44
HRC



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

Designation
 Réf. de l'article

D d8 a b R Ts Z

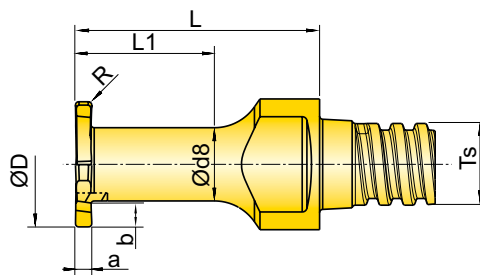
①



17T21707T8RK00	21,7	18,7	0,76	1,5	-	8	4	WS-0036
17T21708T8RK00	21,7	18,3	0,86	1,7	-	8	4	WS-0036
17T21709T8RK00	21,7	17,9	0,96	1,9	-	8	4	WS-0036
17T21710T8RK00	21,7	17,7	1	2	0,05	8	4	WS-0036
17T21710T8RP00	21,7	17,7	1	2	0,05	8	4	WS-0036
17T21712T8RK00	21,7	12,7	1,2	4,5	0,05	8	4	WS-0036
17T21714T8RK00	21,7	12,7	1,4	4,5	0,05	8	4	WS-0036
17T21715T8RK00	21,7	12,7	1,57	4,5	-	8	4	WS-0036
17T21717T8RK01	21,7	12,7	1,7	4,5	0,1	8	4	WS-0036
17T21717T8RP01	21,7	12,7	1,7	4,5	0,1	8	4	WS-0036
17T21719T8RK02	21,7	12,7	1,95	4,5	0,2	8	4	WS-0036
17T21720T8RK02	21,7	12,7	2	4,5	0,2	8	4	WS-0036
17T21720T8RP02	21,7	12,7	2	4,5	0,2	8	4	WS-0036
17T21722T8RK02	21,7	12,7	2,25	4,5	0,2	8	4	WS-0036
17T21723T8RK02	21,7	12,7	2,39	4,5	0,2	8	4	WS-0036
17T21725T8RK02	21,7	12,7	2,5	4,5	0,2	8	4	WS-0036
17T21725T8RP02	21,7	12,7	2,5	4,5	0,2	8	4	WS-0036
17T21727T8RK02	21,7	12,7	2,75	4,5	0,2	8	4	WS-0036
17T21730T8RK02	21,7	12,7	3	4,5	0,2	8	4	WS-0036
17T21730T8RP02	21,7	12,7	3	4,5	0,2	8	4	WS-0036
17T21731T8RK02	21,7	12,7	3,17	4,5	0,2	8	4	WS-0036
17T21732T8RK02	21,7	12,7	3,25	4,5	0,2	8	4	WS-0036
17T21740T8RK02	21,7	12,7	4	4,5	0,2	8	4	WS-0036
17T21740T8RP02	21,7	12,7	4	4,5	0,2	8	4	WS-0036
17T21742T8RK02	21,7	12,7	4,25	4,5	0,2	8	4	WS-0036
17T21747T8RK02	21,7	12,7	4,75	4,5	0,2	8	4	WS-0036
17T21752T8RK02	21,7	12,7	5,25	4,5	0,2	8	4	WS-0036
17T21740T8RP20	21,7	12,7	4	4,5	2	8	4	WS-0036

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) +0/-0,05
 □ (a) ±0,02

454
 HRC

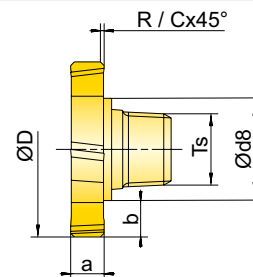


+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	d8	L	L1	a	b	R	Ts	Z	①
17T07707QRK02	7,7	4,5	15	10	0,7	1,2	0,2	5	4	WS-0043
17T07708QRK02	7,7	4,5	15	10	0,8	1,2	0,2	5	4	WS-0043
17T07709QRK02	7,7	4,5	15	10	0,9	1,2	0,2	5	4	WS-0043
17T07710QRK02	7,7	4,5	15	10	1	1,2	0,2	5	4	WS-0043
17T07715QRK02	7,7	4,5	15	10	1,5	1,2	0,2	5	4	WS-0043
17T07720QRK02	7,7	4,5	15	10	2	1,2	0,2	5	4	WS-0043

① = Wrench / Clé de serrage

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TETES INTERCHANGEABLES



Grade / Nuance
IN1030

P M K N_(S) S_(M) H_(PK)
+ + + + ○

△ (D) +0/-0,05
□ (a) ±0,02

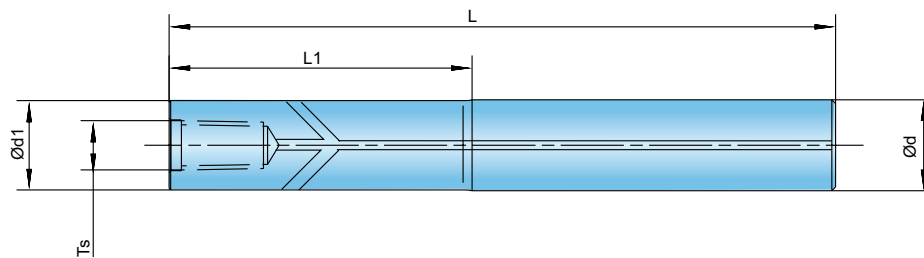
≤44
HRC



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

Designation Réf. de l'article	D	d8	a	b	R	C	Ts	Z	①
18T13520TQRN00	13,5	8,2	2	2,65	-	0,15	5	6	DS-T20S
18T13525TQRN00	13,5	8,2	2,5	2,65	-	0,15	5	6	DS-T20S
18T13530TQRN04	13,5	8,2	3	2,65	0,4	-	5	6	DS-T20S
18T13540TQRN04	13,5	8,2	4	2,65	0,4	-	5	6	DS-T20S
18T16020T6RN04	16	10	2	3	0,4	-	6	6	DS-T20S
18T16030T6RN04	16	10	3	3	0,4	-	6	6	DS-T25S
18T16040T6RN04	16	10	4	3	0,4	-	6	6	DS-T25S
18T16520T6RN04	16,5	10	2	3,25	0,4	-	6	6	DS-T20S
18T16530T6RN04	16,5	10	3	3,25	0,4	-	6	6	DS-T25S
18T16540T6RN04	16,5	10	4	3,25	0,4	-	6	6	DS-T30S
18T19540T8RN04	19,5	13	4	3,25	0,4	-	8	6	DS-T30S
18T19550T8RN04	19,5	13	5	3,25	0,4	-	8	6	DS-T30S
18T19560T8RN04	19,5	13	6	3,25	0,4	-	8	6	DS-T30S
18T22550T8RN04	22,5	13	5	4,75	0,4	-	8	6	DS-T40L
18T22560T8RN04	22,5	13	6	4,75	0,4	-	8	6	DS-T40L
18T22580T8RN04	22,5	13	8	4,75	0,4	-	8	6	DS-T40L
18T25060T8RN04	25	11,2	6	5,9	0,4	-	8	6	DS-T50L
18T25080T8RN04	25	11,2	8	5,9	0,4	-	8	6	DS-T50L
18T25050TRRN04	25	16,4	5	4,3	0,4	-	10	6	DS-T50L
18T25060TRRN04	25	16,4	6	4,3	0,4	-	10	6	DS-T50L
18T25080TRRN04	25	16,4	8	4,3	0,4	-	10	6	DS-T50L
18T27725TRRN02	27,7	15,7	2,5	6	0,2	-	10	6	DS-T40L
18T27752TRRN02	27,7	15,7	5,25	6	0,2	-	10	6	DS-T40L
18T27799TRRN02	27,7	15,7	10	6	0,2	-	10	6	DS-T40L

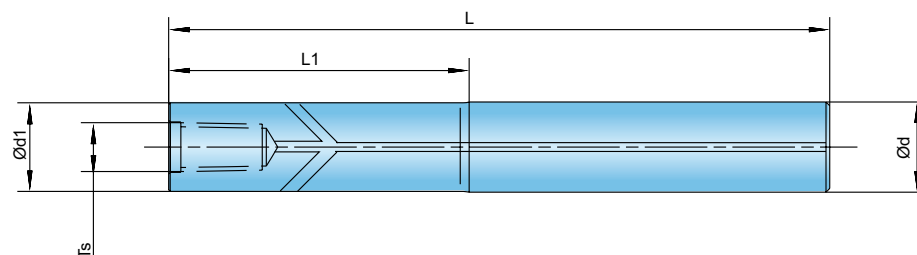
① = Screw driver / Tournevis



CHIP-SURFER connection / CHIP-SURFER connexion

cylindrical shank / Queue Cylindrique

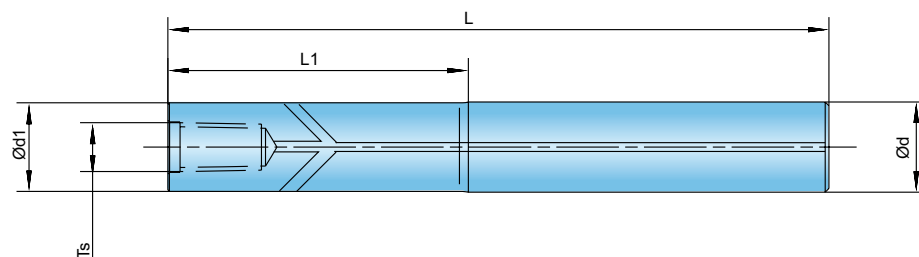
Designation Réf. de l'article	d	d1	L	L1	Ts	
S008T05SA015	8	7,6	60	15	5	
S008T05SA070	8	8	70	-	5	
S012T05SA150	12	12	150	-	5	
S010T06SA020	10	9,5	75	17,5	6	
S010T06DA020	10	9,5	75	17,5	6	✓
S010T06SA010	10	10	80	-	6	
S010T06DA010	10	10	80	-	6	✓
S016T06SA200	16	16	200	-	6	
S012T08SA015	12	11,5	90	10,5	8	
S012T08DA015	12	11,5	90	10,5	8	✓
S012T08SA012	12	12	90	-	8	
S012T08DA012	12	12	90	-	8	✓
S020T08SA250	20	20	250	-	8	
S016T10SA018	16	15,2	100	18	10	
S016T10DA018	16	15,2	100	48	10	✓
S016T10SA016	16	16	100	-	10	
S016T10DA016	16	16	100	-	10	✓
S025T10SA250	25	25	250	-	10	
S020T12SA025	20	18,3	120	25	12	
S020T12DA025	20	18,3	120	70	12	✓
S025T15SA035	25	23,9	135	35	15	
S032T15SA009	32	23,9	100	9	15	



CHIP-SURFER connection / CHIP-SURFER connexion

cylindrical shank / Queue Cylindrique

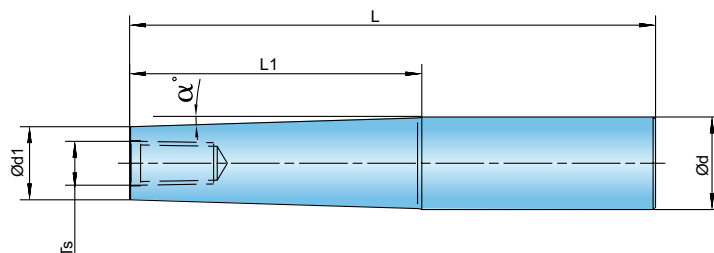
Designation Réf. de l'article	d	d1	L	L1	Ts	
S008T05CA020	8	7,6	70	18	5	
S008T05CA040	8	7,6	90	38	5	
S008T05CA060	8	7,6	110	57,9	5	
S010T06CA020	10	9,6	70	18	6	
S010T06CA040	10	9,6	90	38	6	
S010T06CA060	10	9,6	110	57,9	6	
S010T06CA064	10	10	100	-	6	
S010T06CA100	10	9,6	150	100	6	
S012T08CA020	12	11,5	70	17,9	8	
S012T08CA040	12	11,5	90	37,9	8	
S012T08CA060	12	11,5	110	57,8	8	
S012T08CA080	12	11,5	130	77,8	8	
S012T08CA078	12	12	100	-	8	✓
S016T10CA040	16	15,2	90	37,5	10	
S016T10CA060	16	15,2	110	57,4	10	
S016T10CA080	16	15,2	130	77,4	10	
S016T10CA100	16	15,2	150	97,4	10	
S020T12CA040	20	18,3	90	36,6	12	
S020T12CA080	20	18,3	130	76,5	12	
S020T12CA120	20	18,3	200	116,5	12	
S025T15CA060	25	23,9	120	57	15	
S025T15CA100	25	23,9	170	97	15	
S025T15CA150	25	23,9	250	147	15	



CHIP-SURFER connection / CHIP-SURFER connexion

cylindrical shank / Queue Cylindrique

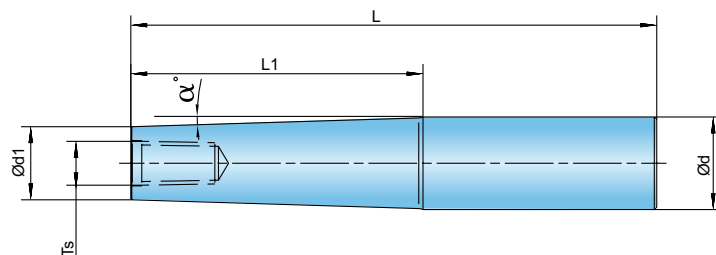
Designation Réf. de l'article	d	d1	L	L1	Ts	
S008T05HA020	8	7,6	70	20	5	
S008T05HA040	8	7,6	90	40	5	
S008T05HA060	8	7,6	110	60	5	
S010T06HA020	10	9,6	70	20	6	✓
S010T06HA040	10	9,6	90	40	6	✓
S010T06HA060	10	9,6	110	60	6	✓
S012T08HA020	12	11,5	70	20	8	✓
S012T08HA040	12	11,5	90	40	8	✓
S012T08HA060	12	11,5	110	60	8	✓
S012T08HA080	12	11,5	130	80	8	✓
S012T08HA078	12	12	100	-	8	✓
S016T10HA020	16	15,2	70	20	10	✓
S016T10HA040	16	15,2	90	40	10	✓
S016T10HA060	16	15,2	110	60	10	✓
S016T10HA080	16	15,2	130	80	10	✓
S016T10HA100	16	15,2	150	100	10	✓
S020T12HA040	20	18,3	90	40	12	✓
S020T12HA080	20	18,3	130	80	12	✓
S020T12HA120	20	18,3	200	120	12	✓



CHIP-SURFER connection / CHIP-SURFER connexion

cylindrical shank / Queue Cylindrique

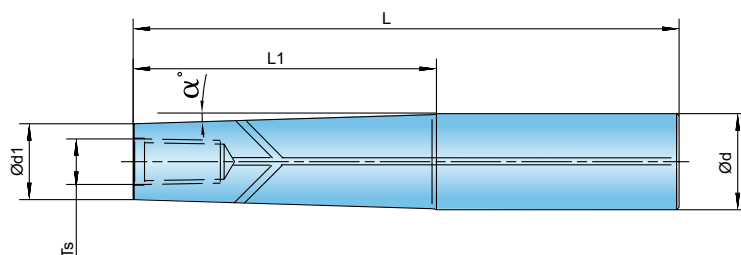
Designation Réf. de l'article	d	d1	L	L1	α	Ts
S016T06SK034	16	9,6	125	34	5,0°	6
S016T06SK045	16	9,6	160	45	1,0°	6
S016T08SK022	16	11,5	140	22	5,0°	8
S020T08SK080	20	11,5	170	80	3,0°	8
S025T12SK040	25	18,3	160	40	4,8°	12
S025T12SK100	25	18,3	210	100	2,0°	12
S032T12SK080	32	18,3	190	80	4,9°	12
S040T15SK100	40	23,9	250	100	9,2°	15



CHIP-SURFER connection / CHIP-SURFER connexion

cylindrical shank / Queue Cylindrique

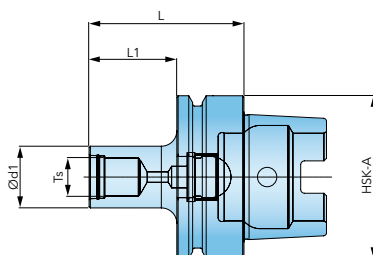
Designation Réf. de l'article	d	d1	L	L1	α	Ts
S012T05CK060	12	7,6	110	54,7	1,5°	5
S012T05CK080	12	7,6	130	76,1	1,5°	5
S016T05CK100	16	7,6	150	90,1	1,5°	5
S012T06CK060	12	9,6	110	60	1,5°	6
S016T06CK080	16	9,6	130	80	1,5°	6
S016T06CK100	16	9,6	150	94,1	1,5°	6
S016T06CK120	16	9,6	170	115,5	1,5°	6
S016T08CK080	16	11,5	130	76	1,5°	8
S016T08CK100	16	11,5	150	96,4	1,3°	8
S020T08CK120	20	11,5	170	110,4	1,5°	8
S020T10CK100	20	15,2	150	96,1	1,4°	10
S020T10CK120	20	15,2	170	116,5	1,1°	10
S020T10CK140	20	15,2	190	140	1,0°	10
S020T10CK160	20	15,2	210	160	0,9°	10
S025T12CK120	25	18,3	180	114,2	1,6°	12
S025T12CK140	25	18,3	250	135,6	1,35°	12
S032T15CK150	32	23,9	250	143,3	3,1°	15
S032T15CK200	32	23,9	300	195,7	2,3°	15



CHIP-SURFER connection / CHIP-SURFER connexion

cylindrical shank / Queue Cylindrique

Designation Réf. de l'article	d	d1	L	L1	α	Ts	
S012T05HK060	12	7,6	110	60	1,5°	5	
S012T05HK080	12	7,6	130	80	1,5°	5	
S012T06HK060	12	9,6	110	60	1,5°	6	✓
S016T06HK080	16	9,6	130	80	1,5°	6	✓
S016T06HK100	16	9,6	150	100	1,5°	6	✓
S016T06HK120	16	9,6	170	120	1,5°	6	✓
S016T08HK080	16	11,5	130	80	1,5°	8	✓
S016T08HK100	16	11,5	150	100	1,3°	8	✓
S020T08HK120	20	11,5	170	120	1,5°	8	✓
S020T10HK100	20	15,2	150	100	1,2°	10	✓
S020T10HK120	20	15,2	170	120	1,1°	10	✓
S020T10HK140	20	15,2	190	140	1,0°	10	✓
S020T10HK160	20	15,2	210	160	0,9°	10	✓
S025T12HK120	25	18,3	180	120	1,6°	12	✓
S025T12HK140	25	18,3	250	140	1,35°	12	✓
S025T12HK140-01	25	18,3	200	150	1,35°	12	✓
S025T12HK160-01	25	18,3	250	160	1,35°	12	✓



CHIP-SURFER connection / CHIP-SURFER connexion

DIN 69893 / DIN 69893

Designation Réf. de l'article	d1	L	L1	Ts	HSK-A
HSKA63T06X50	9,5	50	18	6	63
HSKA63T08X50	11,5	50	18	8	63
HSKA63T10X55	15,2	55	23	10	63
HSKA63T12X55	18,3	55	23	12	63
HSKA63T15X60	23,9	60	28	15	63

SPARE PARTS
ACCESSOIRES

①



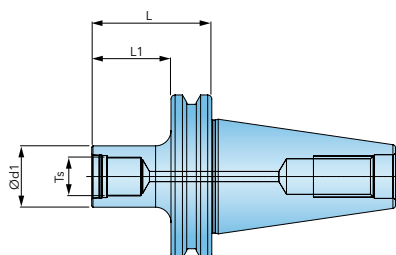
②



Z2

Z2

① = Coolant tube / Tube de lubrification ② = Socket wrench / Clé de fixation



CHIP-SURFER connection / CHIP-SURFER connexion

DIN 69871 / DIN 69871

Designation Réf. de l'article	d1	L	L1	Ts	SK
DIN6987140T06X40	9,5	40	15	6	40
DIN6987140T08X45	11,5	45	20	8	40
DIN6987140T10X50	15,2	50	25	10	40
DIN6987140T12X50	18,3	50	25	12	40
DIN6987140T15X50	23,9	50	25	15	40

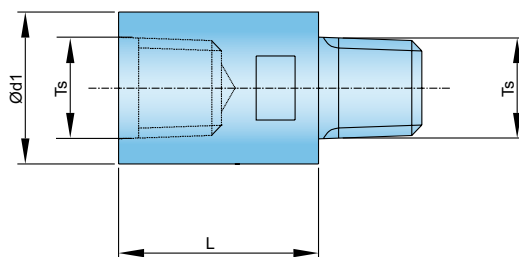
SPARE PARTS
ACCESSOIRES

①



Z1

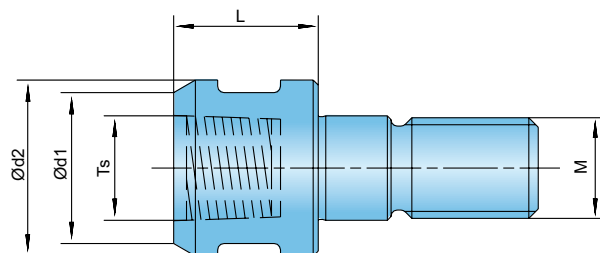
① = Draw bolt / Tirette



CHIP-SURFER connection / CHIP-SURFER connexion

CHIP-SURFER connection / CHIP-SURFER connexion

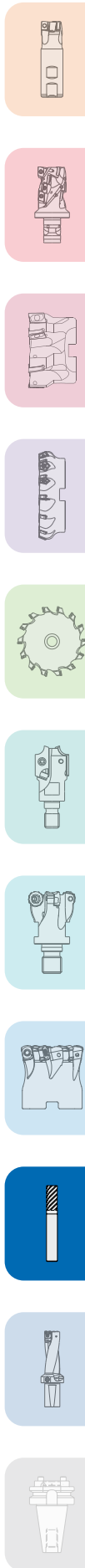
Designation Réf. de l'article	d1	L	Ts
T05T05SA-10	7,6	25,4	5
T06T06SA-10	9,3	25,4	6
T08T08SA-10	11,5	25,4	8
T10T10SA-15	15,2	38,1	10
T12T12SA-15	18,3	38,1	12
T15T15SA-17	23,9	45	15



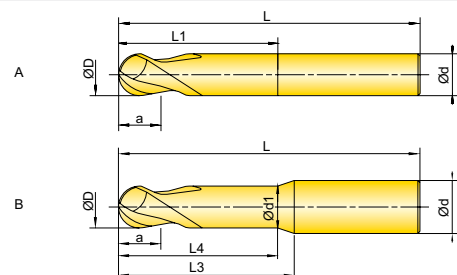
CHIP-SURFER connection / CHIP-SURFER connexion

screw-in type connection / Tête vissée

Designation Réf. de l'article	d1	d2	L	M	Ts
MOD06T06SA016	9,3	9,7	16	6	6
MOD08T06SA016	9,6	13	16	8	6
MOD08T08SA016	11,7	13	16	8	8
MOD08T08SK025	11,7	13	25	8	8
MOD08T06SA025	9,3	13	25	8	6
MOD10T06SA025	9,6	18	25	10	6
MOD10T08SA020	11,7	18	20	10	8
MOD10T08SA025	11,7	18	25	10	8
MOD12T08SA020	11,7	21	20	12	8
MOD12T08SA025	11,7	21	25	12	8



ADAPTION ACC. TO DIN 6535 HA
ATTACHEMENT DIN 6535 HA



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)
+ + + + ○



e8

h6

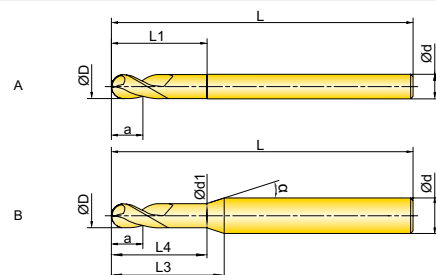


+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	d	d1	L	L1	L3	L4	a	Typ	Z
45B02004T9RB380 ¹⁾	2	3	-	38	-	10	6	4	B	2
45B02003T7RB570 ¹⁾	2	6	1,8	57	-	20	8	3	B	2
45B03005T9RB380	3	3	-	38	-	-	-	5	A	2
45B03004T7RB570 ¹⁾	3	6	2,8	57	-	20	10	3,5	B	2
45B04007U0RB500	4	4	-	50	-	-	-	7	A	2
45B04004T7RB570 ¹⁾	4	6	3,8	57	-	20	12	4	B	2
45B04007T7RB570 ¹⁾	4	6	-	57	-	13	10	7	B	2
45B05008U1RB500	5	5	-	50	-	-	-	8	A	2
45B05005T7RB570 ¹⁾	5	6	4,7	57	-	20	14	5	B	2
45B05008T7RB570 ¹⁾	5	6	-	57	-	12	10	8	B	2
45B06006T7RB570	6	6	5,6	57	20	-	-	6	A	2
45B06008T7RB570	6	6	-	57	-	-	-	8	A	2
45B08007T0RB630	8	8	7,6	63	25	-	-	7	A	2
45B08011T0RB630	8	8	-	63	-	-	-	11	A	2
45B10008T1RB720	10	10	9,6	72	30	-	-	8	A	2
45B10013T1RB720	10	10	-	72	-	-	-	13	A	2
45B12014T2RB830	12	12	-	83	-	-	-	14	A	2
45B16016T3RB930	16	16	-	93	-	-	-	16	A	2
45B20020T4RB100	20	20	-	104	-	-	-	20	A	2

¹⁾Conical type / Type conique

ADAPTION ACC. TO DIN 6535 HA
ATTACHEMENT DIN 6535 HA



Grade / Nuance

IN2005

P M K N_(K) S_(M) H_(PK)
+ + + + ○



e8

h6

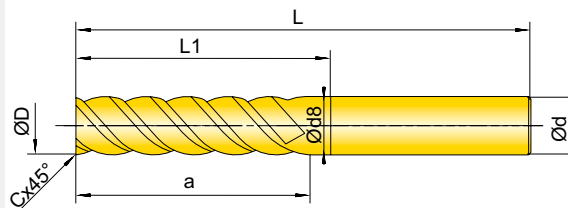
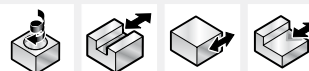


+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	d	d1	L	L1	L3	L4	α	a	Typ	Z
45B02003T7RB800 ¹⁾	2	6	1,8	80	-	40	8	4°	3	B	2
45B03004T7RB800 ¹⁾	3	6	2,8	80	-	40	12	3,5°	3,5	B	2
45B04004T7RB800 ¹⁾	4	6	3,8	80	-	40	20	4°	4	B	2
45B06006T7RB800	6	6	5,6	80	40	-	-	-	6	A	2
45B06006T0RB100 ¹⁾	6	8	5,6	100	-	60	25	2°	6	B	2
45B08007T0RB100	8	8	7,6	100	60	-	-	-	7	A	2
45B08007T1RB120 ¹⁾	8	10	7,6	120	-	60	32	2,5°	7	B	2
45B10008T1RB120	10	10	9,6	120	75	-	-	-	8	A	2
45B10008T2RB160 ¹⁾	10	12	9,6	160	-	110	40	1°	8	B	2

¹⁾ Conical type / Type conique

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



Grade / Nuance

IN2005

P M K N_(S) S_(M) H_(PK)
+ + + + ○

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



e8

h6



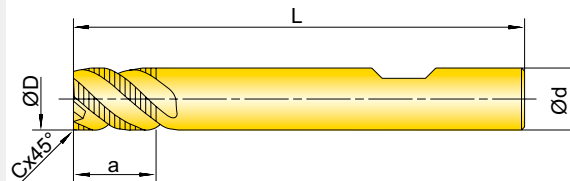
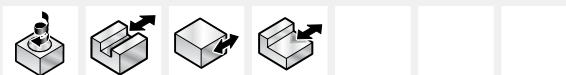
Designation
Réf. de l'article

Designation Réf. de l'article	D	d	d8	L	L1	a	C	Z
47C03008T7RQ010 ¹⁾	3	6	2,8	57	11	8	0,1	4
47C04010T7RQ010 ¹⁾	4	6	3,8	57	14	10	0,15	4
47C05012T7RQ010 ¹⁾	5	6	4,8	57	17	12	0,18	4
47C06014T7RQ020 ¹⁾	6	6	5,8	57	20	14	0,25	4
47C06014WERQ020 ²⁾	6	6	5,8	57	20	14	0,25	4
47C08018T0RQ030 ¹⁾	8	8	7,8	63	26	18	0,3	4
47C08018W0RQ030 ²⁾	8	8	7,8	63	26	18	0,3	4
47C10022T1RQ040 ¹⁾	10	10	9,8	72	32	22	0,4	4
47C10022W1RQ040 ²⁾	10	10	9,8	72	32	22	0,4	4
47C12026T2RQ050 ¹⁾	12	12	11,7	83	38	26	0,5	4
47C12026W2RQ050 ²⁾	12	12	11,7	83	38	26	0,5	4
47C16034T3RQ060 ¹⁾	16	16	15,7	100	50	34	0,6	4
47C16034W3RQ060 ²⁾	16	16	15,7	100	50	34	0,6	4
47C20042T4RQ060 ¹⁾	20	20	19,7	110	60	42	0,6	4
47C20042W4RQ060	20	20	19,7	110	60	42	0,6	4
47C25052T5RQ060 ¹⁾	25	25	24,6	121	65	52	0,6	4
47C25052W5RQ060 ²⁾	25	25	24,6	121	65	52	0,6	4
47C06015T7RQ021 ¹⁾	6	6	-	57	-	15	0,2	5
47C06015WERQ021 ²⁾	6	6	-	57	-	15	0,2	5
47C08020T0RQ021 ¹⁾	8	8	-	63	-	20	0,25	5
47C08020W0RQ021 ²⁾	8	8	-	63	-	20	0,25	5
47C10025T1RQ031 ¹⁾	10	10	-	72	-	25	0,3	5
47C10025W1RQ031 ²⁾	10	10	-	72	-	25	0,3	5
47C12030T2RQ041 ¹⁾	12	12	-	83	-	30	0,4	5
47C12030W2RQ041 ²⁾	12	12	-	83	-	30	0,4	5
47C16040T3RQ051 ¹⁾	16	16	-	100	-	40	0,5	5
47C16040W3RQ051 ²⁾	16	16	-	100	-	40	0,5	5
47C20050T4RQ051 ¹⁾	20	20	-	125	-	50	0,5	5
47C20050W4RQ051 ²⁾	20	20	-	125	-	50	0,5	5

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

ADAPTION ACC. TO DIN 6535 HB
ATTACHEMENT DIN 6535 HB



Grade / Nuance

IN2005

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

+ + + + +

○ Second choice / Second choix



e9
h6



Designation

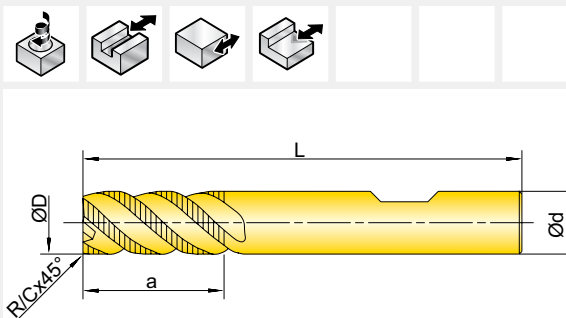
Réf. de l'article

D d L a C Z

47C05005WERN020	5	6	57	5	0,2	4
47C06006WERN030	6	6	57	6	0,25	4
47C08008WORN030	8	8	63	8	0,3	4
47C10010W1RN030	10	10	72	10	0,35	4
47C12012W2RN030	12	12	83	12	0,35	4
47C16016W3RN030 ¹⁾	16	16	92	16	0,35	5
48C20020W4RN030 ¹⁾	20	20	104	20	0,35	7

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

ADAPTION ACC. TO DIN 6535 HB
ATTACHEMENT DIN 6535 HB



Grade / Nuance
IN2005

P M K N_(S) S_(M) H_(P/K)
+ + + + ○



e9
h6



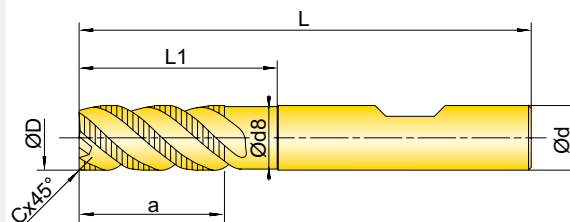
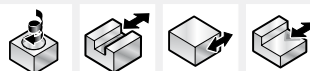
+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	d	L	a	R	C	Z
47C05010WERN020	5	6	57	10	-	0,2	4
47C06012WERN020	6	6	57	12	-	0,25	4
47C08016WORN030	8	8	63	16	-	0,3	4
47C10020W1RN030	10	10	72	20	-	0,35	4
47C12024W2RN030	12	12	83	24	-	0,35	4
47D12024W2RN120	12	12	83	24	1,2	-	4
47C16032W3RN030 ¹⁾	16	16	92	32	-	0,35	5
47D16032W3RN160 ¹⁾	16	16	92	32	1,6	-	5
48C20040W4RN030 ¹⁾	20	20	104	40	-	0,35	7

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

SOLID CARBIDE™ 4-7 FLUTE ROUGHERS - 3XD FRAISE ÉBAUCHE-3XD-Z4 A Z7

ADAPTION ACC. TO DIN 6535 HB
ATTACHEMENT DIN 6535 HB



Grade / Nuance

IN2005

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

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



e9
h6



Designation

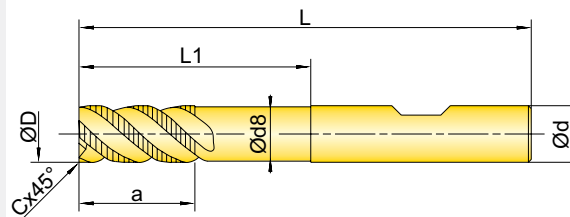
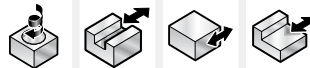
Réf. de l'article

	D	d	d8	L	L1	a	C	Z
47C06012WERN021	6	6	5,9	57	18	12	0,25	4
47C08016WORN031	8	8	7,8	63	24	16	0,3	4
47C10020W1RN031	10	10	9,8	72	30	20	0,35	4
47C12024W2RN031	12	12	11,7	83	36	24	0,35	4
47C16032W3RN031 ¹⁾	16	16	15,7	100	48	32	0,35	5
48C20040W4RN031 ¹⁾	20	20	19,7	110	60	40	0,35	7

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

SOLID CARBIDE™ 4-5 FLUTE ROUGHERS - 4XD FRAISE ÉBAUCHE-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)

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



e9
h6



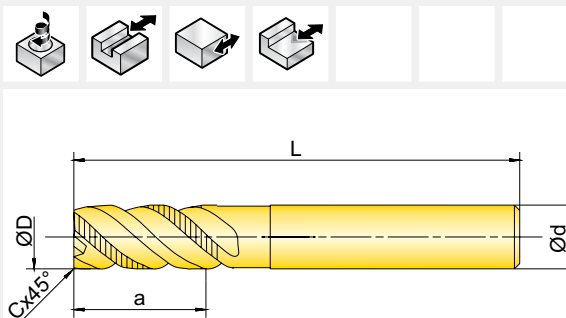
Designation

Réf. de l'article

	D	d	d8	L	L1	a	C	Z
47C08012WORN030	8	8	7,8	68	32	12	0,3	4
47C10015W1RN030	10	10	9,8	80	40	15	0,35	4
47C12018W2RN030	12	12	11,7	100	48	18	0,35	4
47C16024W3RN030 ¹⁾	16	16	15,7	115	64	24	0,35	5

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

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_(PK)
+ + + + ○



e9
h6

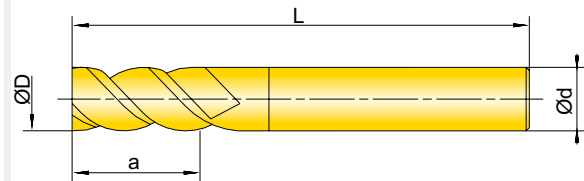
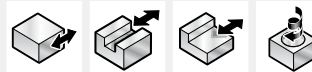


+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	d	L	a	C	Z	Zs
47J06014T7RU570 ¹⁾	6	6	57	14	0,25	4	2
47J06014WERU570 ²⁾	6	6	57	14	0,25	4	2
47J08018T0RU630 ¹⁾	8	8	63	18	0,3	4	2
47J08018W0RU630 ²⁾	8	8	63	18	0,3	4	2
47J10022T1RU720 ¹⁾	10	10	72	22	0,3	4	2
47J10022W1RU720 ²⁾	10	10	72	22	0,3	4	2
47J12026T2RU830 ¹⁾	12	12	83	26	0,4	4	2
47J12026W2RU830 ²⁾	12	12	83	26	0,4	4	2
47J14030U8RU830 ¹⁾	14	14	83	30	0,4	4	2
47J14030WFRU830 ²⁾	14	14	83	30	0,4	4	2
47J16034T3RU920 ¹⁾	16	16	92	34	0,6	4	2
47J16034W3RU920 ²⁾	16	16	92	34	0,6	4	2
47J20042T4RU040 ¹⁾	20	20	104	42	0,6	4	2
47J20042W4RU040 ²⁾	20	20	104	42	0,6	4	2
47J25052T5RU210 ¹⁾	25	25	121	52	0,6	4	2
47J25052W5RU210 ²⁾	25	25	121	52	0,6	4	2

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

ADAPTION ACC. TO DIN 6535 HA
ATTACHEMENT DIN 6535 HA



Grade / Nuance

IN2005

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

+ + + + ○

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



e8

h6



Designation

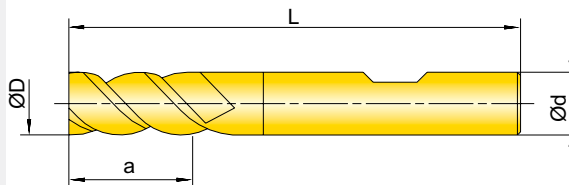
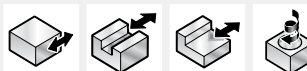
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D d L a Z

46J02007T9RD380	2	3	38	7	3
46J02007T7RD500	2	6	57	7	3
46J03010T9RD380	3	3	38	10	3
46J03010T7RD500	3	6	57	10	3
46J04012U0RD500	4	4	50	12	3
46J04012T7RD500	4	6	57	12	3
46J05014U1RD500	5	5	50	14	3
46J05014T7RD500	5	6	57	14	3
46J06016T7RD500	6	6	57	16	3
46J07016UARD600	7	7	60	16	3
46J08020T0RD630	8	8	63	20	3
46J09020U9RD670	9	9	67	20	3
46J10022T1RD720	10	10	72	22	3
46J12025T2RD730	12	12	83	25	3
46J14025U8RD750	14	14	83	25	3
46J16032T3RD820	16	16	92	32	3
46J18032U2RD920	18	18	92	32	3
46J20038T4RD920	20	20	104	38	3

SOLIDOCARBIDE™ 3 FLUTE SLOT DRILL - DIN 6535HB **FRAISE EN BOUT-Z3-DIN 6535HB**

ADAPTION ACC. TO DIN 6535 HB
ATTACHEMENT DIN 6535 HB



Grade / Nuance

IN2005

P

M

K

N_(K)

S_(M)

H_(PK)

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h6



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

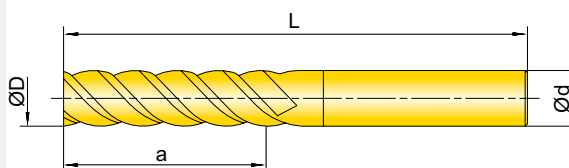
Designation

Réf. de l'article

	D	d	L	a	Z
46J06016WERD500	6	6	57	16	3
46J08020WORD630	8	8	63	20	3
46J10022W1RD720	10	10	72	22	3
46J12025W2RD830	12	12	83	25	3
46J16032W3RD920	16	16	92	32	3
46J20038W4RD100	20	20	104	38	3

SOLIDOCARBIDE™ 4-6 FLUTE END MILL - LONG LENGTH **FRAISE EN BOUT-SERIE LONGUE-Z4 OU Z6**

ADAPTION ACC. TO DIN 6535 HA
ATTACHEMENT DIN 6535 HA



Grade / Nuance

IN2005

P

M

K

N_(K)

S_(M)

H_(PK)

△

e8

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□

h6



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

Designation

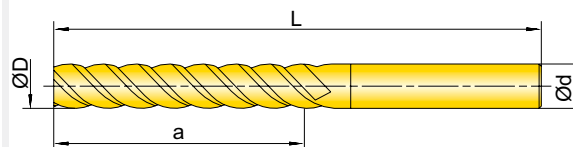
Réf. de l'article

	D	d	L	a	Z
47J06024T7RD650	6	6	65	24	4
47J08032T0RD800	8	8	80	32	4
47J10040T1RD100	10	10	100	40	4
47J12048T2RD100	12	12	100	48	4
47J14050U8RD100	14	14	100	50	4
48J16056T3RD120 ¹⁾	16	16	115	56	6
48J20060T4RD130 ¹⁾	20	20	125	60	6

¹⁾ 6 flutes no center cutting / 6 dents pas de coupe au centre

SOLID CARBIDE™ 4-6 FLUTE END MILL - EXTRA LONG LENGTH
FRAISE EN BOUT-SÉRIE EXTRA LONGUE-Z4 OU Z6

ADAPTION ACC. TO DIN 6535 HA
 ATTACHEMENT DIN 6535 HA



Grade / Nuance

IN2005

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

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



e8

h6



Designation

Réf. de l'article

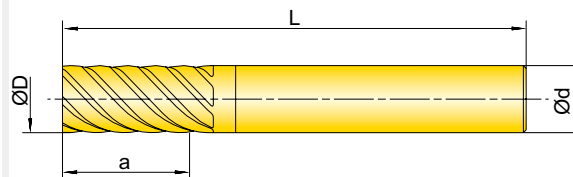
D d L a Z

47J10060T1RD110	10	10	110	60	4
47J12072T2RD150	12	12	150	72	4
48J16080T3RD150 ¹⁾	16	16	150	80	6
48J20080T4RD150 ¹⁾	20	20	150	80	6

¹⁾ 6 flutes no center cutting / 6 dents pas de coupe au centre

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_(P/K)

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



e8

h6



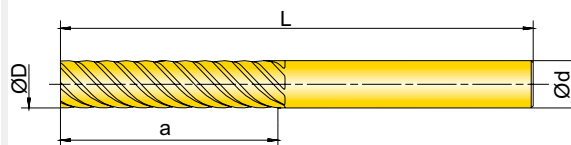
Designation

Réf. de l'article

D d L a Z

48J06016T7RD570	6	6	57	16	6
48J08020T0RD630	8	8	63	20	6
48J10022T1RD720	10	10	72	22	6
48J12025T2RD830	12	12	83	25	6
48J16032T3RD920	16	16	92	32	6
48J20038T4RD100	20	20	104	38	6

ADAPTION ACC. TO DIN 6535 HA
 ATTACHEMENT DIN 6535 HA



Grade / Nuance

IN2006

P	M	K	N _(K)	S _(M)	H _(P/K)
+	+	+		+	+



e8

h6



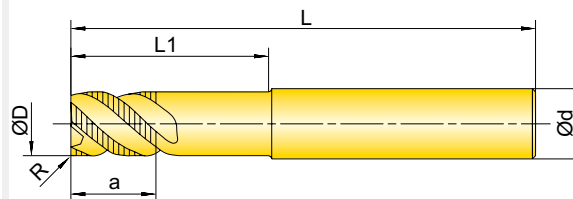
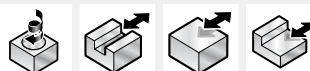
+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation

Réf. de l'article

	D	d	L	a	Z
48J06026T7RD700	6	6	70	26	6
48J08036T0RD900	8	8	90	36	6
48J10046T1RD100	10	10	100	46	6
48J12056T2RD110	12	12	110	56	6
48J16066T3RD130	16	16	130	66	6
48J20076T4RD140	20	20	140	76	6
48J25092T5RD180	25	25	180	92	6

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)

+

h6

h6

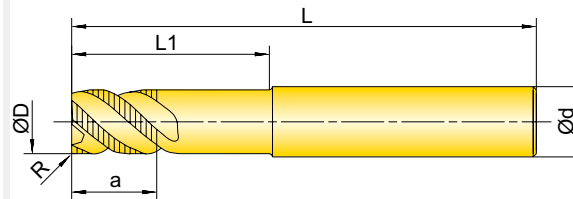
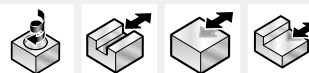


+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	d	L	L1	a	R	Z
46D06009T7RN020 ¹⁾	6	6	57	21	9	0,2	3
46D06009WERN020 ²⁾	6	6	57	21	9	0,2	3
46D08012TORN020 ¹⁾	8	8	63	27	12	0,2	3
46D08012WORN020 ²⁾	8	8	63	27	12	0,2	3
46D10012T1RN020 ¹⁾	10	10	72	31	12	0,2	3
46D10012W1RN020 ²⁾	10	10	72	31	12	0,2	3
46D12012T2RN020 ¹⁾	12	12	83	37	12	0,2	3
46D12012W2RN020 ²⁾	12	12	83	37	12	0,2	3
46D16014T3RN020 ¹⁾	16	16	92	43	14	0,2	3
46D16014W3RN020 ²⁾	16	16	92	43	14	0,2	3
46D20017T4RN020 ¹⁾	20	20	104	53	17	0,2	3
46D20017W4RN020 ²⁾	20	20	104	53	17	0,2	3
on request with diamond coating / revêtement diamant sur demande							

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

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



Grade / Nuance

IN05S

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

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



h6

h6



Designation

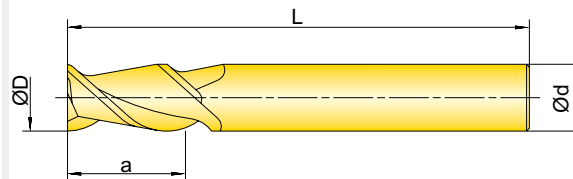
Réf. de l'article

	D	d	L	L1	a	R	Z
46D06009T7RN021 ¹⁾	6	6	65	30	9	0,2	3
46D06009WERN021 ²⁾	6	6	65	30	9	0,2	3
46D08012TORN021 ¹⁾	8	8	78	40	12	0,2	3
46D08012WORN021 ²⁾	8	8	78	40	12	0,2	3
46D10012T1RN021 ¹⁾	10	10	100	50	12	0,2	3
46D10012W1RN021 ²⁾	10	10	100	50	12	0,2	3
46D12014T2RN021	12	12	100	55	14	0,2	3
46D12014W2RN021	12	12	100	55	14	0,2	3
46D16018T3RN021	16	16	150	80	18	0,2	3
46D16018W3RN021	16	16	150	80	18	0,2	3
46D20022T4RN021	20	20	150	80	22	0,2	3
46D20022W4RN021	20	20	150	80	22	0,2	3

on request with diamond coating / revêtement diamant sur demande

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

ADAPTION ACC. TO DIN 6535 HA
 ATTACHEMENT DIN 6535 HA



Grade / Nuance

IN05S

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

+



h6



h6

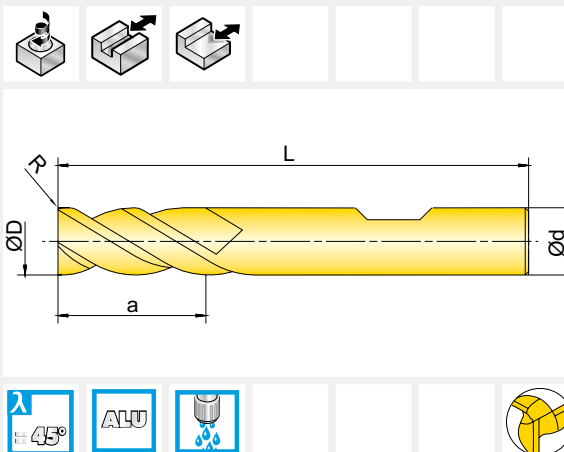


+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	d	L	a	Z
45J04012T7RD570	4	6	57	12	2
45J05014T7RD570	5	6	57	14	2
45J06016T7RD570	6	6	57	16	2
45J08020T0RD630	8	8	63	20	2
45J10022T1RD720	10	10	72	22	2
45J12025T2RD830	12	12	83	25	2
45J16032T3RD920	16	16	92	32	2
45J20038T4RD100	20	20	104	38	2

on request with diamond coating / revêtement diamant sur demande

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)
+



h6
h6

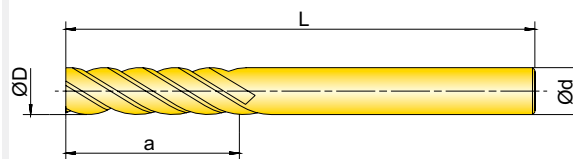


+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	d	L	a	R	Z
46D05014T7RD020 ¹⁾	5	6	57	14	0,2	3
46D05014WERD020 ²⁾	5	6	57	14	0,2	3
46D06016T7RD020 ¹⁾	6	6	57	16	0,2	3
46D06016WERD020 ²⁾	6	6	57	16	0,2	3
46D08020T0RD020 ¹⁾	8	8	63	20	0,2	3
46D08020W0RD020 ²⁾	8	8	63	20	0,2	3
46D10022T1RD020 ¹⁾	10	10	72	22	0,2	3
46D10022W1RD020 ²⁾	10	10	72	22	0,2	3
46D12025T2RD020 ¹⁾	12	12	83	25	0,2	3
46D12025W2RD020 ²⁾	12	12	83	25	0,2	3
46D14030U8RD020 ¹⁾	14	14	83	30	0,2	3
46D14030WFRD020 ²⁾	14	14	83	30	0,2	3
46D16032T3RD020 ¹⁾	16	16	92	32	0,2	3
46D16032W3RD020 ²⁾	16	16	92	32	0,2	3
46D20038T4RD020 ¹⁾	20	20	104	38	0,2	3
46D20038W4RD020 ²⁾	20	20	104	38	0,2	3
on request with diamond coating / revêtement diamant sur demande						

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

ADAPTION ACC. TO DIN 6535 HA
ATTACHEMENT DIN 6535 HA



Grade / Nuance

IN05S

P

M

K

N_(K)

S_(M)

H_(PK)

+



h10



h6

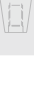


+ Preferred choice / Premier choix ○ Second choice / Second choix

Designation Réf. de l'article	D	d	L	a	Z
47J03030T9RB750	3	3	75	30	4
47J04030U0RB750	4	4	75	30	4
47J05040U1RB100	5	5	100	40	4
47J06050T7RB150	6	6	150	50	4
47J08050T0RB150	8	8	150	50	4
47J10060T1RB150	10	10	150	60	4
47J12075T2RB150	12	12	150	75	4

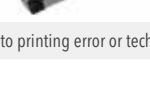
on request with diamond coating / revêtement diamant sur demande

BORING TOOLS / OUTILS D'ALÉSAGE

	D	a	Description	Code / Série	Page
		7,0 - 25,9	1,5 x D GOLD•TWIST™ Head changeable Drill Foret a embout	1,5D Ø7,0-Ø25,9	280
		7,0 - 25,9	3 x D GOLD•TWIST™ Head changeable Drill 3D Ø7,0-Ø25,9 Foret a embout	3D Ø7,0-Ø25,9	281
		7,0 - 25,9	5 x D GOLD•TWIST™ Head changeable Drill 5D Ø7,0-Ø25,9 Foret a embout	5D Ø7,0-Ø25,9	282
		7,0 - 25,9	8 x D GOLD•TWIST™ Head changeable Drill 8D Ø7,0-Ø25,9 Foret a embout	8D Ø7,0-Ø25,9	283
		12,0 - 22,9	12 x D GOLD•TWIST™ Head changeable Drill 12D Ø12,0-Ø22,9 Foret a embout	12D Ø12,0-Ø22,9	284
		8,5 - 21,9	26 - 48 GOLD•TWIST™ Head changeable chamfer Drill Foret à embout pour percer et chanfreiner	chamfer Drill percer et chanfreiner	285
		34 - 47	2 GOLD•TWIST™ Chamfer Ring Bague a chanfreiner	CB...R2	286
		14,0 - 26,0	2 x D QUAD•TWIST™ Indexable Drill Foret à Plaquettes	2D Ø14 - Ø26	291
		27,0 - 50,0	2 x D QUAD•TWIST™ Indexable Drill Foret à Plaquettes	2D Ø27 - Ø50	292
		14,0 - 26,0	3 x D QUAD•TWIST™ Indexable Drill Foret à Plaquettes	3D Ø14 - Ø26	294
		26,5 - 50,5	3 x D QUAD•TWIST™ Indexable Drill Foret à Plaquettes	3D Ø26,5 - Ø50,5	296
		14,0 - 26,0	4 x D QUAD•TWIST™ Indexable Drill Foret à Plaquettes	4D Ø14 - Ø26	298
		27,0 - 50,0	4 x D QUAD•TWIST™ Indexable Drill Foret à Plaquettes	4D Ø27 - Ø50	300
		14,0 - 26,0	5 x D QUAD•TWIST™ Indexable Drill Foret à Plaquettes	5D Ø14 - Ø26	302

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

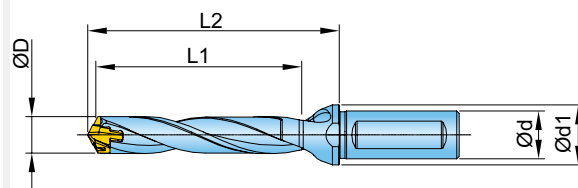
BORING TOOLS / OUTILS D'ALÉSAGE

	D	a	Description	Code / Série	Page
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	13 - 29	2 x D	QUADODRILL™ Indexable Drill Foret à Plaquettes	2D 013-029	306
	30 - 50	2 x D	QUADODRILL™ Indexable Drill Foret à Plaquettes	2D 030-050	308
	12,5 - 27,5	3 x D	QUADODRILL™ Indexable Drill Foret à Plaquettes	3D 012,5-027,5	310
	28 - 50,5	3 x D	QUADODRILL™ Indexable Drill Foret à Plaquettes	3D 028-050,5	312
	51 - 60	3 x D	QUADODRILL™ Indexable drill Foret à Plaquettes	3D 051 - 060	314
	13 - 29	4 x D	QUADODRILL™ Indexable Drill Foret à Plaquettes	4D 013-029	316
	30 - 50	4 x D	QUADODRILL™ Indexable Drill Foret à Plaquettes	4D 030-050	318
	13 - 27	5 x D	QUADODRILL™ Indexable drill Foret à Plaquettes	5D 013 - 027	320
	28 - 50	5 x D	QUADODRILL™ Indexable drill Foret à Plaquettes	5D 028 - 050	322
	51 - 80	2,5 x D	QUADODRILL™ Cartridge Indexable Drill Foret a cartouches	2,5D 051 - 080	324
	51 - 80	3,5 x D	QUADODRILL™ Cartridge Indexable Drill Foret a cartouches	3,5D 051 - 080	326
	16 - 40	1 x D	QUADODRILL™ Counterboring Mill Fraise à Percer - Rainurer	15S1...W	328
	10 - 48	1 x D	QUADODRILL™ Counterboring End Mill Fraise a lamer et trefler	15C1...W	330

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

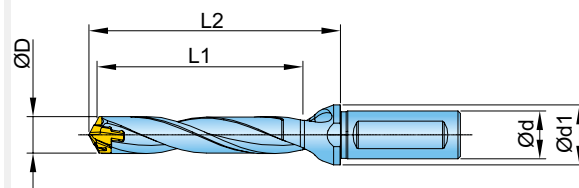
Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

ADAPTION ACC. TO DIN 1835 B
 ATTACHEMENT COMPATIBLE DIN 1835 B



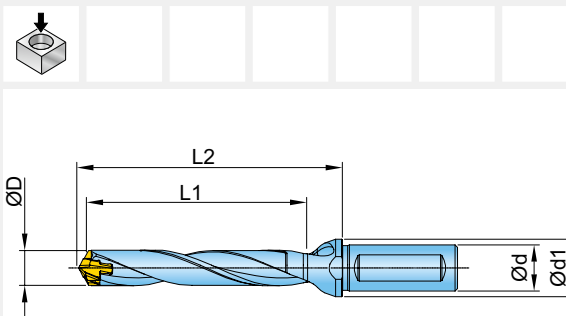
Designation Réf. de l'article	D min.	D max.	d	d1	L1	L2	BN	Key Clé	IK	kg
TD0700011JCR00	7,0	7,4	12	16	11	25,1	7	KTD6.0-9.9	✓	0,03
TD0750011JCR00	7,5	7,9	12	16	11,3	25,9	7	KTD6.0-9.9	✓	0,03
TD0800012JCR00	8,0	8,9	12	16	12	27,9	8	KTD6.0-9.9	✓	0,04
TD0900014JCR00	9,0	9,9	12	16	14	29,3	9	KTD6.0-9.9	✓	0,05
TD1000015JDR00	10,0	10,9	16	20	15	31,2	10	KTD10.0-19.9	✓	0,08
TD1100017JDR00	11,0	11,9	16	20	17	33,1	11	KTD10.0-19.9	✓	0,09
TD1200018JDR00	12,0	12,9	16	20	18	35,0	12	KTD10.0-19.9	✓	0,10
TD1300020JDR00	13,0	13,9	16	20	20	37,1	13	KTD10.0-19.9	✓	0,11
TD1400021JDR00	14,0	14,9	16	20	21	41,1	14	KTD10.0-19.9	✓	0,12
TD1500023JER00	15,0	15,9	20	25	23	46,2	15	KTD10.0-19.9	✓	0,15
TD1600024JER00	16,0	16,9	20	25	24	49,3	16	KTD10.0-19.9	✓	0,16
TD1700026JER00	17,0	17,9	20	25	26	52,4	17	KTD10.0-19.9	✓	0,17
TD1800027JFR00	18,0	18,9	25	32	27	55,5	18	KTD10.0-19.9	✓	0,28
TD1900029JFR00	19,0	19,9	25	32	29	58,5	19	KTD10.0-19.9	✓	0,30
TD2000030JFR00	20,0	20,9	25	32	30	61,6	20	KTD20.0-26.9	✓	0,31
TD2100032JFR00	21,0	21,9	25	32	32	64,7	21	KTD20.0-26.9	✓	0,32
TD2200033JFR00	22,0	22,9	25	32	33	67,8	22	KTD20.0-26.9	✓	0,34
TD2300035JGR00	23,0	23,9	32	42	35	70,9	23	KTD20.0-26.9	✓	0,42
TD2400036JGR00	24,0	24,9	32	42	36	74,0	24	KTD20.0-26.9	✓	0,46
TD2500038JGR00	25,0	25,9	32	42	38	77,0	25	KTD20.0-26.9	✓	0,50

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



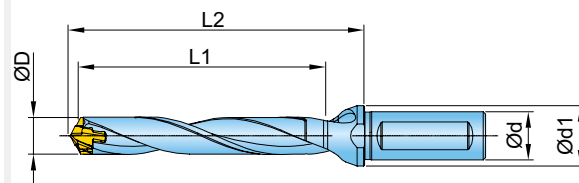
Designation Réf. de l'article	D min.	D max.	d	d1	L1	L2	BN	Key Clé	IK	kg
TD0700021JCR00	7,0	7,4	12	16	21	35,6	7	KTD6.0-9.9	✓	0,04
TD0750023JCR00	7,5	7,9	12	16	23	37,1	7	KTD6.0-9.9	✓	0,04
TD0800024JCR00	8,0	8,4	12	16	24	39,4	8	KTD6.0-9.9	✓	0,05
TD0850026JCR00	8,5	8,9	12	16	26	40,9	8	KTD6.0-9.9	✓	0,05
TD0900027JCR00	9,0	9,4	12	16	27	42,8	9	KTD6.0-9.9	✓	0,06
TD0950029JCR00	9,5	9,9	12	16	29	44,3	9	KTD6.0-9.9	✓	0,06
TD1000030JDR00	10,0	10,4	16	20	30	46,2	10	KTD10.0-19.9	✓	0,09
TD1050032JDR00	10,5	10,9	16	20	32	47,7	10	KTD10.0-19.9	✓	0,10
TD1100033JDR00	11,0	11,4	16	20	33	49,6	11	KTD10.0-19.9	✓	0,10
TD1150035JDR00	11,5	11,9	16	20	35	51,1	11	KTD10.0-19.9	✓	0,11
TD1200036JDR00	12,0	12,4	16	20	36	53,0	12	KTD10.0-19.9	✓	0,11
TD1250037JDR00	12,5	12,9	16	20	37	54,5	12	KTD10.0-19.9	✓	0,11
TD1300039JDR00	13,0	13,4	16	20	39	56,6	13	KTD10.0-19.9	✓	0,12
TD1350041JDR00	13,5	13,9	16	20	41	58,1	13	KTD10.0-19.9	✓	0,12
TD1400042JDR00	14,0	14,4	16	20	42	62,1	14	KTD10.0-19.9	✓	0,13
TD1450044JDR00	14,5	14,9	16	20	44	63,6	14	KTD10.0-19.9	✓	0,13
TD1500045JER00	15,0	15,9	20	25	45	68,7	15	KTD10.0-19.9	✓	0,18
TD1600048JER00	16,0	16,9	20	25	48	73,3	16	KTD10.0-19.9	✓	0,19
TD1700051JER00	17,0	17,9	20	25	51	77,9	17	KTD10.0-19.9	✓	0,20
TD1800054JFR00	18,0	18,9	25	32	54	82,5	18	KTD10.0-19.9	✓	0,32
TD1900057JFR00	19,0	19,9	25	32	57	87,0	19	KTD10.0-19.9	✓	0,34
TD2000060JFR00	20,0	20,9	25	32	60	91,6	20	KTD20.0-26.9	✓	0,35
TD2100063JFR00	21,0	21,9	25	32	63	96,2	21	KTD20.0-26.9	✓	0,36
TD2200066JFR00	22,0	22,9	25	32	66	100,8	22	KTD20.0-26.9	✓	0,37
TD2300069JGR00	23,0	23,9	32	42	69	105,4	23	KTD20.0-26.9	✓	0,45
TD2400072JGR00	24,0	24,9	32	42	72	109,9	24	KTD20.0-26.9	✓	0,49
TD2500075JGR00	25,0	25,9	32	42	75	114,5	25	KTD20.0-26.9	✓	0,53

ADAPTION ACC. TO DIN 1835 B
 ATTACHEMENT COMPATIBLE DIN 1835 B



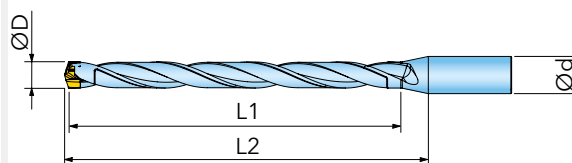
Designation Réf. de l'article	D min.	D max.	d	d1	L1	L2	BN	Key Clé	IK	kg
TD0700035JCR00	7,0	7,4	12	16	35	49,6	7	KTD6.0-9.9	✓	0,05
TD0750038JCR00	7,5	7,9	12	16	38	52,1	7	KTD6.0-9.9	✓	0,05
TD0800040JCR00	8,0	8,4	12	16	40	55,4	8	KTD6.0-9.9	✓	0,06
TD0850043JCR00	8,5	8,9	12	16	43	57,9	8	KTD6.0-9.9	✓	0,06
TD0900045JCR00	9,0	9,4	12	16	45	60,8	9	KTD6.0-9.9	✓	0,07
TD0950048JCR00	9,5	9,9	12	16	48	63,3	9	KTD6.0-9.9	✓	0,07
TD1000050JDR00	10,0	10,4	16	20	50	66,2	10	KTD10.0-19.9	✓	0,10
TD1050053JDR00	10,5	10,9	16	20	53	68,7	10	KTD10.0-19.9	✓	0,11
TD1100055JDR00	11,0	11,4	16	20	55	71,6	11	KTD10.0-19.9	✓	0,11
TD1150058JDR00	11,5	11,9	16	20	58	74,1	11	KTD10.0-19.9	✓	0,12
TD1200060JDR00	12,0	12,4	16	20	60	77,0	12	KTD10.0-19.9	✓	0,12
TD1250062JDR00	12,5	12,9	16	20	62	79,5	12	KTD10.0-19.9	✓	0,12
TD1300065JDR00	13,0	13,4	16	20	65	82,6	13	KTD10.0-19.9	✓	0,13
TD1350068JDR00	13,5	13,9	16	20	68	85,1	13	KTD10.0-19.9	✓	0,13
TD1400070JDR00	14,0	14,4	16	20	70	90,2	14	KTD10.0-19.9	✓	0,14
TD1450073JDR00	14,5	14,9	16	20	73	92,7	14	KTD10.0-19.9	✓	0,15
TD1500075JER00	15,0	15,9	20	25	75	98,7	15	KTD10.0-19.9	✓	0,21
TD1600080JER00	16,0	16,9	20	25	80	105,3	16	KTD10.0-19.9	✓	0,22
TD1700085JER00	17,0	17,9	20	25	85	111,9	17	KTD10.0-19.9	✓	0,23
TD1800090JFR00	18,0	18,9	25	32	90	118,5	18	KTD10.0-19.9	✓	0,36
TD1900095JFR00	19,0	19,9	25	32	95	125,0	19	KTD10.0-19.9	✓	0,38
TD2000100JFR00	20,0	20,9	25	32	100	131,6	20	KTD20.0-26.9	✓	0,39
TD2100105JFR00	21,0	21,9	25	32	105	138,2	21	KTD20.0-26.9	✓	0,40
TD2200110JFR00	22,0	22,9	25	32	110	144,8	22	KTD20.0-26.9	✓	0,43
TD2300115JGR00	23,0	23,9	32	42	115	151,4	23	KTD20.0-26.9	✓	0,56
TD2400120JGR00	24,0	24,9	32	42	120	158,0	24	KTD20.0-26.9	✓	0,60
TD2500125JGR00	25,0	25,9	32	42	125	164,5	25	KTD20.0-26.9	✓	0,65

ADAPTION ACC. TO DIN 1835 B
 ATTACHEMENT COMPATIBLE DIN 1835 B



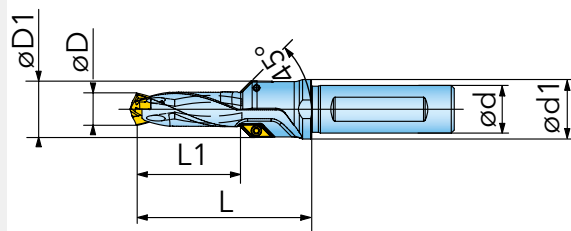
Designation Réf. de l'article	D min.	D max.	d	d1	L1	L2	BN	Key Clé	IK	kg
TD0700056JCR00	7,0	7,4	12	16	56	70,6	7	KTD6.0-9.9	✓	0,06
TD0750058JCR00	7,5	7,9	12	16	58	74,6	7	KTD6.0-9.9	✓	0,06
TD0800064JCR00	8,0	8,4	12	16	64	79,4	8	KTD6.0-9.9	✓	0,07
TD0850068JCR00	8,5	8,9	12	16	68	84,4	8	KTD6.0-9.9	✓	0,07
TD0900072JCR00	9,0	9,4	12	16	72	87,8	9	KTD6.0-9.9	✓	0,08
TD0950076JCR00	9,5	9,9	12	16	76	92,7	9	KTD6.0-9.9	✓	0,08
TD1000080JDR00	10,0	10,4	16	20	80	96,2	10	KTD10.0-19.9	✓	0,11
TD1050084JDR00	10,5	10,9	16	20	84	100,2	10	KTD10.0-19.9	✓	0,12
TD1100088JDR00	11,0	11,4	16	20	88	104,6	11	KTD10.0-19.9	✓	0,12
TD1150092JDR00	11,5	11,9	16	20	92	108,6	11	KTD10.0-19.9	✓	0,13
TD1200096JDR00	12,0	12,4	16	20	96	113,0	12	KTD10.0-19.9	✓	0,13
TD1250100JDR00	12,5	12,9	16	20	100	117,0	12	KTD10.0-19.9	✓	0,13
TD1300104JDR00	13,0	13,4	16	20	104	121,6	13	KTD10.0-19.9	✓	0,14
TD1350108JDR00	13,5	13,9	16	20	108	125,6	13	KTD10.0-19.9	✓	0,15
TD1400112JDR00	14,0	14,4	16	20	112	132,1	14	KTD10.0-19.9	✓	0,16
TD1450116JDR00	14,5	14,9	16	20	116	136,2	14	KTD10.0-19.9	✓	0,18
TD1500120JER00	15,0	15,9	20	25	120	143,7	15	KTD10.0-19.9	✓	0,24
TD1600128JER00	16,0	16,9	20	25	128	153,3	16	KTD10.0-19.9	✓	0,26
TD1700136JER00	17,0	17,9	20	25	136	162,9	17	KTD10.0-19.9	✓	0,28
TD1800144JFR00	18,0	18,9	25	32	144	172,5	18	KTD10.0-19.9	✓	0,42
TD1900152JFR00	19,0	19,9	25	32	152	182,0	19	KTD10.0-19.9	✓	0,45
TD2000160JFR00	20,0	20,9	25	32	160	191,6	20	KTD20.0-26.9	✓	0,48
TD2100168JFR00	21,0	21,9	25	32	168	201,2	21	KTD20.0-26.9	✓	0,55
TD2200176JFR00	22,0	22,9	25	32	176	210,8	22	KTD20.0-26.9	✓	0,61
TD2300184JGR00	23,0	23,9	32	42	184	220,4	23	KTD20.0-26.9	✓	0,68
TD2400192JGR00	24,0	24,9	32	42	192	230,0	24	KTD20.0-26.9	✓	0,72
TD2500200JGR00	25,0	25,9	32	42	200	239,5	25	KTD20.0-26.9	✓	0,76

ADAPTION ACC. TO DIN 1835 A
 ATTACHEMENT COMPATIBLE DIN 1835 A



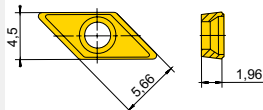
Designation Réf. de l'article	D min.	D max.	d	L1	L2	BN	Key Clé	IK	kg
TD1200144T3R00	12,0	12,4	16	144	161	12	KTD10.0-19.9	✓	0,14
TD1250150T3R00	12,5	12,9	16	150	167	12	KTD10.0-19.9	✓	0,14
TD1300156T3R00	13,0	13,4	16	156	173	13	KTD10.0-19.9	✓	0,15
TD1350162T3R00	13,5	13,9	16	162	179	13	KTD10.0-19.9	✓	0,15
TD1400168T3R00	14,0	14,4	16	168	188	14	KTD10.0-19.9	✓	0,17
TD1450174T3R00	14,5	14,9	16	174	194	14	KTD10.0-19.9	✓	0,20
TD1500180T4R00	15,0	15,9	20	180	210	15	KTD10.0-19.9	✓	0,27
TD1600192T4R00	16,0	16,9	20	192	224	16	KTD10.0-19.9	✓	0,30
TD1700204T4R00	17,0	17,9	20	204	238	17	KTD10.0-19.9	✓	0,32
TD1800216T5R00	18,0	18,9	25	216	252	18	KTD10.0-19.9	✓	0,48
TD1900228T5R00	19,0	19,9	25	228	266	19	KTD10.0-19.9	✓	0,52
TD2000240T5R00	20,0	20,9	25	240	280	20	KTD20.0-26.9	✓	0,57
TD2100252T5R00	21,0	21,9	25	252	294	21	KTD20.0-26.9	✓	0,65
TD2200264T5R00	22,0	22,9	25	264	308	22	KTD20.0-26.9	✓	0,75

ADAPTION ACC. TO DIN 1835 B
 ATTACHEMENT COMPATIBLE DIN 1835 B



Designation Réf. de l'article	D min.	D max.	D1	d	d1	L	L1	BN	Key Clé	IK	kg
TC0850026JCR01	8,5	8,9	15,5	12	16	50	26	8	KTD6.0-9.9	✓	0,07
TC1020030JDR01	10,0	10,4	17	16	20	54	30	10	KTD10.0-19.9	✓	0,08
TC1200035JDR01	12,0	12,4	19	16	20	61	35	12	KTD10.0-19.9	✓	0,10
TC1400039JER01	14,0	14,4	21	20	25	69	39	14	KTD10.0-19.9	✓	0,16
TC1750042JER01	17,0	17,9	24,5	20	27	72	42	17	KTD10.0-19.9	✓	0,23
TC2100048JFR01	21,0	21,9	28	25	32	80	48	21	KTD20.0-26.9	✓	0,30

KOMT050104R



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2005	IN2505						
KOMT050104R	0,08/0,20	chamfering geometry / Géométrie à chanfreiner									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS
ACCESSOIRES

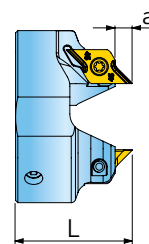
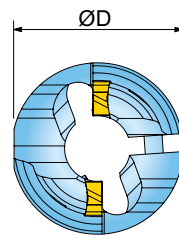


SM22-046-00

DS-T07S

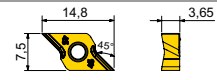
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

CHAMFER RING FOR GOLD-TWIST-DRILLS Ø10,0 - Ø25,9
BAGUE A CHANFREINER POUR LES FORETS GOLD TWIST



Designation Réf. de l'article	D	D min.	D max.	L	a
CB100R02	34	10,0	10,4	20	2
CB105R02	34	10,5	10,9	20	2
CB110R02	34	11,0	11,4	20	2
CB115R02	34	11,5	11,9	20	2
CB120R02	34	12,0	12,4	20	2
CB125R02	34	12,5	12,9	20	2
CB130R02	34	13,0	13,4	20	2
CB135R02	34	13,5	13,9	20	2
CB140R02	38	14,0	14,4	22	2
CB145R02	38	14,5	14,9	22	2
CB150R02	38	15,0	15,9	22	2
CB160R02	42	16,0	16,9	23	2
CB170R02	42	17,0	17,9	23	2
CB180R02	42	18,0	18,9	23	2
CB190R02	42	19,0	19,9	24	2
CB200R02	42	20,0	20,9	24	2
CB210R02	47	21,0	21,9	24	2
CB220R02	47	22,0	22,9	24	2
CB230R02	47	23,0	23,9	24	2
CB240R02	47	24,0	24,9	24	2
CB250R02	47	25,0	25,9	24	2

For Gold Twist head changeable drills 3xD, 5xD und 8xD / Pour les forets à embouts interchangeables Gold Twist 3xD, 5xD et 8xD

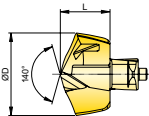
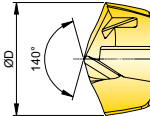
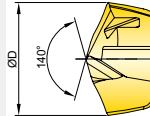
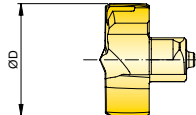
CRNG0802-45D											
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2505							
CRNG0802-45D	0,08/0,12	chamfering geometry / Géométrie à chanfreiner									

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES		①	②	③	④
					
Diameter Range / Diamètres					
34 - 38	SO 25061I	TD 7	SH M4x0.7x12 (4,0Nm) L-W 3		
42 - 47	SO 25061I	TD 7	SH M5x0.8x16 (6,5Nm) L-W 4		

① = Clamp screw / Vis de serrage ② = Screw driver / Tournevis ③ = Clamp screw / Vis de serrage plaquette ④ = Wrench / Clé de serrage

BORING HEADS OF GOLD-TWIST DRILLS / EMBOUTS POUR LES FORETS GOLD-TWIST

Cast Iron / Fonte		Stainless Steel / Aciers		Steel / Aciers inoxydables	
					
Flat Bottom / Fond Plat					
					
Designation / Réf. de l'article					
D	Cast Iron / Fonte	Stainless Steel / Aciers	Steel / Aciers inoxydables	Flat Bottom / Fond Plat	Grade / Nuance
7,0	TKA0700R01	TMA0700R01	TPA0700R01	TPF0700R01	IN 2505
7,1	TKA0710R01	TMA0710R01	TPA0710R01		IN 2505
7,2	TKA0720R01	TMA0720R01	TPA0720R01		IN 2505
7,3	TKA0730R01	TMA0730R01	TPA0730R01		IN 2505
7,4	TKA0740R01	TMA0740R01	TPA0740R01		IN 2505
7,5	TKA0750R01	TMA0750R01	TPA0750R01	TPF0750R01	IN 2505
7,6	TKA0760R01	TMA0760R01	TPA0760R01		IN 2505
7,7	TKA0770R01	TMA0770R01	TPA0770R01		IN 2505
7,8	TKA0780R01	TMA0780R01	TPA0780R01		IN 2505
7,9	TKA0790R01	TMA0790R01	TPA0790R01		IN 2505
8,0	TKA0800R01	TMA0800R01	TPA0800R01	TPF0800R01	IN 2505
8,1	TKA0810R01	TMA0810R01	TPA0810R01		IN 2505
8,2	TKA0820R01	TMA0820R01	TPA0820R01		IN 2505
8,3	TKA0830R01	TMA0830R01	TPA0830R01		IN 2505
8,4	TKA0840R01	TMA0840R01	TPA0840R01		IN 2505
8,5	TKA0850R01	TMA0850R01	TPA0850R01	TPF0850R01	IN 2505
8,6	TKA0860R01	TMA0860R01	TPA0860R01		IN 2505
8,7	TKA0870R01	TMA0870R01	TPA0870R01		IN 2505
8,8	TKA0880R01	TMA0880R01	TPA0880R01		IN 2505
8,9	TKA0890R01	TMA0890R01	TPA0890R01		IN 2505
9,0	TKA0900R01	TMA0900R01	TPA0900R01	TPF0900R01	IN 2505
9,1	TKA0910R01	TMA0910R01	TPA0910R01		IN 2505
9,2	TKA0920R01	TMA0920R01	TPA0920R01		IN 2505
9,3	TKA0930R01	TMA0930R01	TPA0930R01		IN 2505
9,4	TKA0940R01	TMA0940R01	TPA0940R01		IN 2505
9,5	TKA0950R01	TMA0950R01	TPA0950R01	TPF0950R01	IN 2505
9,6	TKA0960R01	TMA0960R01	TPA0960R01		IN 2505
9,7	TKA0970R01	TMA0970R01	TPA0970R01		IN 2505
9,8	TKA0980R01	TMA0980R01	TPA0980R01		IN 2505
9,9	TKA0990R01	TMA0990R01	TPA0990R01		IN 2505
10,0	TKA1000R01	TMA1000R01	TPA1000R01	TPF1000R01	IN 2505
10,1	TKA1010R01	TMA1010R01	TPA1010R01		IN 2505
10,2	TKA1020R01	TMA1020R01	TPA1020R01		IN 2505
10,3	TKA1030R01	TMA1030R01	TPA1030R01		IN 2505
10,4	TKA1040R01	TMA1040R01	TPA1040R01		IN 2505
10,5	TKA1050R01	TMA1050R01	TPA1050R01	TPF1050R01	IN 2505
10,6	TKA1060R01	TMA1060R01	TPA1060R01		IN 2505
10,7	TKA1070R01	TMA1070R01	TPA1070R01		IN 2505
10,8	TKA1080R01	TMA1080R01	TPA1080R01		IN 2505
10,9	TKA1090R01	TMA1090R01	TPA1090R01		IN 2505

BORING HEADS OF GOLD-TWIST DRILLS / EMBOUTS POUR LES FORETS GOLD-TWIST

D	Designation / Réf. de l'article				Grade / Nuance
	Cast Iron / Fonte	Stainless Steel / Aciers	Steel / Aciers inoxydables	Flat Bottom / Fond Plat	
11,0	TKA1100R01	TMA1100R01	TPA1100R01	TPF1100R01	IN 2505
11,1	TKA1110R01	TMA1110R01	TPA1110R01		IN 2505
11,2	TKA1120R01	TMA1120R01	TPA1120R01		IN 2505
11,3	TKA1130R01	TMA1130R01	TPA1130R01		IN 2505
11,4	TKA1140R01	TMA1140R01	TPA1140R01		IN 2505
11,5	TKA1150R01	TMA1150R01	TPA1150R01	TPF1150R01	IN 2505
11,6	TKA1160R01	TMA1160R01	TPA1160R01		IN 2505
11,7	TKA1170R01	TMA1170R01	TPA1170R01		IN 2505
11,8	TKA1180R01	TMA1180R01	TPA1180R01		IN 2505
11,9	TKA1190R01	TMA1190R01	TPA1190R01		IN 2505
12,0	TKA1200R01	TMA1200R01	TPA1200R01	TPF1200R01	IN 2505
12,1	TKA1210R01	TMA1210R01	TPA1210R01		IN 2505
12,2	TKA1220R01	TMA1220R01	TPA1220R01		IN 2505
12,3	TKA1230R01	TMA1230R01	TPA1230R01		IN 2505
12,4	TKA1240R01	TMA1240R01	TPA1240R01		IN 2505
12,5	TKA1250R01	TMA1250R01	TPA1250R01	TPF1250R01	IN 2505
12,6	TKA1260R01	TMA1260R01	TPA1260R01		IN 2505
12,7	TKA1270R01	TMA1270R01	TPA1270R01		IN 2505
12,8	TKA1280R01	TMA1280R01	TPA1280R01		IN 2505
12,9	TKA1290R01	TMA1290R01	TPA1290R01		IN 2505
13,0	TKA1300R01	TMA1300R01	TPA1300R01	TPF1300R01	IN 2505
13,1	TKA1310R01	TMA1310R01	TPA1310R01		IN 2505
13,2	TKA1320R01	TMA1320R01	TPA1320R01		IN 2505
13,3	TKA1330R01	TMA1330R01	TPA1330R01		IN 2505
13,4	TKA1340R01	TMA1340R01	TPA1340R01		IN 2505
13,5	TKA1350R01	TMA1350R01	TPA1350R01	TPF1350R01	IN 2505
13,6	TKA1360R01	TMA1360R01	TPA1360R01		IN 2505
13,7	TKA1370R01	TMA1370R01	TPA1370R01		IN 2505
13,8	TKA1380R01	TMA1380R01	TPA1380R01		IN 2505
13,9	TKA1390R01	TMA1390R01	TPA1390R01		IN 2505
14,0	TKA1400R01	TMA1400R01	TPA1400R01	TPF1400R01	IN 2505
14,1	TKA1410R01	TMA1410R01	TPA1410R01		IN 2505
14,2	TKA1420R01	TMA1420R01	TPA1420R01		IN 2505
14,3	TKA1430R01	TMA1430R01	TPA1430R01		IN 2505
14,4	TKA1440R01	TMA1440R01	TPA1440R01		IN 2505
14,5	TKA1450R01	TMA1450R01	TPA1450R01	TPF1450R01	IN 2505
14,6	TKA1460R01	TMA1460R01	TPA1460R01		IN 2505
14,7	TKA1470R01	TMA1470R01	TPA1470R01		IN 2505
14,8	TKA1480R01	TMA1480R01	TPA1480R01		IN 2505
14,9	TKA1490R01	TMA1490R01	TPA1490R01		IN 2505
15,0	TKA1500R01	TMA1500R01	TPA1500R01	TPF1500R01	IN 2505
15,1	TKA1510R01	TMA1510R01	TPA1510R01		IN 2505
15,2	TKA1520R01	TMA1520R01	TPA1520R01		IN 2505
15,3	TKA1530R01	TMA1530R01	TPA1530R01		IN 2505
15,4	TKA1540R01	TMA1540R01	TPA1540R01		IN 2505
15,5	TKA1550R01	TMA1550R01	TPA1550R01	TPF1550R01	IN 2505
15,6	TKA1560R01	TMA1560R01	TPA1560R01		IN 2505
15,7	TKA1570R01	TMA1570R01	TPA1570R01		IN 2505
15,8	TKA1580R01	TMA1580R01	TPA1580R01		IN 2505
15,9	TKA1590R01	TMA1590R01	TPA1590R01		IN 2505

BORING HEADS OF GOLD-TWIST DRILLS / EMBOUTS POUR LES FORETS GOLD-TWIST

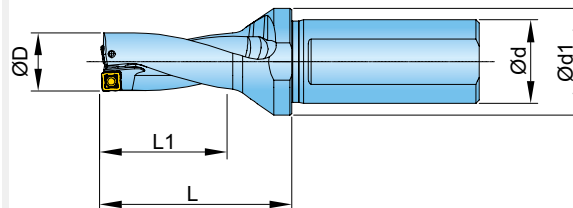
D	Designation / Réf. de l'article				Grade / Nuance
	Cast Iron / Fonte	Stainless Steel / Aciers	Steel / Aciers inoxydables	Flat Bottom / Fond Plat	
16,0	TKA1600R01	TMA1600R01	TPA1600R01	TPF1600R01	IN 2505
16,1	TKA1610R01	TMA1610R01	TPA1610R01		IN 2505
16,2	TKA1620R01	TMA1620R01	TPA1620R01		IN 2505
16,3	TKA1630R01	TMA1630R01	TPA1630R01		IN 2505
16,4	TKA1640R01	TMA1640R01	TPA1640R01		IN 2505
16,5	TKA1650R01	TMA1650R01	TPA1650R01	TPF1650R01	IN 2505
16,6	TKA1660R01	TMA1660R01	TPA1660R01		IN 2505
16,7	TKA1670R01	TMA1670R01	TPA1670R01		IN 2505
16,8	TKA1680R01	TMA1680R01	TPA1680R01		IN 2505
16,9	TKA1690R01	TMA1690R01	TPA1690R01		IN 2505
17,0	TKA1700R01	TMA1700R01	TPA1700R01	TPF1700R01	IN 2505
17,1	TKA1710R01	TMA1710R01	TPA1710R01		IN 2505
17,2	TKA1720R01	TMA1720R01	TPA1720R01		IN 2505
17,3	TKA1730R01	TMA1730R01	TPA1730R01		IN 2505
17,4	TKA1740R01	TMA1740R01	TPA1740R01		IN 2505
17,5	TKA1750R01	TMA1750R01	TPA1750R01	TPF1750R01	IN 2505
17,6	TKA1760R01	TMA1760R01	TPA1760R01		IN 2505
17,7	TKA1770R01	TMA1770R01	TPA1770R01		IN 2505
17,8	TKA1780R01	TMA1780R01	TPA1780R01		IN 2505
17,9	TKA1790R01	TMA1790R01	TPA1790R01		IN 2505
18,0	TKA1800R01	TMA1800R01	TPA1800R01	TPF1800R01	IN 2505
18,1	TKA1810R01	TMA1810R01	TPA1810R01		IN 2505
18,2	TKA1820R01	TMA1820R01	TPA1820R01		IN 2505
18,3	TKA1830R01	TMA1830R01	TPA1830R01		IN 2505
18,4	TKA1840R01	TMA1840R01	TPA1840R01		IN 2505
18,5	TKA1850R01	TMA1850R01	TPA1850R01	TPF1850R01	IN 2505
18,6	TKA1860R01	TMA1860R01	TPA1860R01		IN 2505
18,7	TKA1870R01	TMA1870R01	TPA1870R01		IN 2505
18,8	TKA1880R01	TMA1880R01	TPA1880R01		IN 2505
18,9	TKA1890R01	TMA1890R01	TPA1890R01		IN 2505
19,0	TKA1900R01	TMA1900R01	TPA1900R01	TPF1900R01	IN 2505
19,1	TKA1910R01	TMA1910R01	TPA1910R01		IN 2505
19,2	TKA1920R01	TMA1920R01	TPA1920R01		IN 2505
19,3	TKA1930R01	TMA1930R01	TPA1930R01		IN 2505
19,4	TKA1940R01	TMA1940R01	TPA1940R01		IN 2505
19,5	TKA1950R01	TMA1950R01	TPA1950R01	TPF1950R01	IN 2505
19,6	TKA1960R01	TMA1960R01	TPA1960R01		IN 2505
19,7	TKA1970R01	TMA1970R01	TPA1970R01		IN 2505
19,8	TKA1980R01	TMA1980R01	TPA1980R01		IN 2505
19,9	TKA1990R01	TMA1990R01	TPA1990R01		IN 2505
20,0	TKA2000R01	TMA2000R01	TPA2000R01	TPF2000R01	IN 2505
20,1	TKA2010R01	TMA2010R01	TPA2010R01		IN 2505
20,2	TKA2020R01	TMA2020R01	TPA2020R01		IN 2505
20,3	TKA2030R01	TMA2030R01	TPA2030R01		IN 2505
20,4	TKA2040R01	TMA2040R01	TPA2040R01		IN 2505
20,5	TKA2050R01	TMA2050R01	TPA2050R01	TPF2050R01	IN 2505
20,6	TKA2060R01	TMA2060R01	TPA2060R01		IN 2505
20,7	TKA2070R01	TMA2070R01	TPA2070R01		IN 2505
20,8	TKA2080R01	TMA2080R01	TPA2080R01		IN 2505
20,9	TKA2090R01	TMA2090R01	TPA2090R01		IN 2505



BORING HEADS OF GOLD-TWIST DRILLS / EMBOUTS POUR LES FORETS GOLD-TWIST

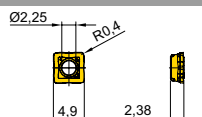
D	Designation / Réf. de l'article				Grade / Nuance
	Cast Iron / Fonte	Stainless Steel / Aciers	Steel / Aciers inoxydables	Flat Bottom / Fond Plat	
21,0	TKA2100R01	TMA2100R01	TPA2100R01	TPF2100R01	IN 2505
21,1	TKA2110R01	TMA2110R01	TPA2110R01		IN 2505
21,2	TKA2120R01	TMA2120R01	TPA2120R01		IN 2505
21,3	TKA2130R01	TMA2130R01	TPA2130R01		IN 2505
21,4	TKA2140R01	TMA2140R01	TPA2140R01		IN 2505
21,5	TKA2150R01	TMA2150R01	TPA2150R01	TPF2150R01	IN 2505
21,6	TKA2160R01	TMA2160R01	TPA2160R01		IN 2505
21,7	TKA2170R01	TMA2170R01	TPA2170R01		IN 2505
21,8	TKA2180R01	TMA2180R01	TPA2180R01		IN 2505
21,9	TKA2190R01	TMA2190R01	TPA2190R01		IN 2505
22,0	TKA2200R01	TMA2200R01	TPA2200R01	TPF2200R01	IN 2505
22,1	TKA2210R01	TMA2210R01	TPA2210R01		IN 2505
22,2	TKA2220R01	TMA2220R01	TPA2220R01		IN 2505
22,3	TKA2230R01	TMA2230R01	TPA2230R01		IN 2505
22,4	TKA2240R01	TMA2240R01	TPA2240R01		IN 2505
22,5	TKA2250R01	TMA2250R01	TPA2250R01	TPF2250R01	IN 2505
22,6	TKA2260R01	TMA2260R01	TPA2260R01		IN 2505
22,7	TKA2270R01	TMA2270R01	TPA2270R01		IN 2505
22,8	TKA2280R01	TMA2280R01	TPA2280R01		IN 2505
22,9	TKA2290R01	TMA2290R01	TPA2290R01		IN 2505
23,0	TKA2300R01	TMA2300R01	TPA2300R01	TPF2300R01	IN 2505
23,1	TKA2310R01	TMA2310R01	TPA2310R01		IN 2505
23,2	TKA2320R01	TMA2320R01	TPA2320R01		IN 2505
23,3	TKA2330R01	TMA2330R01	TPA2330R01		IN 2505
23,4	TKA2340R01	TMA2340R01	TPA2340R01		IN 2505
23,5	TKA2350R01	TMA2350R01	TPA2350R01	TPF2350R01	IN 2505
23,6	TKA2360R01	TMA2360R01	TPA2360R01		IN 2505
23,7	TKA2370R01	TMA2370R01	TPA2370R01		IN 2505
23,8	TKA2380R01	TMA2380R01	TPA2380R01		IN 2505
23,9	TKA2390R01	TMA2390R01	TPA2390R01		IN 2505
24,0	TKA2400R01	TMA2400R01	TPA2400R01	TPF2400R01	IN 2505
24,1	TKA2410R01	TMA2410R01	TPA2410R01		IN 2505
24,2	TKA2420R01	TMA2420R01	TPA2420R01		IN 2505
24,3	TKA2430R01	TMA2430R01	TPA2430R01		IN 2505
24,4	TKA2440R01	TMA2440R01	TPA2440R01		IN 2505
24,5	TKA2450R01	TMA2450R01	TPA2450R01	TPF2450R01	IN 2505
24,6	TKA2460R01	TMA2460R01	TPA2460R01		IN 2505
24,7	TKA2470R01	TMA2470R01	TPA2470R01		IN 2505
24,8	TKA2480R01	TMA2480R01	TPA2480R01		IN 2505
24,9	TKA2490R01	TMA2490R01	TPA2490R01		IN 2505
25,0	TKA2500R01	TMA2500R01	TPA2500R01	TPF2500R01	IN 2505
25,1	TKA2510R01	TMA2510R01	TPA2510R01		IN 2505
25,2	TKA2520R01	TMA2520R01	TPA2520R01		IN 2505
25,3	TKA2530R01	TMA2530R01	TPA2530R01		IN 2505
25,4	TKA2540R01	TMA2540R01	TPA2540R01		IN 2505
25,5	TKA2550R01	TMA2550R01	TPA2550R01	TPF2550R01	IN 2505
25,6	TKA2560R01	TMA2560R01	TPA2560R01		IN 2505
25,7	TKA2570R01	TMA2570R01	TPA2570R01		IN 2505
25,8	TKA2580R01	TMA2580R01	TPA2580R01		IN 2505
25,9	TKA2590R01	TMA2590R01	TPA2590R01		IN 2505

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B

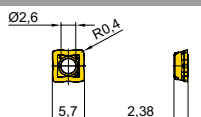


Designation Réf. de l'article	D	d	d1	L	L1	Z	Zeff	IK	kg	Related Insert Plaquette préconisée
QR0140028JER00	14,0	20	25	46	28	2	1	✓	0,15	A
QR0150030JER00	15,0	20	25	49	30	2	1	✓	0,15	A
QR0160032JER00	16,0	20	25	52	32	2	1	✓	0,16	A
QR0170034JFR00	17,0	25	32	54	34	2	1	✓	0,27	B
QR0175036JFR00	17,5	25	32	57	36	2	1	✓	0,27	B
QR0180036JFR00	18,0	25	32	57	36	2	1	✓	0,27	B
QR0190038JFR00	19,0	25	32	59	38	2	1	✓	0,28	B
QR0195040JFR00	19,5	25	32	63	40	2	1	✓	0,29	C
QR0200040JFR00	20,0	25	32	63	40	2	1	✓	0,30	C
QR0210042JFR00	21,0	25	32	65	42	2	1	✓	0,30	C
QR0220044JFR00	22,0	25	32	67	44	2	1	✓	0,31	C
QR0230046JFR00	23,0	25	32	68	46	2	1	✓	0,31	D
QR0240048JFR00	24,0	25	32	70	48	2	1	✓	0,33	D
QR0250050JFR00	25,0	25	32	72	50	2	1	✓	0,33	D
QR0260052JFR00	26,0	25	32	73	52	2	1	✓	0,34	D

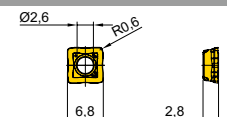
A SOMT050204SK



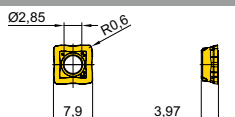
B SOMT060204SK



C SOMT070306SK



D SOMT08T306SK



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2505	IN2530	IN6505					
SOMT050204SK ¹⁾	0,04/0,18	positive geometry R0,4 / Géométrie positive R0,4									
SOMT060204SK ¹⁾	0,04/0,18	positive geometry R0,4 / Géométrie positive R0,4									
SOMT070306SK ¹⁾	0,04/0,20	positive geometry R0,6 / Géométrie positive R0,6									
SOMT08T306SK ¹⁾	0,04/0,20	positive geometry R0,6 / Géométrie positive R0,6									

¹⁾ Use IN6505 grade only for peripheral inserts / Le revêtement IN6505 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

**SPARE PARTS
ACCESSOIRES**

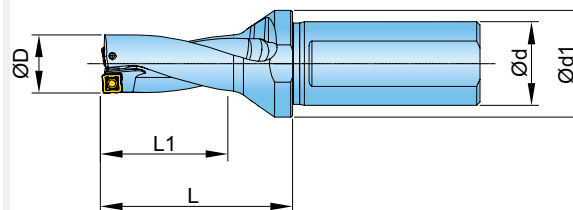


Diameter Range / Diamètres

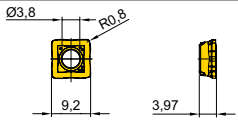
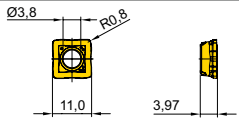
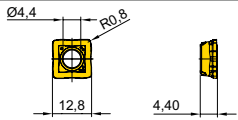
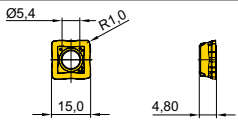
14,0 - 16,0	SM20-043-00 (0,7Nm) DS-TP06S (TX-Plus)
17,0 - 22,0	TS 22052/HG-P (0,8Nm) DS-TP07S (TX-Plus)
23,0 - 26,0	SO 25065I (1,1Nm) DS-T07S

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

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



Designation Réf. de l'article	D	d	d1	L	L1	Z	Zeff	IK	kg	Related Insert Plaquette préconisée
QR0270054JFR00	27,0	25	40	77	54	2	1	✓	0,49	A
QR0280056JFR00	28,0	25	40	79	56	2	1	✓	0,52	A
QR0290058JGR00	29,0	32	40	81	58	2	1	✓	0,66	A
QR0300060JGR00	30,0	32	40	83	60	2	1	✓	0,78	A
QR0310062JGR00	31,0	32	40	85	62	2	1	✓	0,81	A
QR0320064JGR00	32,0	32	40	87	64	2	1	✓	0,84	B
QR0330066JGR00	33,0	32	40	89	66	2	1	✓	0,87	B
QR0340068JGR00	34,0	32	40	91	68	2	1	✓	0,89	B
QR0350070JGR00	35,0	32	40	93	70	2	1	✓	0,92	B
QR0360072JGR00	36,0	32	40	95	72	2	1	✓	0,96	B
QR0370074JGR00	37,0	32	50	102	74	2	1	✓	0,97	C
QR0380076JGR00	38,0	32	50	104	76	2	1	✓	1,00	C
QR0390078JGR00	39,0	32	50	106	78	2	1	✓	1,05	C
QR0400080JGR00	40,0	32	50	108	80	2	1	✓	1,10	C
QR0410082JHR00	41,0	40	50	110	82	2	1	✓	1,48	C
QR0420084JHR00	42,0	40	50	112	84	2	1	✓	1,50	C
QR0430086JHR00	43,0	40	50	114	86	2	1	✓	1,55	C
QR0440088JHR00	44,0	40	60	123	88	2	1	✓	1,60	D
QR0450090JHR00	45,0	40	60	125	90	2	1	✓	1,66	D
QR0460092JHR00	46,0	40	60	127	92	2	1	✓	1,71	D
QR0470094JHR00	47,0	40	60	129	94	2	1	✓	1,76	D
QR0480096JHR00	48,0	40	60	131	96	2	1	✓	1,84	D
QR0490098JHR00	49,0	40	60	133	98	2	1	✓	1,86	D
QR0500100JHR00	50,0	40	60	135	100	2	1	✓	1,93	D

A SOMT09T308SK			B SOMT11T308SK			C SOMT130408SK			D SOMT150510SK		
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2505	IN2530	IN6505					
SOMT09T308SK ¹⁾	0,06/0,20	positive geometry R0,8 / Géométrie positive R0,8									
SOMT11T308SK ¹⁾	0,06/0,22	positive geometry R0,8 / Géométrie positive R0,8									
SOMT130408SK ¹⁾	0,06/0,22	positive geometry R0,8 / Géométrie positive R0,8									
SOMT150510SK ¹⁾	0,06/0,24	positive geometry R1,0 / Géométrie positive R1,0									

¹⁾ Use IN6505 grade only for peripheral inserts / Le revêtement IN6505 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES



Diameter Range / Diamètres

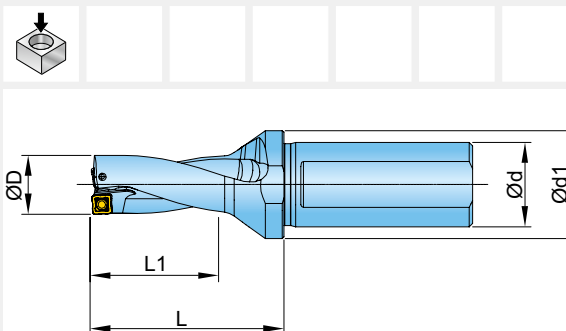
27,0 - 36,0 SM35-088-60 (3,0Nm) DS-T10S

37,0 - 43,0 SM40-093-20 (4,5Nm) DS-T15S

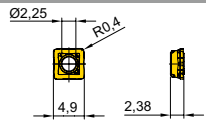
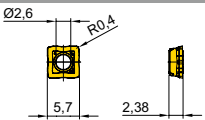
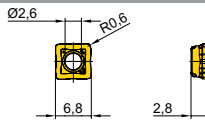
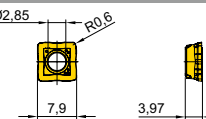
44,0 - 50,0 SM50-113-20 (8,0Nm) DS-T20S

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

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



Designation Réf. de l'article	D	d	d1	L	L1	Z	Zeff	IK	kg	Related Insert Plaquette préconisée
QR0140042JER00	14,0	20	25	60	42	2	1	✓	0,16	A
QR0145045JER00	14,5	20	25	64	45	2	1	✓	0,16	A
QR0150045JER00	15,0	20	25	64	45	2	1	✓	0,16	A
QR0155048JER00	15,5	20	25	68	48	2	1	✓	0,17	A
QR0160048JER00	16,0	20	25	68	48	2	1	✓	0,17	A
QR0165051JFR00	16,5	25	32	71	51	2	1	✓	0,28	B
QR0170051JFR00	17,0	25	32	71	51	2	1	✓	0,28	B
QR0175054JFR00	17,5	25	32	75	54	2	1	✓	0,28	B
QR0180054JFR00	18,0	25	32	75	54	2	1	✓	0,29	B
QR0185057JFR00	18,5	25	32	78	57	2	1	✓	0,29	B
QR0190057JFR00	19,0	25	32	78	57	2	1	✓	0,30	B
QR0195060JFR00	19,5	25	32	83	60	2	1	✓	0,31	C
QR0200060JFR00	20,0	25	32	83	60	2	1	✓	0,32	C
QR0205063JFR00	20,5	25	32	86	63	2	1	✓	0,32	C
QR0210063JFR00	21,0	25	32	86	63	2	1	✓	0,33	C
QR0215066JFR00	21,5	25	32	89	66	2	1	✓	0,33	C
QR0220066JFR00	22,0	25	32	89	66	2	1	✓	0,34	C
QR0225069JFR00	22,5	25	32	91	69	2	1	✓	0,34	D
QR0230069JFR00	23,0	25	32	91	69	2	1	✓	0,35	D
QR0235072JFR00	23,5	25	32	94	72	2	1	✓	0,36	D
QR0240072JFR00	24,0	25	32	94	72	2	1	✓	0,36	D
QR0245075JFR00	24,5	25	32	97	75	2	1	✓	0,37	D
QR0250075JFR00	25,0	25	32	97	75	2	1	✓	0,37	D
QR0255078JFR00	25,5	25	32	99	78	2	1	✓	0,38	D
QR0260078JFR00	26,0	25	32	99	78	2	1	✓	0,39	D

A SOMET050204SK		B SOMET060204SK		C SOMET070306SK		D SOMET08T306SK							
													
Designation Réf. de l'article		Design Execution		Grade Nuance	IN2505	IN2530	IN6505						
SOMET050204SK ¹⁾		0,04/0,18		positive geometry R0,4 / Géométrie positive R0,4									
SOMET060204SK ¹⁾		0,04/0,18		positive geometry R0,4 / Géométrie positive R0,4									
SOMET070306SK ¹⁾		0,04/0,20		positive geometry R0,6 / Géométrie positive R0,6									
SOMET08T306SK ¹⁾		0,04/0,20		positive geometry R0,6 / Géométrie positive R0,6									

¹⁾ Use IN6505 grade only for peripheral inserts / Le revêtement IN6505 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES

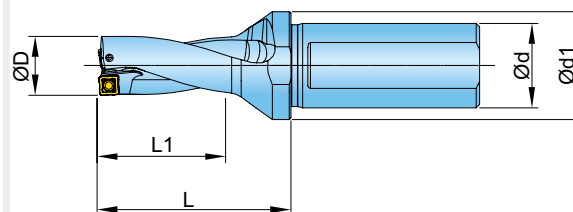


Diameter Range / Diamètres

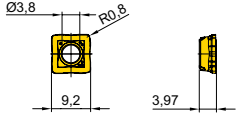
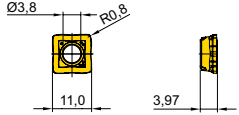
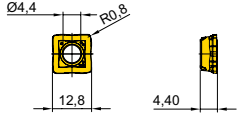
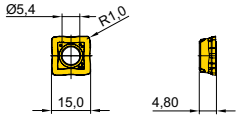
14,0 - 16,0	SM20-043-00 (0,7Nm) DS-TP06S (TX-Plus)
16,5 - 22,0	TS 22052I/HG-P (0,8Nm) DS-TP07S (TX-Plus)
22,5 - 26,0	SO 25065I (1,1Nm) DS-T07S

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

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



Designation Réf. de l'article	D	d	d1	L	L1	Z	Z _{eff}	IK	kg	Related Insert Plaquette préconisée
QR0265081JFR00	26,5	25	40	104	81	2	1	✓	0,53	A
QR0270081JFR00	27,0	25	40	104	81	2	1	✓	0,53	A
QR0275084JFR00	27,5	25	40	107	84	2	1	✓	0,56	A
QR0280084JFR00	28,0	25	40	107	84	2	1	✓	0,56	A
QR0285087JGR00	28,5	32	40	110	87	2	1	✓	0,75	A
QR0290087JGR00	29,0	32	40	110	87	2	1	✓	0,75	A
QR0295090JGR00	29,5	32	40	113	90	2	1	✓	0,85	A
QR0300090JGR00	30,0	32	40	113	90	2	1	✓	0,85	A
QR0310093JGR00	31,0	32	40	116	93	2	1	✓	0,90	A
QR0320096JGR00	32,0	32	40	119	96	2	1	✓	0,93	B
QR0330099JGR00	33,0	32	40	122	99	2	1	✓	0,97	B
QR0340102JGR00	34,0	32	40	125	102	2	1	✓	1,01	B
QR0345105JGR00	34,5	32	40	128	105	2	1	✓	1,04	B
QR0350105JGR00	35,0	32	40	128	105	2	1	✓	1,04	B
QR0360108JGR00	36,0	32	40	131	108	2	1	✓	1,07	B
QR0370111JGR00	37,0	32	50	139	111	2	1	✓	1,12	C
QR0375114JGR00	37,5	32	50	142	114	2	1	✓	1,17	C
QR0380114JGR00	38,0	32	50	142	114	2	1	✓	1,17	C
QR0390117JGR00	39,0	32	50	145	117	2	1	✓	1,23	C
QR0400120JGR00	40,0	32	50	148	120	2	1	✓	1,31	C
QR0405123JGR00	40,5	40	50	151	123	2	1	✓	1,48	C
QR0410123JHR00	41,0	40	50	151	123	2	1	✓	1,48	C
QR0420126JHR00	42,0	40	50	154	126	2	1	✓	1,62	C
QR0430129JHR00	43,0	40	50	157	129	2	1	✓	1,78	C
QR0440132JHR00	44,0	40	60	167	132	2	1	✓	1,83	D
QR0450135JHR00	45,0	40	60	170	135	2	1	✓	1,92	D
QR0460138JHR00	46,0	40	60	173	138	2	1	✓	1,99	D
QR0465141JHR00	46,5	40	60	176	141	2	1	✓	2,05	D
QR0470141JHR00	47,0	40	60	176	141	2	1	✓	2,05	D
QR0480144JHR00	48,0	40	60	179	144	2	1	✓	2,11	D
QR0490147JHR00	49,0	40	60	182	147	2	1	✓	2,16	D
QR0500150JHR00	50,0	40	60	185	150	2	1	✓	2,26	D
QR0505153JHR00	50,5	40	60	188	153	2	1	✓	2,30	D

A SOMT09T308SK			B SOMT11T308SK			C SOMT130408SK			D SOMT150510SK		
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2505	IN2530	IN6505					
SOMT09T308SK ¹⁾	0,06/0,20	positive geometry R0,8 / Géométrie positive R0,8									
SOMT11T308SK ¹⁾	0,06/0,22	positive geometry R0,8 / Géométrie positive R0,8									
SOMT130408SK ¹⁾	0,06/0,22	positive geometry R0,8 / Géométrie positive R0,8									
SOMT150510SK ¹⁾	0,06/0,24	positive geometry R1,0 / Géométrie positive R1,0									

¹⁾ Use IN6505 grade only for peripheral inserts / Le revêtement IN6505 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES



Diameter Range / Diamètres

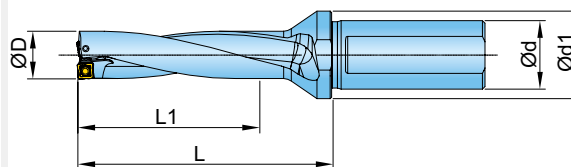
26,5 - 36,0 SM35-088-60 (3,0Nm) DS-T10S

37,0 - 43,0 SM40-093-20 (4,5Nm) DS-T15S

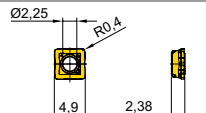
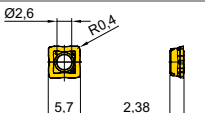
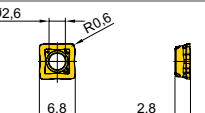
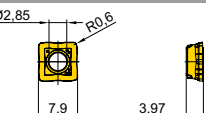
44,0 - 50,5 SM50-113-20 (8,0Nm) DS-T20S

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

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



Designation Réf. de l'article	D	d	d1	L	L1	Z	Z _{eff}	IK	kg	Related Insert Plaquette préconisée
QR0140056JER00	14,0	20	25	74	56	2	1	✓	0,16	A
QR0150060JER00	15,0	20	25	79	60	2	1	✓	0,17	A
QR0160064JER00	16,0	20	25	84	64	2	1	✓	0,18	A
QR0170068JFR00	17,0	25	32	88	68	2	1	✓	0,29	B
QR0175072JFR00	17,5	25	32	93	72	2	1	✓	0,30	B
QR0180072JFR00	18,0	25	32	93	72	2	1	✓	0,30	B
QR0190076JFR00	19,0	25	32	97	76	2	1	✓	0,32	B
QR0195080JFR00	19,5	25	32	103	80	2	1	✓	0,34	C
QR0200080JFR00	20,0	25	32	103	80	2	1	✓	0,34	C
QR0210084JFR00	21,0	25	32	107	84	2	1	✓	0,35	C
QR0220088JFR00	22,0	25	32	111	88	2	1	✓	0,37	C
QR0230092JFR00	23,0	25	32	114	92	2	1	✓	0,38	D
QR0240096JFR00	24,0	25	32	118	96	2	1	✓	0,41	D
QR0250100JFR00	25,0	25	32	122	100	2	1	✓	0,42	D
QR0260104JFR00	26,0	25	32	125	104	2	1	✓	0,45	D

A SOMET050204SK		B SOMET060204SK		C SOMET070306SK							
											
D SOMET08T306SK											
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2505	IN2530	IN6505					
SOMET050204SK ¹⁾	0,04/0,18	positive geometry R0,4 / Géométrie positive R0,4									
SOMET060204SK ¹⁾	0,04/0,18	positive geometry R0,4 / Géométrie positive R0,4									
SOMET070306SK ¹⁾	0,04/0,20	positive geometry R0,6 / Géométrie positive R0,6									
SOMET08T306SK ¹⁾	0,04/0,20	positive geometry R0,6 / Géométrie positive R0,6									

¹⁾ Use IN6505 grade only for peripheral inserts / Le revêtement IN6505 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES



Diameter Range / Diamètres

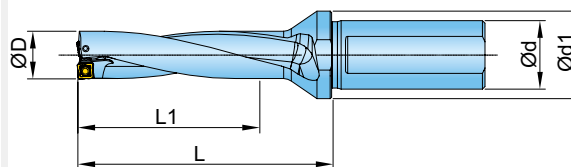
14,0 - 16,0 SM20-043-00 (0,7Nm) DS-TP06S (TX-Plus)

17,0 - 22,0 TS 22052/HG-P (0,8Nm) DS-TP07S (TX-Plus)

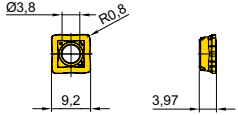
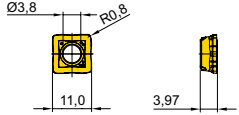
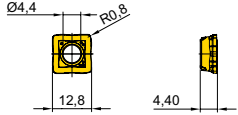
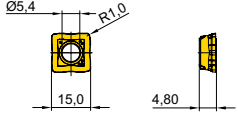
23,0 - 26,0 SO 25065I (1,1Nm) DS-T07S

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

ADAPTION ACC. TO DIN 1835 B
 ATTACHEMENT COMPATIBLE DIN 1835 B



Designation Réf. de l'article	D	d	d1	L	L1	Z	Zeff	IK	kg	Related Insert Plaquette préconisée
QR0270108JFR00	27,0	25	40	131	108	2	1	✓	0,59	A
QR0280112JFR00	28,0	25	40	135	112	2	1	✓	0,62	A
QR0290116JGR00	29,0	32	40	139	116	2	1	✓	0,80	A
QR0300120JGR00	30,0	32	40	143	120	2	1	✓	0,94	A
QR0310124JGR00	31,0	32	40	147	124	2	1	✓	0,97	A
QR0320128JGR00	32,0	32	40	151	128	2	1	✓	1,04	B
QR0330132JGR00	33,0	32	40	155	132	2	1	✓	1,09	B
QR0340136JGR00	34,0	32	40	159	136	2	1	✓	1,13	B
QR0350140JGR00	35,0	32	40	163	140	2	1	✓	1,17	B
QR0360144JGR00	36,0	32	40	167	144	2	1	✓	1,23	B
QR0370148JGR00	37,0	32	50	176	148	2	1	✓	1,29	C
QR0380152JGR00	38,0	32	50	180	152	2	1	✓	1,34	C
QR0390156JGR00	39,0	32	50	184	156	2	1	✓	1,41	C
QR0400160JGR00	40,0	32	50	188	160	2	1	✓	1,50	C
QR0410164JHR00	41,0	40	50	192	164	2	1	✓	1,86	C
QR0420168JHR00	42,0	40	50	196	168	2	1	✓	1,94	C
QR0430172JHR00	43,0	40	50	200	172	2	1	✓	2,02	C
QR0440176JHR00	44,0	40	60	211	176	2	1	✓	2,10	D
QR0450180JHR00	45,0	40	60	215	180	2	1	✓	2,19	D
QR0460184JHR00	46,0	40	60	219	184	2	1	✓	2,30	D
QR0470188JHR00	47,0	40	60	223	188	2	1	✓	2,37	D
QR0480192JHR00	48,0	40	60	227	192	2	1	✓	2,47	D
QR0490196JHR00	49,0	40	60	231	196	2	1	✓	2,59	D
QR0500200JHR00	50,0	40	60	235	200	2	1	✓	2,64	D

A SOMT09T308SK			B SOMT11T308SK			C SOMT130408SK			D SOMT150510SK		
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2505	IN2530	IN6505					
SOMT09T308SK ¹⁾	0,06/0,20	positive geometry R0,8 / Géométrie positive R0,8									
SOMT11T308SK ¹⁾	0,06/0,22	positive geometry R0,8 / Géométrie positive R0,8									
SOMT130408SK ¹⁾	0,06/0,22	positive geometry R0,8 / Géométrie positive R0,8									
SOMT150510SK ¹⁾	0,06/0,24	positive geometry R1,0 / Géométrie positive R1,0									

¹⁾ Use IN6505 grade only for peripheral inserts / Le revêtement IN6505 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES



Diameter Range / Diamètres

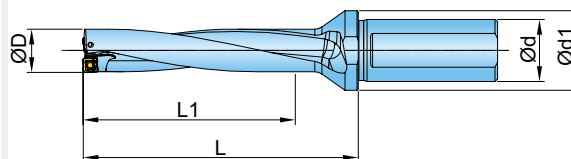
27,0 - 36,0 SM35-088-60 (3,0Nm) DS-T10S

37,0 - 43,0 SM40-093-20 (4,5Nm) DS-T15S

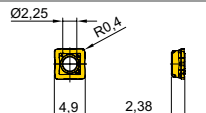
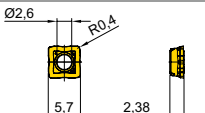
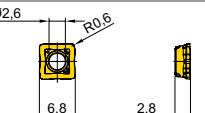
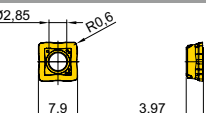
44,0 - 50,0 SM50-113-20 (8,0Nm) DS-T20S

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

ADAPTION ACC. TO DIN 1835 B
 ATTACHEMENT COMPATIBLE DIN 1835 B



Designation Réf. de l'article	D	d	d1	L	L1	Z	Z _{eff}	IK	kg	Related Insert Plaquette préconisée
QR0140070JER00	14,0	20	25	88	70	2	1	✓	0,17	A
QR0150075JER00	15,0	20	25	94	75	2	1	✓	0,18	A
QR0160080JER00	16,0	20	25	100	80	2	1	✓	0,19	A
QR0170085JFR00	17,0	25	32	105	85	2	1	✓	0,31	B
QR0180090JFR00	18,0	25	32	111	90	2	1	✓	0,32	B
QR0190095JFR00	19,0	25	32	116	95	2	1	✓	0,34	B
QR0200100JFR00	20,0	25	32	123	100	2	1	✓	0,36	C
QR0210105JFR00	21,0	25	32	128	105	2	1	✓	0,38	C
QR0220110JFR00	22,0	25	32	133	110	2	1	✓	0,40	C
QR0230115JFR00	23,0	25	32	137	115	2	1	✓	0,42	D
QR0240120JFR00	24,0	25	32	142	120	2	1	✓	0,45	D
QR0250125JFR00	25,0	25	32	147	125	2	1	✓	0,46	D
QR0260130JFR00	26,0	25	32	151	130	2	1	✓	0,50	D

A SOMET050204SK		B SOMET060204SK		C SOMET070306SK		D SOMET08T306SK					
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2505	IN2530	IN6505					
SOMET050204SK ¹⁾	0,04/0,18	positive geometry R0,4 / Géométrie positive R0,4									
SOMET060204SK ¹⁾	0,04/0,18	positive geometry R0,4 / Géométrie positive R0,4									
SOMET070306SK ¹⁾	0,04/0,20	positive geometry R0,6 / Géométrie positive R0,6									
SOMET08T306SK ¹⁾	0,04/0,20	positive geometry R0,6 / Géométrie positive R0,6									

¹⁾ Use IN6505 grade only for peripheral inserts / Le revêtement IN6505 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES

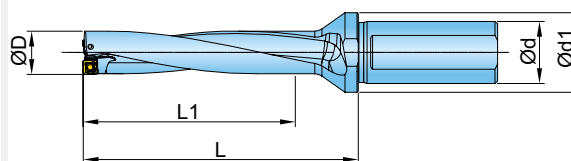


Diameter Range / Diamètres

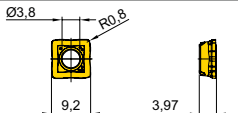
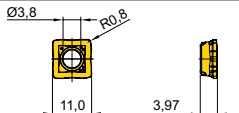
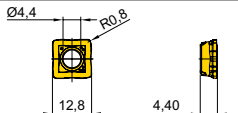
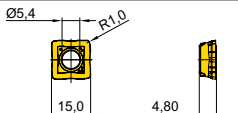
14,0 - 16,0	SM20-043-00 (0,7Nm) DS-TP06S (TX-Plus)
17,0 - 22,0	TS 22052I/HG-P (0,8Nm) DS-TP07S (TX-Plus)
23,0 - 26,0	SO 25065I (1,1Nm) DS-T07S

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

ADAPTION ACC. TO DIN 1835 B
 ATTACHEMENT COMPATIBLE DIN 1835 B



Designation Réf. de l'article	D	d	d1	L	L1	Z	Zeff	IK	kg	Related Insert Plaquette préconisée
QR0270135JFR00	27,0	25	40	158	135	2	1	✓	0,65	A
QR0280140JFR00	28,0	25	40	163	140	2	1	✓	0,68	A
QR0290145JGR00	29,0	32	40	168	145	2	1	✓	0,86	A
QR0300150JGR00	30,0	32	40	173	150	2	1	✓	1,04	A
QR0310155JGR00	31,0	32	40	178	155	2	1	✓	1,08	A
QR0320160JGR00	32,0	32	40	183	160	2	1	✓	1,14	B
QR0330165JGR00	33,0	32	40	188	165	2	1	✓	1,20	B
QR0340170JGR00	34,0	32	40	193	170	2	1	✓	1,26	B
QR0350175JGR00	35,0	32	40	198	175	2	1	✓	1,29	B
QR0360180JGR00	36,0	32	40	203	180	2	1	✓	1,39	B
QR0370185JGR00	37,0	32	50	213	185	2	1	✓	1,40	C
QR0380190JGR00	38,0	32	50	218	190	2	1	✓	1,50	C
QR0390195JGR00	39,0	32	50	223	195	2	1	✓	1,56	C
QR0400200JGR00	40,0	32	50	228	200	2	1	✓	1,68	C
QR0410205JHR00	41,0	40	50	233	205	2	1	✓	2,08	C
QR0420210JHR00	42,0	40	50	238	210	2	1	✓	2,16	C
QR0430215JHR00	43,0	40	50	243	215	2	1	✓	2,28	C
QR0440220JHR00	44,0	40	60	255	220	2	1	✓	2,36	D
QR0450225JHR00	45,0	40	60	260	225	2	1	✓	2,45	D
QR0460230JHR00	46,0	40	60	265	230	2	1	✓	2,56	D
QR0470235JHR00	47,0	40	60	270	235	2	1	✓	2,63	D
QR0480240JHR00	48,0	40	60	275	240	2	1	✓	2,73	D
QR0490245JHR00	49,0	40	60	280	245	2	1	✓	2,85	D
QR0500250JHR00	50,0	40	60	285	250	2	1	✓	2,95	D

A SOMT09T308SK			B SOMT11T308SK			C SOMT130408SK			D SOMT150510SK		
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN2505	IN2530	IN6505					
SOMT09T308SK ¹⁾	0,06/0,20	positive geometry R0,8 / Géométrie positive R0,8									
SOMT11T308SK ¹⁾	0,06/0,22	positive geometry R0,8 / Géométrie positive R0,8									
SOMT130408SK ¹⁾	0,06/0,22	positive geometry R0,8 / Géométrie positive R0,8									
SOMT150510SK ¹⁾	0,06/0,24	positive geometry R1,0 / Géométrie positive R1,0									

¹⁾ Use IN6505 grade only for peripheral inserts / Le revêtement IN6505 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES



Diameter Range / Diamètres

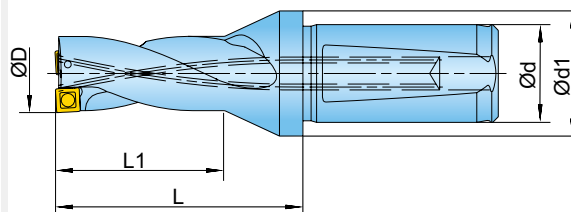
27,0 - 36,0 SM35-088-60 (3,0Nm) DS-T10S

37,0 - 43,0 SM40-093-20 (4,5Nm) DS-T15S

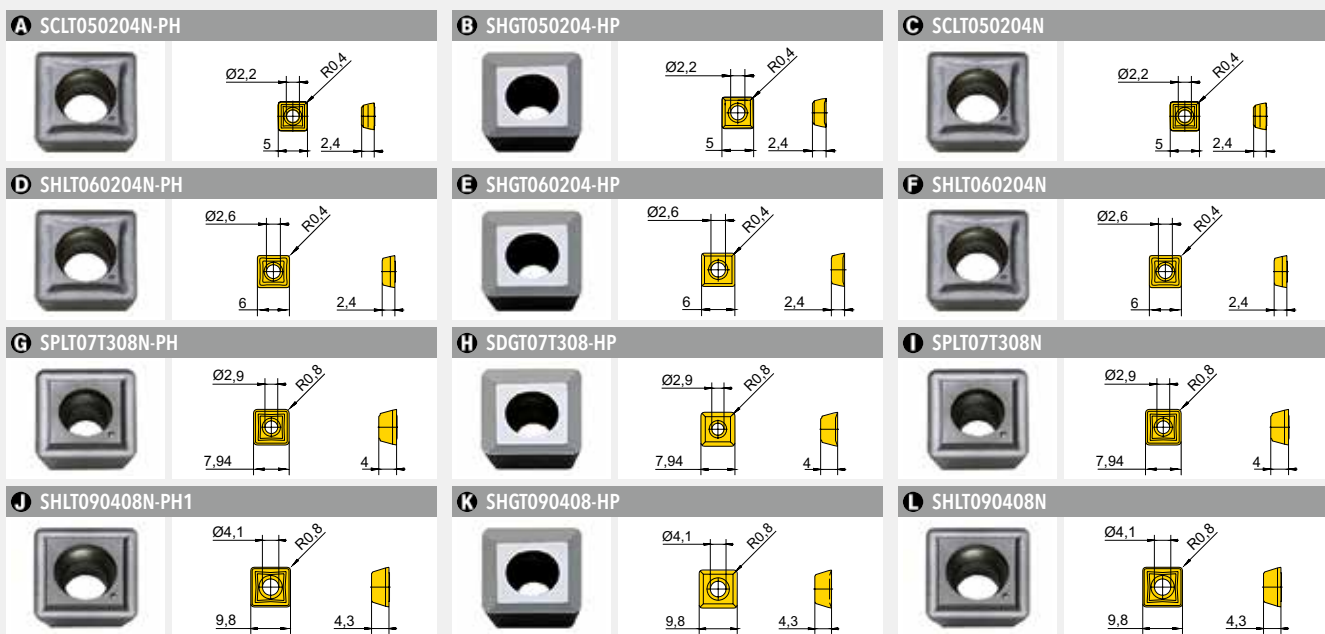
44,0 - 50,0 SM50-113-20 (8,0Nm) DS-T20S

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

ADAPTION ACC. TO DIN 1835 E
ATTACHEMENT COMPATIBLE DIN 1835 E



Designation Réf. de l'article	D	d	d1	L	L1	Z	Z _{eff}	IK	kg	Related Insert Plaquette préconisée
Q0130026WWR00	13	20	25	44	26	2	1	✓	0,15	A B C
Q0140028WWR00	14	20	25	46	28	2	1	✓	0,16	A B C
Q0150030WWR00	15	20	25	49	30	2	1	✓	0,16	A B C
Q0160032WXR00	16	25	32	52	32	2	1	✓	0,26	D E F
Q0170034WXR00	17	25	32	54	34	2	1	✓	0,26	D E F
Q0180036WXR00	18	25	32	57	36	2	1	✓	0,26	D E F
Q0190038WXR00	19	25	32	59	38	2	1	✓	0,27	D E F
Q0200040WXR00	20	25	32	63	40	2	1	✓	0,29	D E F
Q0210042WXR00	21	25	32	65	42	2	1	✓	0,33	D E F
Q0220044WXR01	22	25	32	67	44	2	1	✓	0,33	G H I
Q0230046WXR00	23	25	45	71	46	2	1	✓	0,42	G H I
Q0240048WXR00	24	25	45	74	48	2	1	✓	0,44	G H I
Q0250050WXR00	25	25	45	77	50	2	1	✓	0,45	G H I
Q0260052WXR00	26	25	45	79	52	2	1	✓	0,46	G H I
Q0270054WXR00	27	25	45	81	54	2	1	✓	0,47	G H I
Q0280056WXR00	28	25	45	84	56	2	1	✓	0,49	J K L
Q0290058WYR01	29	32	45	86	58	2	1	✓	0,66	J K L



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2005	IN2010	IN2530	IN6520			
SCLT050204N-PH ¹⁾	0,05/0,12	positive geometry R0,4 / Géométrie positive R0,4									
SHGT050204-HP	0,05/0,12	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									
SCLT050204N	0,05/0,12	cast iron geometry R0,4 / Géométrie fonte R 0,4									
SHLT060204N-PH ¹⁾	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 ¹⁾	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-PH ¹⁾	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									

¹⁾ Use IN6520 grade only for peripheral inserts / Le revêtement IN6520 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES

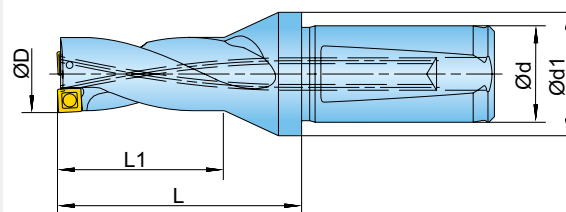


Diameter Range / Diamètres

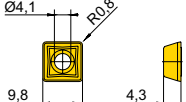
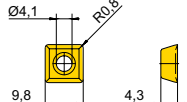
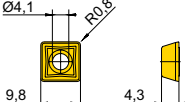
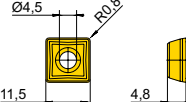
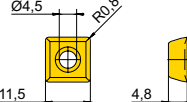
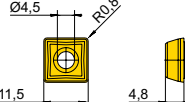
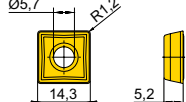
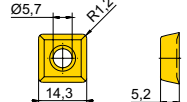
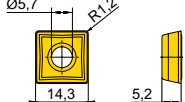
13 - 15	SM20-043-00 (0,7Nm) DS-TP06S (TX-Plus)
16 - 21	SM22-052-00 (0,8Nm) DS-T07S
22 - 27	SM25-064-00 (1,1Nm) DS-T08S
28 - 29	SM35-088-60 (3,0Nm) DS-T10S

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

ADAPTION ACC. TO DIN 1835 E
ATTACHEMENT COMPATIBLE DIN 1835 E



Designation Réf. de l'article	D	d	d1	L	L1	Z	Z _{eff}	IK	kg	Related Insert Plaquette préconisée
Q0300060WYR00	30	32	55	91	60	2	1	✓	0,78	A B C
Q0310062WYR00	31	32	55	94	62	2	1	✓	0,81	A B C
Q0320064WYR00	32	32	55	96	64	2	1	✓	0,84	A B C
Q0330066WYR00	33	32	55	99	66	2	1	✓	0,87	A B C
Q0340068WYR00	34	32	55	101	68	2	1	✓	0,89	D E F
Q0350070WYR00	35	32	55	104	70	2	1	✓	0,92	D E F
Q0360072WYR00	36	32	55	107	72	2	1	✓	0,96	D E F
Q0370074WYR00	37	32	55	110	74	2	1	✓	0,97	D E F
Q0380076WYR00	38	32	55	113	76	2	1	✓	1,00	D E F
Q0390078WYR00	39	32	55	115	78	2	1	✓	1,05	D E F
Q0400080WYR00	40	32	60	118	80	2	1	✓	1,10	D E F
Q0410082WZR00	41	40	60	121	82	2	1	✓	1,48	D E F
Q0420084WZR01	42	40	60	123	84	2	1	✓	1,50	G H I
Q0430086WZR01	43	40	60	126	86	2	1	✓	1,55	G H I
Q0440088WZR00	44	40	60	128	88	2	1	✓	1,60	G H I
Q0450090WZR00	45	40	60	132	90	2	1	✓	1,66	G H I
Q0460092WZR00	46	40	60	135	92	2	1	✓	1,71	G H I
Q0470094WZR00	47	40	60	137	94	2	1	✓	1,76	G H I
Q0480096WZR00	48	40	60	140	96	2	1	✓	1,84	G H I
Q0490098WZR00	49	40	60	142	98	2	1	✓	1,86	G H I
Q0500100WZR00	50	40	60	145	100	2	1	✓	1,93	G H I

A SHLT090408N-PH1			B SHGT090408-HP			C SHLT090408N					
											
D SHLT110408N-PH1			E SHGT110408-HP			F SHLT110408N					
											
G SPLT140512N-PH			H SDGT140512-HP			I SPLT140512N					
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2005	IN2010	IN2530	IN6520			
SHLT090408N-PH1 ¹⁾	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									
SHLT110408N-PH1 ¹⁾	0,08/0,23	positive geometry R0,8 / Géométrie positive R0,8									
SHGT110408-HP	0,14/0,23	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
SHLT110408N	0,16/0,28	cast iron geometry R0,8 / Géométrie fonte R 0,8									
SPLT140512N-PH ¹⁾	0,06/0,26	positive geometry R1,2 / Géométrie positive R1,2									
SDGT140512-HP	0,15/0,26	non-ferrous geometry, polished R1,2 / Géo. pour mat. non fer., polie R1,2									
SPLT140512N	0,18/0,30	cast iron geometry R1,2 / Géométrie fonte R 1,2									

¹⁾ Use IN6520 grade only for peripheral inserts / Le revêtement IN6520 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES



Diameter Range / Diamètres

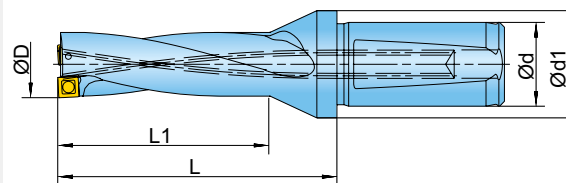
30 - 33 SM35-088-60 (3,0Nm) DS-T10S

34 - 41 SM40-093-20 (4,5Nm) DS-T15S

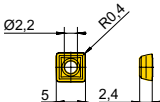
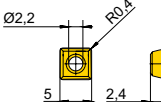
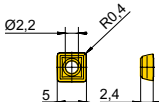
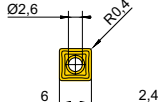
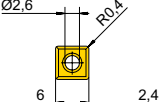
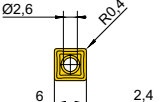
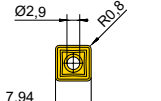
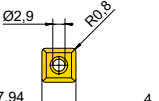
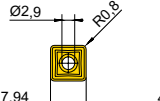
42 - 50 SM50-122-50 (7,5Nm) DS-T20S

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

ADAPTION ACC. TO DIN 1835 E
ATTACHEMENT COMPATIBLE DIN 1835 E



Designation Réf. de l'article	D	d	d1	L	L1	Z	Z _{eff}	IK	kg	Related Insert Plaquette préconisée
Q0125038WXR00	12,5	20	25	57	38	2	1	✓	0,16	A B C
Q0130039WXR00	13	20	25	57	39	2	1	✓	0,16	A B C
Q0135041WXR00	13,5	20	25	60	41	2	1	✓	0,16	A B C
Q0140042WXR00	14	20	25	60	42	2	1	✓	0,17	A B C
Q0145044WXR00	14,5	20	25	64	44	2	1	✓	0,17	A B C
Q0150045WXR00	15	20	25	64	45	2	1	✓	0,17	A B C
Q0155047WXR00	15,5	25	32	68	47	2	1	✓	0,29	D E F
Q0160048WXR00	16	25	32	68	48	2	1	✓	0,30	D E F
Q0165050WXR00	16,5	25	32	71	50	2	1	✓	0,30	D E F
Q0170051WXR00	17	25	32	71	51	2	1	✓	0,30	D E F
Q0175051WXR00	17,5	25	32	75	53	2	1	✓	0,31	D E F
Q0180054WXR00	18	25	32	75	54	2	1	✓	0,32	D E F
Q0185055WXR00	18,5	25	32	78	55	2	1	✓	0,32	D E F
Q0190057WXR00	19	25	32	78	57	2	1	✓	0,32	D E F
Q0195057WXR00	19,5	25	32	83	59	2	1	✓	0,33	D E F
Q0200060WXR00	20	25	32	83	60	2	1	✓	0,34	D E F
Q0205061WXR00	20,5	25	32	86	61	2	1	✓	0,35	D E F
Q0210063WXR00	21	25	32	86	63	2	1	✓	0,36	D E F
Q0215064WXR00	21,5	25	32	89	64	2	1	✓	0,37	D E F
Q0220066WXR01	22	25	32	89	66	2	1	✓	0,37	G H I
Q0225067WXR00	22,5	25	45	94	67	2	1	✓	0,42	G H I
Q0230069WXR00	23	25	45	94	69	2	1	✓	0,45	G H I
Q0235070WXR00	23,5	25	45	98	70	2	1	✓	0,47	G H I
Q0240072WXR00	24	25	45	98	72	2	1	✓	0,48	G H I
Q0245074WXR00	24,5	25	45	102	74	2	1	✓	0,49	G H I
Q0250075WXR00	25	25	45	102	75	2	1	✓	0,50	G H I
Q0255077WXR00	25,5	25	45	105	78	2	1	✓	0,51	G H I
Q0260078WXR00	26	25	45	105	78	2	1	✓	0,52	G H I
Q0265079WXR00	26,5	25	45	108	79	2	1	✓	0,52	G H I
Q0270081WXR00	27	25	45	108	81	2	1	✓	0,53	G H I
Q0275083WXR00	27,5	25	45	112	84	2	1	✓	0,54	G H I

A SCLT050204N-PH		B SHGT050204-HP		C SCLT050204N							
											
D SHLT060204N-PH		E SHGT060204-HP		F SHLT060204N							
											
G SPLT07T308N-PH		H SDGT07T308-HP		I SPLT07T308N							
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2005	IN2010	IN2530	IN6520			
SCLT050204N-PH ¹⁾	0,05/0,12	positive geometry R0,4 / Géométrie positive R0,4									
SHGT050204-HP	0,05/0,12	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									
SCLT050204N	0,05/0,12	cast iron geometry R0,4 / Géométrie fonte R 0,4									
SHLT060204N-PH ¹⁾	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 ¹⁾	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									

¹⁾ Use IN6520 grade only for peripheral inserts / Le revêtement IN6520 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES

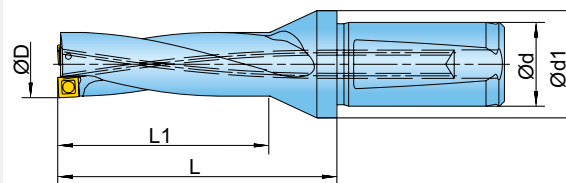


Diameter Range / Diamètres

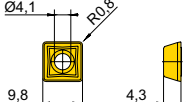
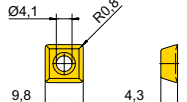
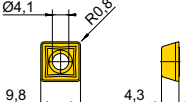
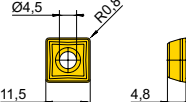
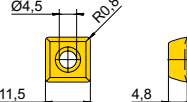
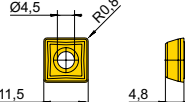
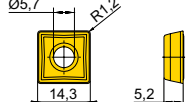
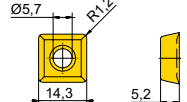
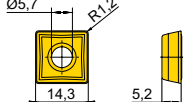
12,5 - 15	SM20-043-00 (0,7Nm) DS-TP06S (TX-Plus)
15,5 - 21,5	SM22-052-00 (0,8Nm) DS-T07S
22 - 27,5	SM25-064-00 (1,1Nm) DS-T08S

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

ADAPTION ACC. TO DIN 1835 E
ATTACHEMENT COMPATIBLE DIN 1835 E



Designation Réf. de l'article	D	d	d1	L	L1	Z	Z _{eff}	IK	kg	Related Insert Plaquette préconisée
Q0280084WXR00	28	25	45	112	84	2	1	✓	0,56	A B C
Q0285085WYR01	28,5	32	45	115	85	2	1	✓	0,72	A B C
Q0290087WYR01	29	32	45	115	87	2	1	✓	0,75	A B C
Q0295088WYR00	29,5	32	55	121	88	2	1	✓	0,84	A B C
Q0300090WYR00	30	32	55	121	90	2	1	✓	0,87	A B C
Q0310093WYR00	31	32	55	125	93	2	1	✓	0,90	A B C
Q0320096WYR00	32	32	55	128	96	2	1	✓	0,93	A B C
Q0330099WYR00	33	32	55	132	99	2	1	✓	0,97	A B C
Q0340102WYR00	34	32	55	135	102	2	1	✓	1,01	D E F
Q0345104WYR00	34,5	32	55	139	104	2	1	✓	1,04	D E F
Q0350105WYR00	35	32	55	139	105	2	1	✓	1,05	D E F
Q0360108WYR00	36	32	55	143	108	2	1	✓	1,10	D E F
Q0370111WYR00	37	32	55	147	111	2	1	✓	1,11	D E F
Q0375113WYR00	37,5	32	55	151	113	2	1	✓	1,14	D E F
Q0380114WYR00	38	32	55	151	114	2	1	✓	1,17	D E F
Q0390117WYR00	39	32	55	154	117	2	1	✓	1,23	D E F
Q0400120WYR00	40	32	60	158	120	2	1	✓	1,31	D E F
Q0405122WYR00	40,5	32	60	162	122	2	1	✓	1,39	D E F
Q0410123WZR00	41	40	60	162	123	2	1	✓	1,48	D E F
Q0420126WZR01	42	40	60	165	126	2	1	✓	1,62	G H I
Q0430129WZR01	43	40	60	169	129	2	1	✓	1,78	G H I
Q0440132WZR00	44	40	60	172	132	2	1	✓	1,83	G H I
Q0450135WZR00	45	40	60	177	135	2	1	✓	1,92	G H I
Q0460138WZR00	46	40	60	181	138	2	1	✓	1,99	G H I
Q0465140WZR00	46,5	40	60	184	140	2	1	✓	1,96	G H I
Q0470141WZR00	47	40	60	184	141	2	1	✓	2,05	G H I
Q0480144WZR00	48	40	60	188	144	2	1	✓	2,11	G H I
Q0490147WZR00	49	40	60	191	147	2	1	✓	2,16	G H I
Q0500150WZR00	50	40	60	195	150	2	1	✓	2,26	G H I
Q0505152WZR00	50,5	40	60	198	152	2	1	✓	2,31	G H I

A SHLT090408N-PH1			B SHGT090408-HP			C SHLT090408N					
											
D SHLT110408N-PH1			E SHGT110408-HP			F SHLT110408N					
											
G SPLT140512N-PH			H SDGT140512-HP			I SPLT140512N					
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2005	IN2010	IN2530	IN6520			
SHLT090408N-PH1 ¹⁾	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									
SHLT110408N-PH1 ¹⁾	0,08/0,23	positive geometry R0,8 / Géométrie positive R0,8									
SHGT110408-HP	0,14/0,23	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
SHLT110408N	0,16/0,28	cast iron geometry R0,8 / Géométrie fonte R 0,8									
SPLT140512N-PH ¹⁾	0,06/0,26	positive geometry R1,2 / Géométrie positive R1,2									
SDGT140512-HP	0,15/0,26	non-ferrous geometry, polished R1,2 / Géo. pour mat. non fer., polie R1,2									
SPLT140512N	0,18/0,30	cast iron geometry R1,2 / Géométrie fonte R 1,2									

¹⁾ Use IN6520 grade only for peripheral inserts / Le revêtement IN6520 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES



Diameter Range / Diamètres

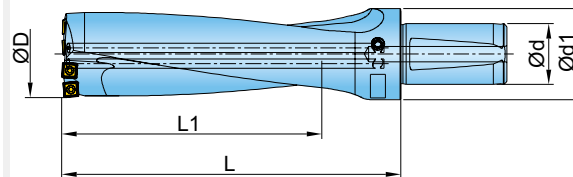
28 - 33 SM35-088-60 (3,0Nm) DS-T10S

34 - 41 SM40-093-20 (4,5Nm) DS-T15S

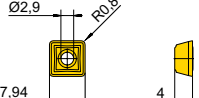
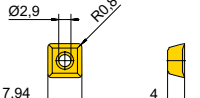
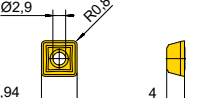
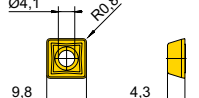
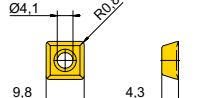
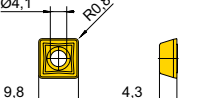
42 - 50,5 SM50-122-50 (7,5Nm) DS-T20S

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

ADAPTION ACC. TO DIN 1835 E
ATTACHEMENT COMPATIBLE DIN 1835 E



Designation Réf. de l'article	D	d	d1	L	L1	Z	Z _{eff}	IK	kg	Related Insert Plaquette préconisée
Q0510153WZR00	51	40	75	199	153	4	1	✓	2,25	A B C
Q0520156WZR00	52	40	75	203	156	4	1	✓	2,35	A B C
Q0530159WZR00	53	40	75	206	159	4	1	✓	2,45	A B C
Q0540162WZR00	54	40	75	208	162	4	1	✓	2,55	A B C
Q0550165WZR00	55	40	75	211	165	4	1	✓	2,65	A B C
Q0560168WZR00	56	40	75	215	168	4	1	✓	2,75	D B F
Q0570171WZR00	57	40	75	220	171	4	1	✓	2,85	D B F
Q0580174WZR00	58	40	75	224	174	4	1	✓	2,95	D B F
Q0590177WZR00	59	40	75	227	177	4	1	✓	3,07	D B F
Q0600180WZR00	60	40	75	231	180	4	1	✓	3,15	D B F

A SPLT07T308N-PH			B SDGT07T308-HP			C SPLT07T308N					
											
D SHLT090408N-PH1			E SHGT090408-HP			F SHLT090408N					
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2005	IN2010	IN2530	IN6520			
SPLT07T308N-PH ¹⁾	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 ¹⁾	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									

¹⁾Use IN6520 grade only for peripheral inserts / Le revêtement IN6520 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES



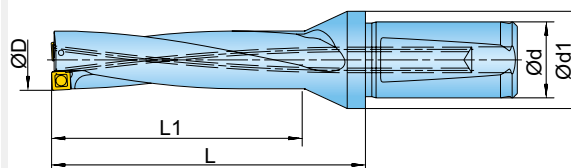
Diameter Range / Diamètres

51 - 55 SM25-064-00 (1,1Nm) DS-T08S

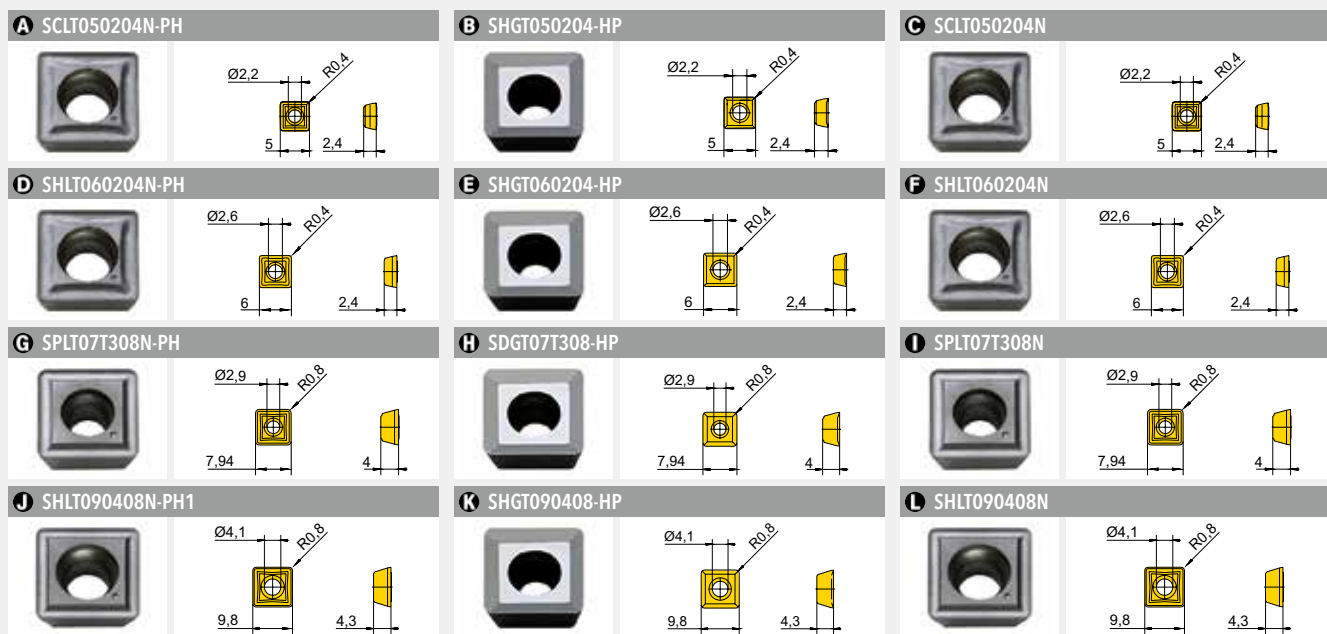
56 - 60 SM35-088-60 (3,0Nm) DS-T10S

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

ADAPTION ACC. TO DIN 1835 E
ATTACHEMENT COMPATIBLE DIN 1835 E



Designation Réf. de l'article	D	d	d1	L	L1	Z	Z _{eff}	IK	kg	Related Insert Plaquette préconisée
Q0130052WWR00	13	20	25	70	52	2	1	✓	0,17	A B C
Q0140056WWR00	14	20	25	74	56	2	1	✓	0,18	A B C
Q0150060WWR00	15	20	25	79	60	2	1	✓	0,18	A B C
Q0160064WXR00	16	25	32	84	64	2	1	✓	0,28	D E F
Q0170068WXR00	17	25	32	88	68	2	1	✓	0,32	D E F
Q0180072WXR00	18	25	32	93	72	2	1	✓	0,34	D E F
Q0190076WXR00	19	25	32	97	76	2	1	✓	0,35	D E F
Q0200080WXR00	20	25	32	103	80	2	1	✓	0,37	D E F
Q0210084WXR00	21	25	32	107	84	2	1	✓	0,39	D E F
Q0220088WXR01	22	25	32	111	88	2	1	✓	0,40	G H I
Q0230092WXR00	23	25	45	117	92	2	1	✓	0,48	G H I
Q0240096WXR00	24	25	45	122	96	2	1	✓	0,52	G H I
Q0250100WXR00	25	25	45	127	100	2	1	✓	0,54	G H I
Q0260104WXR00	26	25	45	131	104	2	1	✓	0,57	G H I
Q0270108WXR00	27	25	45	135	108	2	1	✓	0,59	G H I
Q0280112WXR00	28	25	45	140	112	2	1	✓	0,62	J K L
Q0290116WYR01	29	32	45	144	116	2	1	✓	0,80	J K L



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2005	IN2010	IN2530	IN6520			
SCLT050204N-PH ¹⁾	0,05/0,12	positive geometry R0,4 / Géométrie positive R0,4									
SHGT050204-HP	0,05/0,12	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									
SCLT050204N	0,05/0,12	cast iron geometry R0,4 / Géométrie fonte R 0,4									
SHLT060204N-PH ¹⁾	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 ¹⁾	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-PH ¹⁾	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									

¹⁾ Use IN6520 grade only for peripheral inserts / Le revêtement IN6520 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES

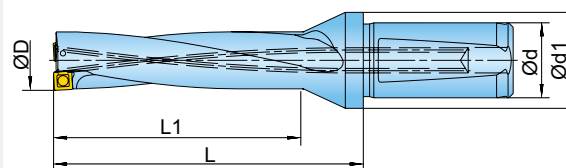


Diameter Range / Diamètres

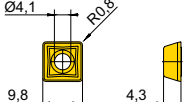
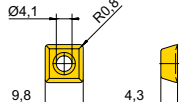
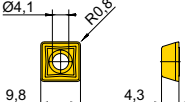
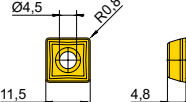
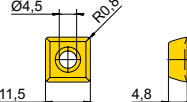
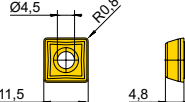
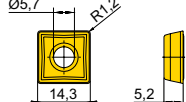
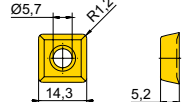
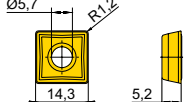
13 - 15	SM20-043-00 (0,7Nm) DS-TP06S (TX-Plus)
16 - 21	SM22-052-00 (0,8Nm) DS-T07S
22 - 27	SM25-064-00 (1,1Nm) DS-T08S
28 - 29	SM35-088-60 (3,0Nm) DS-T10S

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

ADAPTION ACC. TO DIN 1835 E
ATTACHEMENT COMPATIBLE DIN 1835 E



Designation Réf. de l'article	D	d	d1	L	L1	Z	Z _{eff}	IK	kg	Related Insert Plaquette préconisée
Q0300120WYR00	30	32	55	151	120	2	1	✓	0,94	ABC
Q0310124WYR00	31	32	55	156	124	2	1	✓	0,97	ABC
Q0320128WYR00	32	32	55	160	128	2	1	✓	1,04	ABC
Q0330132WYR00	33	32	55	165	132	2	1	✓	1,09	ABC
Q0340136WYR00	34	32	55	169	136	2	1	✓	1,13	DEF
Q0350140WYR00	35	32	55	174	140	2	1	✓	1,17	DEF
Q0360144WYR00	36	32	55	179	144	2	1	✓	1,23	DEF
Q0370148WYR00	37	32	55	184	148	2	1	✓	1,29	DEF
Q0380152WYR00	38	32	55	189	152	2	1	✓	1,34	DEF
Q0390156WYR00	39	32	55	193	156	2	1	✓	1,41	DEF
Q0400160WYR00	40	32	60	198	160	2	1	✓	1,50	DEF
Q0410164WZR00	41	40	60	203	164	2	1	✓	1,86	DEF
Q0420168WZR01	42	40	60	207	168	2	1	✓	1,94	GHI
Q0430172WZR01	43	40	60	212	172	2	1	✓	2,02	GHI
Q0440176WZR00	44	40	60	216	176	2	1	✓	2,10	GHI
Q0450180WZR00	45	40	60	222	180	2	1	✓	2,19	GHI
Q0460184WZR00	46	40	60	227	184	2	1	✓	2,30	GHI
Q0470188WZR00	47	40	60	231	188	2	1	✓	2,37	GHI
Q0480192WZR00	48	40	60	236	192	2	1	✓	2,47	GHI
Q0490196WZR00	49	40	60	240	196	2	1	✓	2,59	GHI
Q0500200WZR00	50	40	60	245	200	2	1	✓	2,64	GHI

A SHLT090408N-PH1			B SHGT090408-HP			C SHLT090408N					
											
D SHLT110408N-PH1			E SHGT110408-HP			F SHLT110408N					
											
G SPLT140512N-PH			H SDGT140512-HP			I SPLT140512N					
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2005	IN2010	IN2530	IN6520			
SHLT090408N-PH1 ¹⁾	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									
SHLT110408N-PH1 ¹⁾	0,08/0,23	positive geometry R0,8 / Géométrie positive R0,8									
SHGT110408-HP	0,14/0,23	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
SHLT110408N	0,16/0,28	cast iron geometry R0,8 / Géométrie fonte R 0,8									
SPLT140512N-PH ¹⁾	0,06/0,26	positive geometry R1,2 / Géométrie positive R1,2									
SDGT140512-HP	0,15/0,26	non-ferrous geometry, polished R1,2 / Géo. pour mat. non fer., polie R1,2									
SPLT140512N	0,18/0,30	cast iron geometry R1,2 / Géométrie fonte R 1,2									

¹⁾ Use IN6520 grade only for peripheral inserts / Le revêtement IN6520 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES



Diameter Range / Diamètres

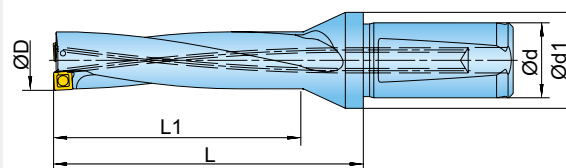
30 - 33 SM35-088-60 (3,0Nm) DS-T10S

34 - 41 SM40-093-20 (4,5Nm) DS-T15S

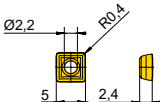
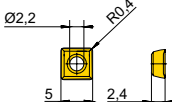
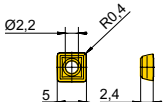
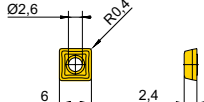
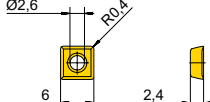
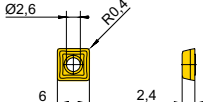
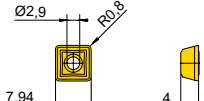
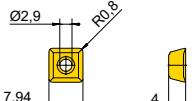
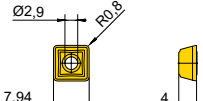
42 - 50 SM50-122-50 (7,5Nm) DS-T20S

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

ADAPTION ACC. TO DIN 1835 E
ATTACHEMENT COMPATIBLE DIN 1835 E



Designation Réf. de l'article	D	d	d1	L	L1	Z	Z _{eff}	IK	kg	Related Insert Plaquette préconisée
Q0130065WWR00	13	20	25	83	65	2	1	✓	0,26	A B C
Q0140070WWR00	14	20	25	88	70	2	1	✓	0,28	A B C
Q0150075WWR00	15	20	25	94	75	2	1	✓	0,30	A B C
Q0160080WXR00	16	25	32	100	80	2	1	✓	0,32	D E F
Q0170085WXR00	17	25	32	105	85	2	1	✓	0,34	D E F
Q0180090WXR00	18	25	32	111	90	2	1	✓	0,36	D E F
Q0190095WXR00	19	25	32	116	95	2	1	✓	0,38	D E F
Q0200100WXR00	20	25	32	123	100	2	1	✓	0,40	D E F
Q0210105WXR00	21	25	32	128	105	2	1	✓	0,42	D E F
Q0220110WXR00	22	25	32	133	110	2	1	✓	0,44	G H I
Q0230115WXR00	23	25	45	140	115	2	1	✓	0,51	G H I
Q0240120WXR00	24	25	45	146	120	2	1	✓	0,56	G H I
Q0250125WXR00	25	25	45	152	125	2	1	✓	0,59	G H I
Q0260130WXR00	26	25	45	157	130	2	1	✓	0,62	G H I
Q0270135WXR00	27	25	45	162	135	2	1	✓	0,65	G H I

A SCLT050204N-PH		B SHGT050204-HP		C SCLT050204N							
											
D SHLT060204N-PH		E SHGT060204-HP		F SHLT060204N							
											
G SPLT07T308N-PH		H SDGT07T308-HP		I SPLT07T308N							
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2005	IN2010	IN2530	IN6520			
SCLT050204N-PH ¹⁾	0,05/0,12	positive geometry R0,4 / Géométrie positive R0,4									
SHGT050204-HP	0,05/0,12	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									
SCLT050204N	0,05/0,12	cast iron geometry R0,4 / Géométrie fonte R 0,4									
SHLT060204N-PH ¹⁾	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 ¹⁾	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									

¹⁾ Use IN6520 grade only for peripheral inserts / Le revêtement IN6520 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES

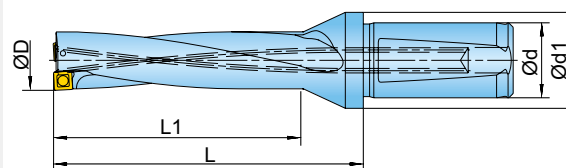


Diameter Range / Diamètres

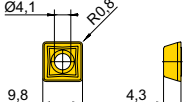
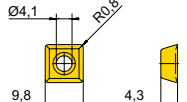
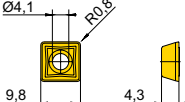
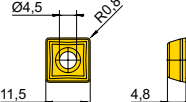
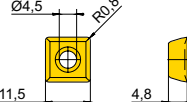
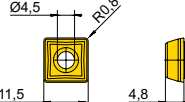
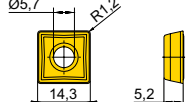
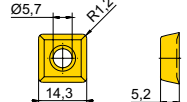
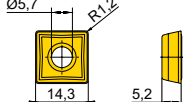
13 - 15	SM20-043-00 (0,7Nm) DS-TP06S (TX-Plus)
16 - 21	SM22-052-00 (0,8Nm) DS-T07S
22 - 27	SM25-064-00 (1,1Nm) DS-T08S

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

ADAPTION ACC. TO DIN 1835 E
ATTACHEMENT COMPATIBLE DIN 1835 E



Designation Réf. de l'article	D	d	d1	L	L1	Z	Z _{eff}	IK	kg	Related Insert Plaquette préconisée
Q0280140WXR00	28	25	45	168	140	2	1	✓	0,68	A B C
Q0290145WYR00	29	32	45	173	145	2	1	✓	0,86	A B C
Q0300150WYR00	30	32	55	181	150	2	1	✓	1,04	A B C
Q0310155WYR00	31	32	55	187	155	2	1	✓	1,08	A B C
Q0320160WYR00	32	32	55	192	160	2	1	✓	1,14	A B C
Q0330165WYR00	33	32	55	198	165	2	1	✓	1,20	A B C
Q0340170WYR00	34	32	55	203	170	2	1	✓	1,26	D E F
Q0350175WYR00	35	32	55	209	175	2	1	✓	1,29	D E F
Q0360180WYR00	36	32	55	215	180	2	1	✓	1,39	D E F
Q0370185WYR00	37	32	55	221	185	2	1	✓	1,40	D E F
Q0380190WYR00	38	32	55	227	190	2	1	✓	1,50	D E F
Q0390195WYR00	39	32	55	232	195	2	1	✓	1,56	D E F
Q0400200WYR00	40	32	60	238	200	2	1	✓	1,68	D E F
Q0410205WZR00	41	40	60	244	205	2	1	✓	2,08	D E F
Q0500250WQR00	50	50	75	297	250	2	1	✓	3,81	G H I

A SHLT090408N-PH1			B SHGT090408-HP			C SHLT090408N					
											
D SHLT110408N-PH1			E SHGT110408-HP			F SHLT110408N					
											
G SPLT140512N-PH			H SDGT140512-HP			I SPLT140512N					
											
Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2005	IN2010	IN2530	IN6520			
SHLT090408N-PH1 ¹⁾	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									
SHLT110408N-PH1 ¹⁾	0,08/0,23	positive geometry R0,8 / Géométrie positive R0,8									
SHGT110408-HP	0,14/0,23	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
SHLT110408N	0,16/0,28	cast iron geometry R0,8 / Géométrie fonte R 0,8									
SPLT140512N-PH ¹⁾	0,06/0,26	positive geometry R1,2 / Géométrie positive R1,2									
SDGT140512-HP	0,15/0,26	non-ferrous geometry, polished R1,2 / Géo. pour mat. non fer., polie R1,2									
SPLT140512N	0,18/0,30	cast iron geometry R1,2 / Géométrie fonte R 1,2									

¹⁾ Use IN6520 grade only for peripheral inserts / Le revêtement IN6520 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES

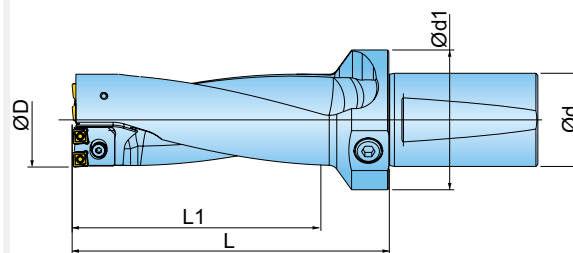


Diameter Range / Diamètres

28 - 33	SM35-088-60 (3,0Nm) DS-T10S
34 - 41	SM40-093-20 (4,5Nm) DS-T15S
50	SM50-122-50 (7,5Nm) DS-T20S

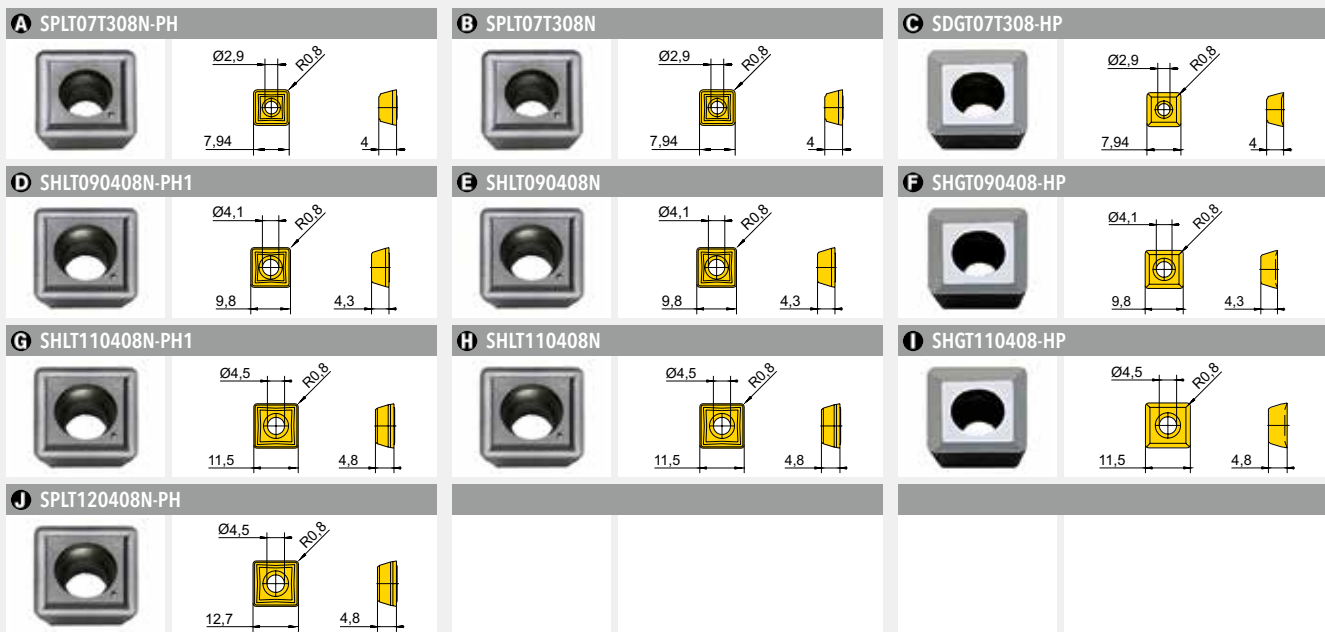
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

ADAPTION ACC. TO DIN 1835 E
ATTACHEMENT COMPATIBLE DIN 1835 E



Designation Réf. de l'article	D	d	d1	L	L1	Z	Z _{eff}	Setting Plate	IK	kg	Related Insert Plaquette préconisée
Q0510133WQR01	51	50	75	170	133	4	1	-	✓	2,89	A B C
Q0510133WQR01	52	50	75	170	133	4	1	PA-5108	✓	2,89	A B C
Q0510133WQR01	53	50	75	170	133	4	1	PA-5109	✓	2,89	A B C
Q0540140WQR01	54	50	75	180	140	4	1	-	✓	3,20	A B C
Q0540140WQR01	55	50	75	180	140	4	1	PA-5108	✓	3,20	A B C
Q0540140WQR01	56	50	75	180	140	4	1	PA-5109	✓	3,20	A B C
Q0570155WQR01	57	50	75	201	155	4	1	-	✓	3,51	D E F
Q0570155WQR01	58	50	75	201	155	4	1	PA-5110	✓	3,51	D E F
Q0570155WQR01	59	50	75	201	155	4	1	PA-5111	✓	3,51	D E F
Q0570155WQR01	60	50	75	201	155	4	1	PA-5112	✓	3,51	D E F
Q0570155WQR01	61	50	75	201	155	4	1	PA-5113	✓	3,51	D E F
Q0570155WQR01	62	50	75	201	155	4	1	PA-5114	✓	3,51	D E F
Q0630165WQR01	63	50	75	215	165	4	1	-	✓	4,17	D E F
Q0630165WQR01	64	50	75	215	165	4	1	PA-5110	✓	4,17	D E F
Q0630165WQR01	65	50	75	215	165	4	1	PA-5111	✓	4,17	D E F
Q0630165WQR01	66	50	75	215	165	4	1	PA-5112	✓	4,17	D E F
Q0670183WQR01	67	50	75	240	183	4	1	-	✓	4,90	G H I
Q0670183WQR01	68	50	75	240	183	4	1	PA-5115	✓	4,90	G H I
Q0670183WQR01	69	50	75	240	183	4	1	PA-5116	✓	4,90	G H I
Q0670183WQR01	70	50	75	240	183	4	1	PA-5117	✓	4,90	G H I
Q0670183WQR01	71	50	75	240	183	4	1	PA-5118	✓	4,90	G H I
Q0670183WQR01	72	50	75	240	183	4	1	PA-5119	✓	4,90	G H I
Q0670183WQR01	73	50	75	240	183	4	1	PA-5120	✓	4,90	G H I
Q0740200WQR00	74	50	75	250	200	4	1	-	✓	5,87	J
Q0740200WQR00	75	50	75	250	200	4	1	PA-5115	✓	5,87	J
Q0740200WQR00	76	50	75	250	200	4	1	PA-5116	✓	5,87	J
Q0740200WQR00	77	50	75	250	200	4	1	PA-5117	✓	5,87	J
Q0740200WQR00	78	50	75	250	200	4	1	PA-5118	✓	5,87	J
Q0740200WQR00	79	50	75	250	200	4	1	PA-5119	✓	5,87	J
Q0740200WQR00	80	50	75	250	200	4	1	PA-5120	✓	5,87	J

Included in delivery: body, cartridges and setting plates / La livraison inclue: corps, cartouches et cales d'ajustement



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2005	IN2010	IN2530	IN6520			
SPLT07T308N-PH ¹⁾	0,06/0,20	positive geometry R0,8 / Géométrie positive R0,8									
SPLT07T308N	0,10/0,25	cast iron geometry R0,8 / Géométrie fonte R 0,8									
SDGT07T308-HP	0,08/0,15	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
SHLT090408N-PH1 ¹⁾	0,07/0,22	positive geometry R0,8 / Géométrie positive R0,8									
SHLT090408N	0,12/0,25	cast iron geometry R0,8 / Géométrie fonte R 0,8									
SHGT090408-HP	0,10/0,20	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
SHLT110408N-PH1 ¹⁾	0,08/0,23	positive geometry R0,8 / Géométrie positive R0,8									
SHLT110408N	0,16/0,28	cast iron geometry R0,8 / Géométrie fonte R 0,8									
SHGT110408-HP	0,14/0,23	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
SPLT120408N-PH	0,08/0,28	positive geometry R0,8 / Géométrie positive R0,8									

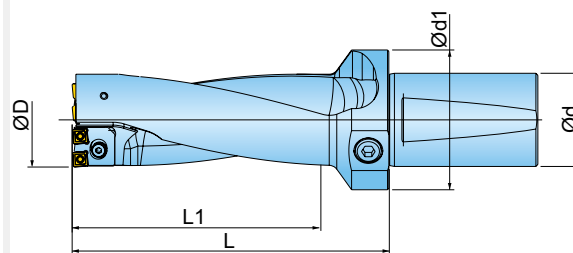
¹⁾ Use IN6520 grade only for peripheral inserts / Le revêtement IN6520 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES	①	②	③	④	⑤	⑥
Diameter Range / Diamètres						
51 - 53	55E212R01	55E192R01	SM25-064-00 (1,1Nm)	DS-T08S	SH M4x0.7x16	MW 4.3X8
54 - 56	55E223R01	55E213R01	SM25-064-00 (1,1Nm)	DS-T08S	SH M4x0.7x16	MW 4.3X8
57 - 62	55F243R02	55F233R01	SM35-088-60 (3,0Nm)	DS-T10S	SH M5X0.8X16 (6,5Nm)	MW 5.5X10
63 - 66	55F263R01	55F243R03	SM35-088-60 (3,0Nm)	DS-T10S	SH M5X0.8X16 (6,5Nm)	MW 5.5X10
67 - 73	55G294R01	55G264R01	SM40-093-20 (4,5Nm)	DS-T15S	SH M6x1.0x20	MW 6.4X12
74 - 80	55H314R00	55H294R00	SM40-093-20 (4,5Nm)	DS-T15S	SH M6x1.0x20	MW 6.4X12

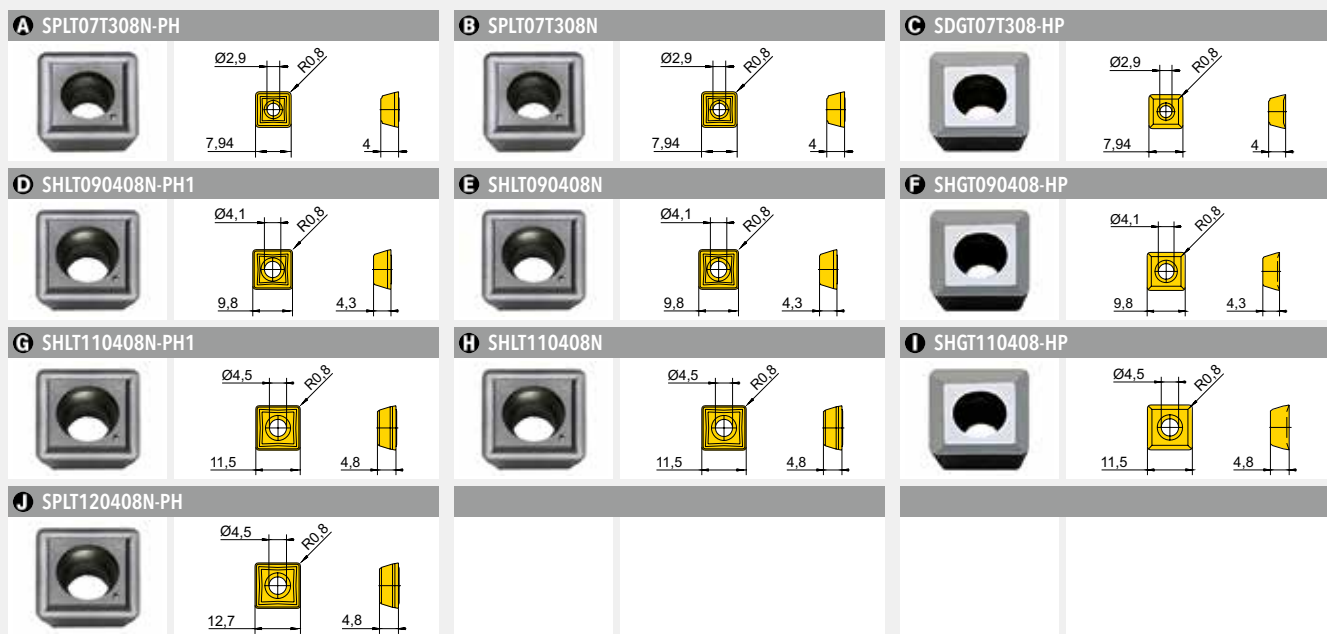
① = Peripheral cartridge / Cartouche périphérique ② = Center cartridge / Cartouche central ③ = Insert screw / Vis de serrage plaquette ④ = Screw driver / Tournevis ⑤ = Clamp screw / Vis de serrage ⑥ = Shim / Assise de protection

ADAPTION ACC. TO DIN 1835 E
ATTACHEMENT COMPATIBLE DIN 1835 E



Designation Réf. de l'article	D	d	d1	L	L1	Z	Z _{eff}	Setting Plate	IK	kg	Related Insert Plaque préconisée
Q0510186WQR00	51	50	75	223	186	4	1	-	✓	3,66	A B C
Q0510186WQR00	52	50	75	223	186	4	1	PA-5108	✓	3,66	A B C
Q0510186WQR00	53	50	75	223	186	4	1	PA-5109	✓	3,66	A B C
Q0540196WQR00	54	50	75	236	196	4	1	-	✓	3,98	A B C
Q0540196WQR00	55	50	75	236	196	4	1	PA-5108	✓	3,98	A B C
Q0540196WQR00	56	50	75	236	196	4	1	PA-5109	✓	3,98	A B C
Q0570217WQR00	57	50	75	263	217	4	1	-	✓	4,28	D E F
Q0570217WQR00	58	50	75	263	217	4	1	PA-5110	✓	4,28	D E F
Q0570217WQR00	59	50	75	263	217	4	1	PA-5111	✓	4,28	D E F
Q0570217WQR00	60	50	75	263	217	4	1	PA-5112	✓	4,28	D E F
Q0570217WQR00	61	50	75	263	217	4	1	PA-5113	✓	4,28	D E F
Q0570217WQR00	62	50	75	263	217	4	1	PA-5114	✓	4,28	D E F
Q0630231WQR00	63	50	75	281	231	4	1	-	✓	5,60	D E F
Q0630231WQR00	64	50	75	281	231	4	1	PA-5110	✓	5,60	D E F
Q0630231WQR00	65	50	75	281	231	4	1	PA-5111	✓	5,60	D E F
Q0630231WQR00	66	50	75	281	231	4	1	PA-5112	✓	5,60	D E F
Q0670256WQR00	67	50	75	313	256	4	1	-	✓	6,40	G H I
Q0670256WQR00	68	50	75	313	256	4	1	PA-5115	✓	6,40	G H I
Q0670256WQR00	69	50	75	313	256	4	1	PA-5116	✓	6,40	G H I
Q0670256WQR00	70	50	75	313	256	4	1	PA-5117	✓	6,40	G H I
Q0670256WQR00	71	50	75	313	256	4	1	PA-5118	✓	6,40	G H I
Q0670256WQR00	72	50	75	313	256	4	1	PA-5119	✓	6,40	G H I
Q0670256WQR00	73	50	75	313	256	4	1	PA-5120	✓	6,40	G H I
Q0740280WQR00	74	50	75	330	280	4	1	-	✓	7,66	J
Q0740280WQR00	75	50	75	330	280	4	1	PA-5115	✓	7,66	J
Q0740280WQR00	76	50	75	330	280	4	1	PA-5116	✓	7,66	J
Q0740280WQR00	77	50	75	330	280	4	1	PA-5117	✓	7,66	J
Q0740280WQR00	78	50	75	330	280	4	1	PA-5118	✓	7,66	J
Q0740280WQR00	79	50	75	330	280	4	1	PA-5119	✓	7,66	J
Q0740280WQR00	80	50	75	330	280	4	1	PA-5120	✓	7,66	J

Included in delivery: body, cartridges and setting plates / La livraison inclue: corps, cartouches et cales d'ajustement



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2005	IN2010	IN2530	IN6520			
SPLT07T308N-PH ¹⁾	0,06/0,20	positive geometry R0,8 / Géométrie positive R0,8									
SPLT07T308N	0,10/0,25	cast iron geometry R0,8 / Géométrie fonte R 0,8									
SDGT07T308-HP	0,08/0,15	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
SHLT090408N-PH1 ¹⁾	0,07/0,22	positive geometry R0,8 / Géométrie positive R0,8									
SHLT090408N	0,12/0,25	cast iron geometry R0,8 / Géométrie fonte R 0,8									
SHGT090408-HP	0,10/0,20	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
SHLT110408N-PH1 ¹⁾	0,08/0,23	positive geometry R0,8 / Géométrie positive R0,8									
SHLT110408N	0,16/0,28	cast iron geometry R0,8 / Géométrie fonte R 0,8									
SHGT110408-HP	0,14/0,23	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
SPLT120408N-PH	0,08/0,28	positive geometry R0,8 / Géométrie positive R0,8									

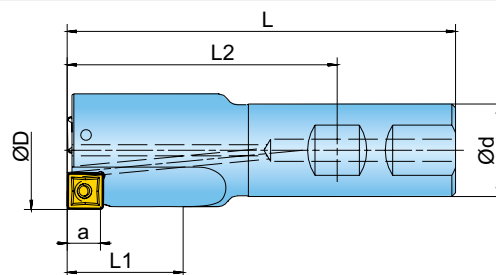
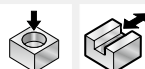
¹⁾ Use IN6520 grade only for peripheral inserts / Le revêtement IN6520 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

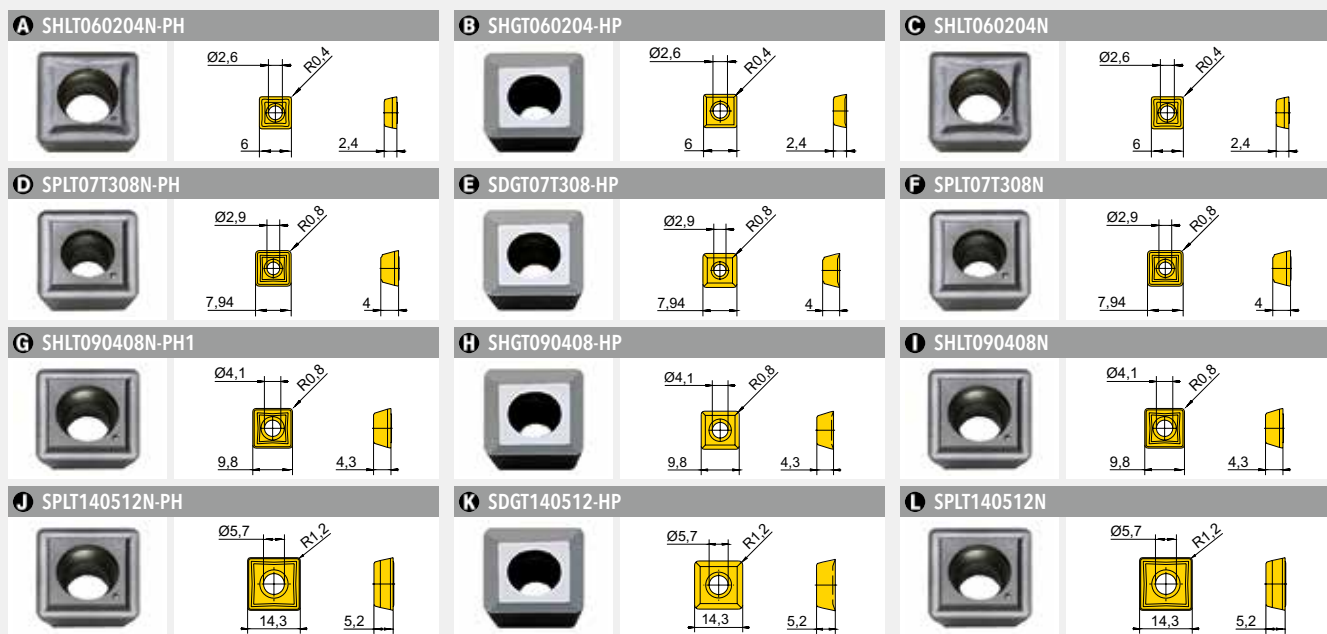
SPARE PARTS ACCESSOIRES	①	②	③	④	⑤	⑥
Diameter Range / Diamètres						
51 - 53	55E212R01	55E192R01	SM25-064-00 (1,1Nm)	DS-T08S	SH M4x0.7x16	MW 4.3X8
54 - 56	55E223R01	55E213R01	SM25-064-00 (1,1Nm)	DS-T08S	SH M4x0.7x16	MW 4.3X8
57 - 62	55F243R02	55F233R01	SM35-088-60 (3,0Nm)	DS-T10S	SH M5X0.8X16 (6,5Nm)	MW 5.5X10
63 - 66	55F263R01	55F243R03	SM35-088-60 (3,0Nm)	DS-T10S	SH M5X0.8X16 (6,5Nm)	MW 5.5X10
67 - 73	55G294R01	55G264R01	SM40-093-20 (4,5Nm)	DS-T15S	SH M6x1.0x20	MW 6.4X12
74 - 80	55H314R00	55H294R00	SM40-093-20 (4,5Nm)	DS-T15S	SH M6x1.0x20	MW 6.4X12

① = Peripheral cartridge / Cartouche périphérique ② = Center cartridge / Cartouche central ③ = Insert screw / Vis de serrage plaquette ④ = Screw driver / Tournevis ⑤ = Clamp screw / Vis de serrage ⑥ = Shim / Assise de protection

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



Designation Réf. de l'article	D	d	L	L1	L2	a	Z	Ze _{eff}		 kg	Related Insert Plaquette préconisée
15S1D016025W4R01	16	20	75	16	50	5,4	2	1	✓	0,14	A B C
15S1D020034W4R01	20	20	85	20	60	5,4	2	1	✓	0,16	A B C
15S1E025039W5R01	25	25	95	25	63	7,0	2	1	✓	0,28	D E F
15S1F030049W5R01	30	25	105	30	73	8,9	2	1	✓	0,35	G H I
15S1F032049W5R01	32	25	105	32	73	8,9	2	1	✓	0,37	G H I
15S1J040060W6R01	40	32	120	40	84	13,0	2	1	✓	0,68	J K L



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2005	IN2010	IN2530	IN6520			
SHLT060204N-PH ¹⁾	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 ¹⁾	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 ¹⁾	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									
SPLT140512N-PH ¹⁾	0,06/0,26	positive geometry R1,2 / Géométrie positive R1,2									
SDGT140512-HP	0,15/0,26	non-ferrous geometry, polished R1,2 / Géo. pour mat. non fer., polie R1,2									
SPLT140512N	0,18/0,30	cast iron geometry R1,2 / Géométrie fonte R 1,2									

¹⁾ Use IN6520 grade only for peripheral inserts / Le revêtement IN6520 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES

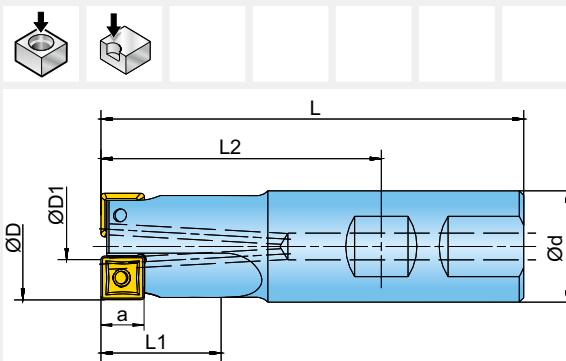


Diameter Range / Diamètres

16 - 20	SM22-052-00 (0,8Nm) DS-T07S
25	SM25-064-00 (1,1Nm) DS-T08S
30 - 32	SM35-088-60 (3,0Nm) DS-T10S
40	SM50-122-50 (7,5Nm) DS-T20S

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

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



Designation Réf. de l'article	D	D1	d	L	L1	L2	a	Z			Related Insert Plaquette préconisée
15C1C010025W2R01	10	4,5	12	70	10	47,5	4,5	1	✓	0,10	A B C
15C1C011025W2R01	11	4,5	12	70	11	47,5	4,5	1	✓	0,10	A B C
15C1C013027W3R01	13	4,5	16	75	13	51	4,5	2	✓	0,11	A B C
15C1D015025W4R01	15	4,5	20	75	15	50	5,4	2	✓	0,13	D E F
15C1D018025W4R01	18	7,5	20	75	18	50	5,4	2	✓	0,14	D E F
15C1D020035W4R01	20	9,5	20	85	20	60	5,4	2	✓	0,16	D E F
15C1F024039W5R01	24	6,5	25	95	24	63	7,0	2	✓	0,27	G H I
15C1G026044W5R01	26	5,0	25	100	26	68	10,5	2	✓	0,29	J K L
15C1G030049W5R01	30	9,0	25	105	30	73	10,5	2	✓	0,35	J K L
15C1G033049W5R01	33	12,0	25	105	33	73	10,5	2	✓	0,38	J K L
15C1G036050W6R01	36	15,0	32	110	36	74	10,5	3	✓	0,56	J K L
15C1J040060W6R01	40	14,5	32	120	40	84	13	3	✓	0,62	M N O
15C1J048060W7R01	48	22,0	40	130	48	90	13	3	✓	1,10	M N O

Diameter D1 corresponds with the minimum diameter of the through hole / D1 représente le diamètre minimal de l'avant trou

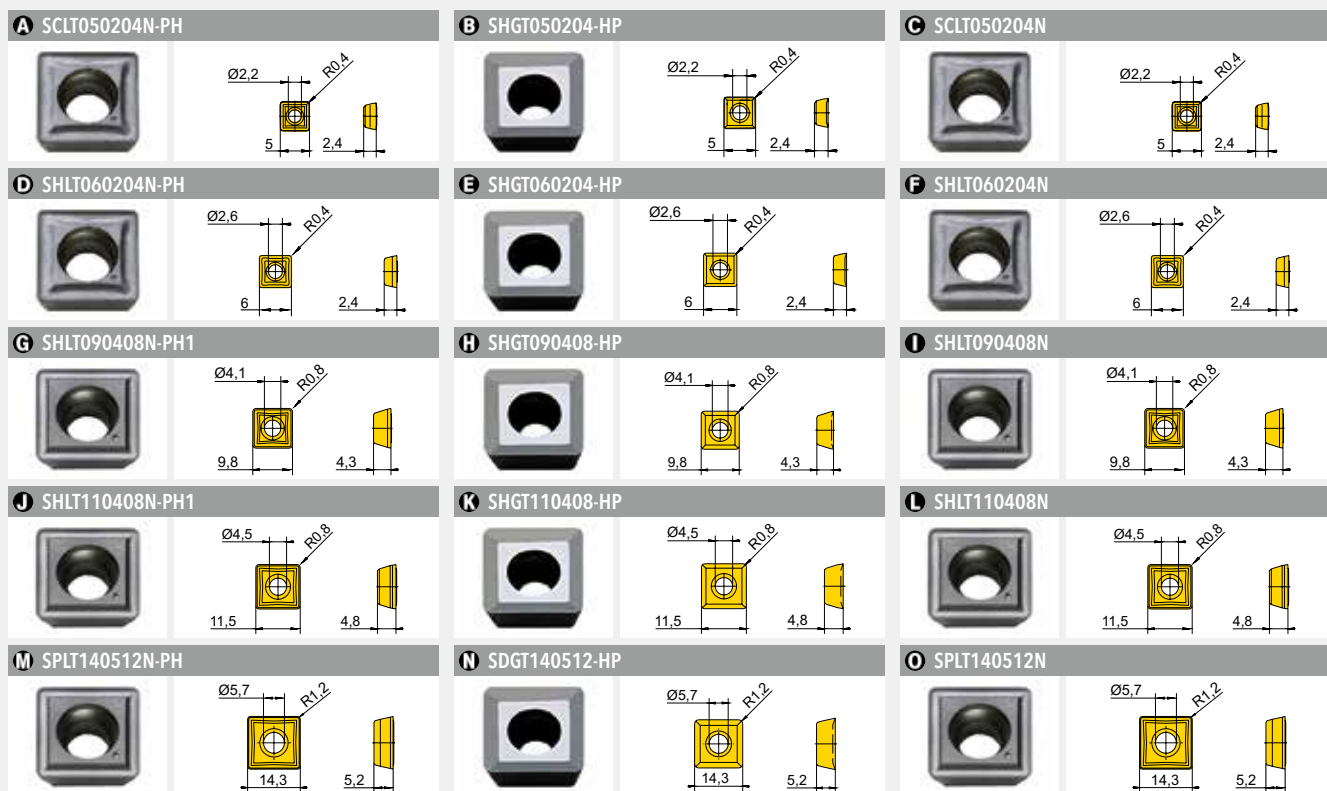
SPARE PARTS
ACCESSOIRES



Diameter Range / Diamètres

10 - 13	SM20-043-00 (0,7Nm) DS-TP06S (TX-Plus)
15 - 20	SM22-052-00 (0,8Nm) DS-T07S
24	SM35-088-60 (3,0Nm) DS-T10S
26 - 36	SM40-093-20 (4,5Nm) DS-T15S
40 - 48	SM50-122-50 (7,5Nm) DS-T20S

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

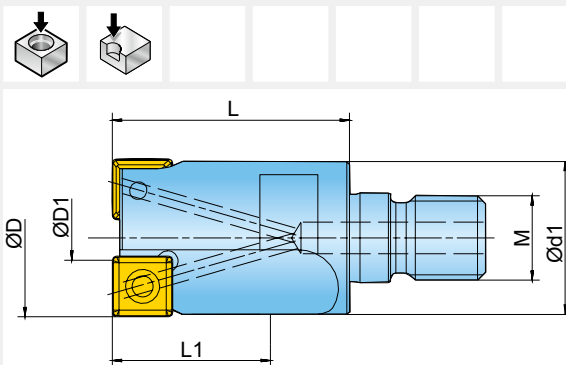


Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2005	IN2010	IN2530	IN6520			
SCLT050204N-PH ¹⁾	0,05/0,12	positive geometry R0,4 / Géométrie positive R0,4									
SHGT050204-HP	0,05/0,12	non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4									
SCLT050204N	0,05/0,12	cast iron geometry R0,4 / Géométrie fonte R 0,4									
SHLT060204N-PH ¹⁾	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									
SHLT090408N-PH1 ¹⁾	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									
SHLT110408N-PH1 ¹⁾	0,08/0,23	positive geometry R0,8 / Géométrie positive R0,8									
SHGT110408-HP	0,14/0,23	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
SHLT110408N	0,16/0,28	cast iron geometry R0,8 / Géométrie fonte R 0,8									
SPLT140512N-PH ¹⁾	0,06/0,26	positive geometry R1,2 / Géométrie positive R1,2									
SDGT140512-HP	0,15/0,26	non-ferrous geometry, polished R1,2 / Géo. pour mat. non fer., polie R1,2									
SPLT140512N	0,18/0,30	cast iron geometry R1,2 / Géométrie fonte R 1,2									

¹⁾ Use IN6520 grade only for peripheral inserts / Le revêtement IN6520 est uniquement pour les plaquettes extérieures

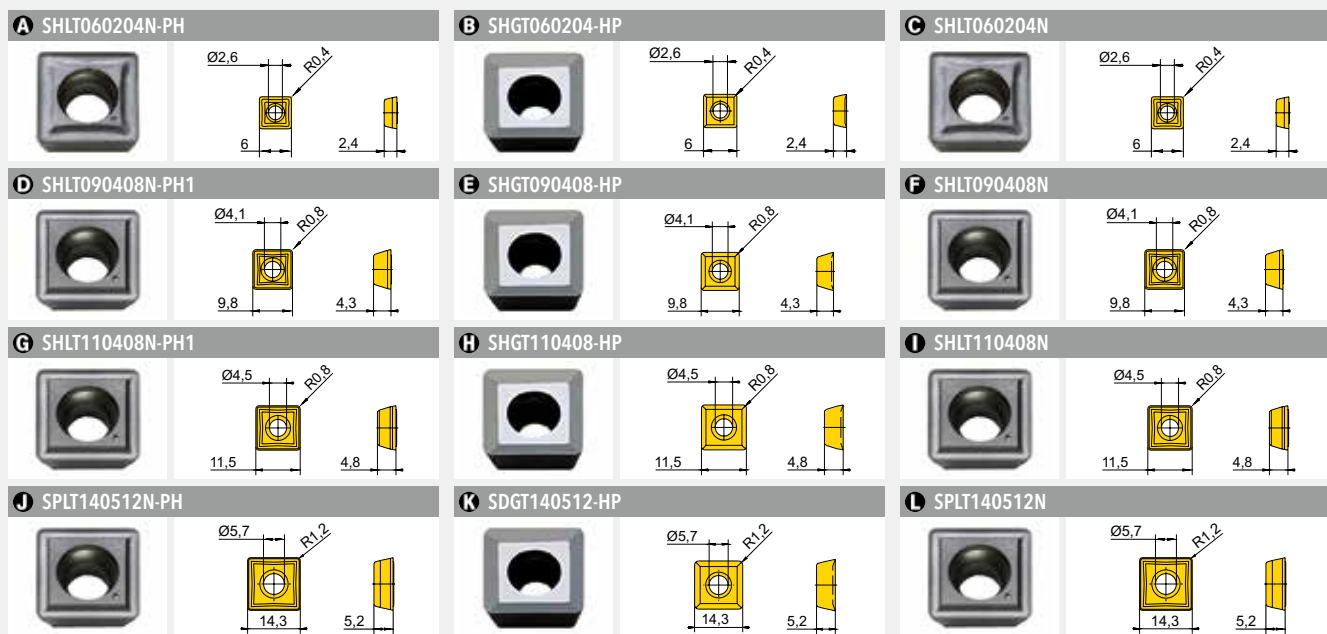
● = P ● = M ● = K ● = N ● = S ○ = H

SCREW-IN TYPE ADAPTION
ATTACHEMENT FILETÉ



Designation Réf. de l'article	D	D1	d1	L	L1	M	Z	IK	kg	Related Insert Plaquette préconisée
15C1D015030X5R01	15	4,5	13	30	15	8	2	✓	0,03	A B C
15C1D018030X5R01	18	7,5	13	30	18	8	2	✓	0,04	A B C
15C1D020035X6R01	20	9,5	18	35	20	10	2	✓	0,06	A B C
15C1F024035X7R01	24	6,5	21	35	24	12	2	✓	0,07	D E F
15C1G026040X7R01	26	5,0	21	40	26	12	2	✓	0,08	G H I
15C1G030045X8R01	30	9,0	29	45	30	16	2	✓	0,15	G H I
15C1G033050X8R01	33	12,0	29	50	33	16	2	✓	0,20	G H I
15C1G036050X8R01	36	15,0	29	50	36	16	2	✓	0,24	G H I
15C1J040060X8R01	40	14,5	29	60	40	16	2	✓	0,30	J K L
15C1J048070X8R01	48	22,0	29	70	48	16	2	✓	0,50	J K L

Diameter D1 corresponds with the minimum diameter of the through hole / D1 représente le diamètre minimal de l'avant trou



Designation Réf. de l'article	fz(min/max)	Design Execution	Grade Nuance	IN10K	IN2005	IN2010	IN2530	IN6520			
SHLT060204N-PH ¹⁾	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									
SHLT090408N-PH1 ¹⁾	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									
SHLT110408N-PH1 ¹⁾	0,08/0,23	positive geometry R0,8 / Géométrie positive R0,8									
SHGT110408-HP	0,14/0,23	non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8									
SHLT110408N	0,16/0,28	cast iron geometry R0,8 / Géométrie fonte R 0,8									
SPLT140512N-PH1 ¹⁾	0,06/0,26	positive geometry R1,2 / Géométrie positive R1,2									
SDGT140512-HP	0,15/0,26	non-ferrous geometry, polished R1,2 / Géo. pour mat. non fer., polie R1,2									
SPLT140512N	0,18/0,30	cast iron geometry R1,2 / Géométrie fonte R 1,2									

¹⁾ Use IN6520 grade only for peripheral inserts / Le revêtement IN6520 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

SPARE PARTS ACCESSOIRES

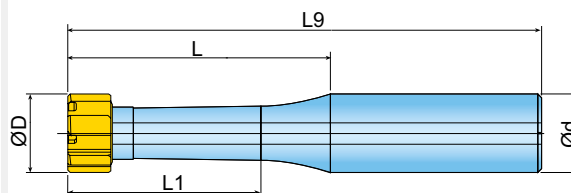


Diameter Range / Diamètres

15 - 20	SM22-052-00 (0,8Nm) DS-T07S
24	SM35-088-60 (3,0Nm) DS-T10S
26 - 36	SM40-093-20 (4,5Nm) DS-T15S
40 - 48	SM50-122-50 (7,5Nm) DS-T20S

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

ADAPTION ACC. TO DIN 6535 HA
ATTACHEMENT DIN 6535 HA



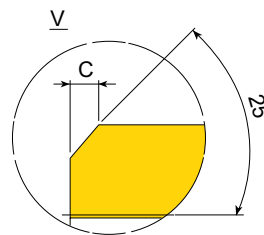
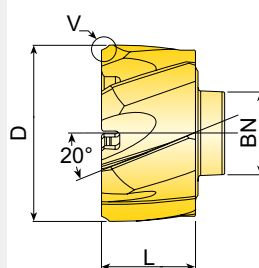
Designation Réf. de l'article	D min.	D max.	d	L	L1	L9	BN	IK
XS5115050T3R01	11,501	13,5	16	49,8	3xD	97,8	BN5	✓
XS5115077T3R01	11,501	13,5	16	77	5xD	125	BN5	✓
XS5115117T3R01	11,501	13,5	16	117,5	8xD	165,5	BN5	✓
XS6135057T3R01	13,501	16	16	57,4	3xD	105,4	BN6	✓
XS6135089T3R01	13,501	16	16	89,4	5xD	137,4	BN6	✓
XS6135137T3R01	13,501	16	16	137,4	8xD	185,4	BN6	✓
XS7160070T4R01	16,001	20	20	70,6	3xD	120,6	BN7	✓
XS7160110T4R01	16,001	20	20	110,6	5xD	160,6	BN7	✓
XS7160171T4R01	16,001	20	20	170,6	8xD	220,6	BN7	✓
XS8200088T4R01	20,001	25,4	20	87,8	3xD	137,8	BN8	✓
XS8200138T4R01	20,001	25,4	20	137,8	5xD	187,8	BN8	✓
XS8200213T4R01	20,001	25,4	20	212,8	8xD	262,8	BN8	✓
XS9250107U7R01	25,401	32	32	107,1	3xD	167,1	BN9	✓
XS9250171U7R01	25,401	32	32	171,1	5xD	231,1	BN9	✓
XS9250267U7R01	25,401	32	32	267,1	8xD	327,1	BN9	✓

SPARE PARTS ACCESSOIRES

Diameter Range / Diamètres

11,501 - 13,5	TM-B5-KEY	TM-B5-SCR
13,501 - 16	TM-B6-KEY	TM-B6-SCR
16,001 - 20	TM-B7-KEY	TM-B7-SCR
20,001 - 25,4	TM-B8-KEY	TM-B8-SCR
25,401 - 32	TM-B9-KEY	TM-B9-SCR

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TÊTES INTERCHANGEABLES



Grade / Nuance

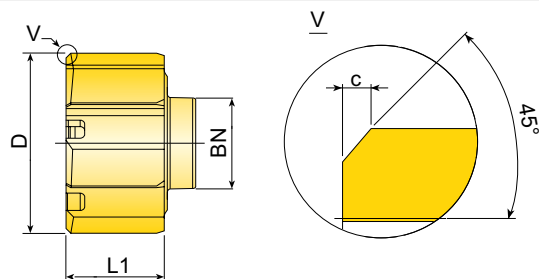
IN2005

P	M	K	N _(K)	S _(M)	H _(PK)
+	+	+		+	

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

Designation Réf. de l'article	Spiral	D	L	C	Z	BN	①
XLB11501R71	LH	11,501	9,3	1,07	6	BN5	TM-B5-KEY
XLB12000R71	LH	12,000	9,3	1,07	6	BN5	TM-B5-KEY
XLB13000R71	LH	13,000	9,3	1,07	6	BN5	TM-B5-KEY
XLB13500R71	LH	13,500	9,3	1,07	6	BN5	TM-B5-KEY
XLB13501R71	LH	13,501	9,4	1,07	6	BN6	TM-B6-KEY
XLB14000R71	LH	14,000	9,4	1,07	6	BN6	TM-B6-KEY
XLB15000R71	LH	15,000	9,4	1,07	6	BN6	TM-B6-KEY
XLB16000R71	LH	16,000	9,4	1,07	6	BN6	TM-B6-KEY
XLB16001R71	LH	16,001	10,6	1,07	6	BN7	TM-B7-KEY
XLB17000R71	LH	17,000	10,6	1,07	6	BN7	TM-B7-KEY
XLB18000R71	LH	18,000	10,6	1,07	6	BN7	TM-B7-KEY
XLB19000R71	LH	19,000	10,6	1,07	6	BN7	TM-B7-KEY
XLB20000R71	LH	20,000	10,6	1,07	6	BN7	TM-B7-KEY
XLB20001R71	LH	20,001	12,8	1,07	8	BN8	TM-B8-KEY
XLB21000R71	LH	21,000	12,8	1,07	8	BN8	TM-B8-KEY
XLB22000R71	LH	22,000	12,8	1,07	8	BN8	TM-B8-KEY
XLB23000R71	LH	23,000	12,8	1,07	8	BN8	TM-B8-KEY
XLB24000R71	LH	24,000	12,8	1,07	8	BN8	TM-B8-KEY
XLB25000R71	LH	25,000	12,8	1,07	8	BN8	TM-B8-KEY
XLB26000R71	LH	26,000	12,8	1,07	8	BN9	TM-B9-KEY
XLB27000R71	LH	27,000	12,8	1,07	8	BN9	TM-B9-KEY
XLB28000R71	LH	28,000	12,8	1,07	8	BN9	TM-B9-KEY
XLB29000R71	LH	29,000	12,8	1,07	8	BN9	TM-B9-KEY
XLB30000R71	LH	30,000	12,8	1,07	8	BN9	TM-B9-KEY
XLB31000R71	LH	31,000	12,8	1,07	8	BN9	TM-B9-KEY
XLB32000R71	LH	32,000	12,8	1,07	8	BN9	TM-B9-KEY

FOR EXCHANGEABLE HEAD SYSTEM
POUR SYSTEME DE TÊTES INTERCHANGEABLES



Grade / Nuance

IN2005

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

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

Designation
Réf. de l'article

Spiral

D

L1

C

Z

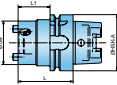
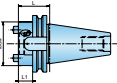
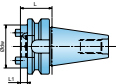
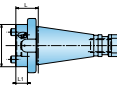
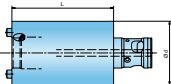
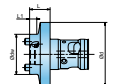
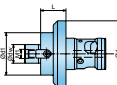
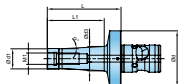
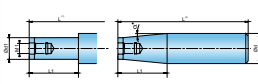
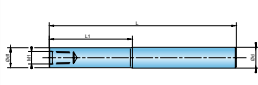
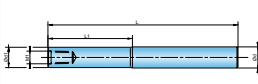
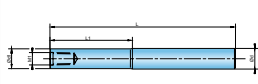
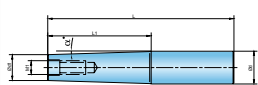
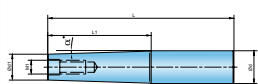
BN

①



XSA11501R71	N	11,501	9,3	0,5	6	BN5	TM-B5-KEY
XSA12000R71	N	12,000	9,3	0,5	6	BN5	TM-B5-KEY
XSA13000R71	N	13,000	9,3	0,5	6	BN5	TM-B5-KEY
XSA13500R71	N	13,500	9,3	0,5	6	BN5	TM-B5-KEY
XSA13501R71	N	13,501	9,4	0,5	6	BN6	TM-B6-KEY
XSA14000R71	N	14,000	9,4	0,5	6	BN6	TM-B6-KEY
XSA15000R71	N	15,000	9,4	0,5	6	BN6	TM-B6-KEY
XSA16000R71	N	16,000	9,4	0,5	6	BN6	TM-B6-KEY
XSA16001R71	N	16,001	10,6	0,5	6	BN7	TM-B7-KEY
XSA17000R71	N	17,000	10,6	0,5	6	BN7	TM-B7-KEY
XSA18000R71	N	18,000	10,6	0,5	6	BN7	TM-B7-KEY
XSA19000R71	N	19,000	10,6	0,5	6	BN7	TM-B7-KEY
XSA20000R71	N	20,000	10,6	0,5	6	BN7	TM-B7-KEY
XSA20001R71	N	20,001	12,8	0,5	8	BN8	TM-B8-KEY
XSA21000R71	N	21,000	12,8	0,5	8	BN8	TM-B8-KEY
XSA22000R71	N	22,000	12,8	0,5	8	BN8	TM-B8-KEY
XSA23000R71	N	23,000	12,8	0,5	8	BN8	TM-B8-KEY
XSA24000R71	N	24,000	12,8	0,5	8	BN8	TM-B8-KEY
XSA25000R71	N	25,000	12,8	0,5	8	BN8	TM-B8-KEY
XSA26000R71	N	26,000	12,8	0,5	8	BN9	TM-B9-KEY
XSA27000R71	N	27,000	12,8	0,5	8	BN9	TM-B9-KEY
XSA28000R71	N	28,000	12,8	0,5	8	BN9	TM-B9-KEY
XSA29000R71	N	29,000	12,8	0,5	8	BN9	TM-B9-KEY
XSA30000R71	N	30,000	12,8	0,5	8	BN9	TM-B9-KEY
XSA31000R71	N	31,000	12,8	0,5	8	BN9	TM-B9-KEY
XSA32000R71	N	32,000	12,8	0,5	8	BN9	TM-B9-KEY

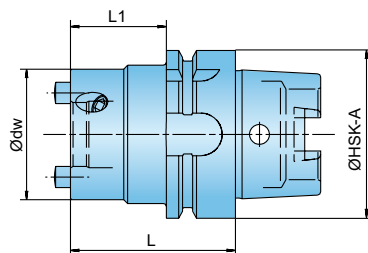
ADAPPTIONS / ATTACHMENTS

	Adaptions / Attachements	Code / Série	Page
	HSK-Adaption HSK 50...100 - modular Attachement HSK 50...100 - Modulaire	INNOFIT™	340
	Taper Adaption DIN 69871 - Modular Attachement DIN69871 - Modulaire	INNOFIT™	341
	Taper Adaption BT40/50 - modular Attachement BT40/50 - Modulaire	INNOFIT™	341
	Taper Adaption DIN 2080 - modular Attachement DIN2080 - Modulaire	INNOFIT™	342
	Extension Z4Z4 / Z5Z5 Rallonge Z4Z4 / Z5Z5	INNOFIT™	343
	Reduction Z5Z4 Réduction Z5Z4	INNOFIT™	344
	Center Pin Z4SM / Z5SM Attachement porte-fraise Z4SM / Z5SM	INNOFIT™	345
	Screw-in Type Mandrin Porte fraises à visser	INNOFIT™	346
	Steel Extension Cylindrical/Conical (Screw-In Type) RALLONGE ACIER CYLINDRIQUE / CoNIQUE (tete vissee)	TOPCON™	347
	Heavy Metal Extension - cylindrical (Screw-In Type) Rallonge en métal lourd cylindrique (tete vissee)	TOPCON™	348
	Solid Carbide Extension - Cylindrical (Screw-In Type) Rallonge cylindrique en carbure (tete vissee)	TOPCON™	349
	Anti-Vibration extension cylindrical (Screw-In Type) Rallonge CYLINDRIQUE ANTI-VIBRATIONS (tete vissee)	TOPCON™	350
	Heavy Metal Extension - conical (Screw-In Type) Rallonge en métal lourd conique (tete vissee)	TOPCON™	351
	Carbide Extension - Conical (Screw-In Type) Rallonge cônica en carbure (tete vissee)	TOPCON™	352

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

A vertical sequence of ten icons representing different types of construction equipment. From top to bottom: 1. A crane on an orange background. 2. An excavator on a pink background. 3. A large excavator bucket on a pink background. 4. A crane hook on a purple background. 5. A circular saw blade on a green background. 6. A crane hook on a teal background. 7. A crane hook on a light blue background. 8. A crane hook on a light blue background. 9. A crane hook on a light blue background. 10. A crane hook on a dark grey background.

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



modular / Modulaire

DIN 69893 / DIN 69893

Designation Réf. de l'article	MOD1	dw	L	L1	HSK-A		
HSKA50Z4SA060	40	49	60	34	50	✓	0,67
HSKA63Z4SA062	40	49	62	35	63	✓	1,04
HSKA63Z4SB062	40	61	62	38	63	✓	1,19
HSKA80Z4SA068	40	49	68	42	80	✓	1,54
HSKA80Z5SA080	50	78	80	54	80	✓	2,41
HSKA100Z4SA080	40	49	80	42	100	✓	2,80
HSKA100Z4SB080	40	61	80	50	100	✓	2,97
HSKA100Z5SA080	50	78	80	50	100	✓	3,50

SPARE PARTS
ACCESSOIRES

①



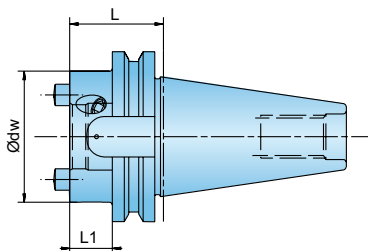
Z1

②



Z1

① = Screw / Vis de serrage ② = Wrench / Clé de serrage



modular / Modulaire

DIN 69871 / DIN 69871

Designation Réf. de l'article	MOD1	dw	L	L1	SK		
69871A40Z4SA035	40	49	35	15	40	✓	0,90
69871A50Z4SA035	40	49	35	13	50	✓	2,71
69871A50Z4SB035	40	61	35	15	50	✓	2,85
69871A50Z5SA035	50	78	35	15	50	✓	2,80

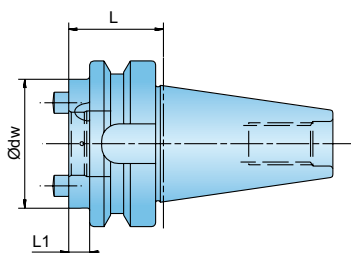
SPARE PARTS
ACCESSOIRES



Z1

Z1

① = Screw / Vis de serrage ② = Wrench / Clé de serrage



modular / Modulaire

JIS-B 6339 / JIS-B 6339

Designation Réf. de l'article	MOD1	dw	L	L1	BT		
BT40Z4SA035	40	49	35	7	40	✓	0,95
BT50Z4SA045	40	49	45	6	50	✓	3,57
BT50Z5SA045	50	78	45	6	50	✓	3,42

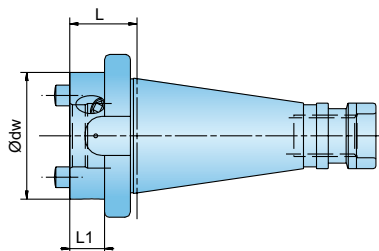
SPARE PARTS
ACCESSOIRES



Z1

Z1

① = Screw / Vis de serrage ② = Wrench / Clé de serrage



modular / Modulaire

DIN 2080 / DIN 2080

Designation Réf. de l'article	MOD1	dw	L	L1	SK		
2080A40Z4SA025	40	49	25	12	40	✓	0,82
2080A50Z4SA035	40	49	35	19	50	✓	2,78
2080A50Z5SA035	50	78	35	19	50	✓	2,95

SPARE PARTS
ACCESSOIRES

①



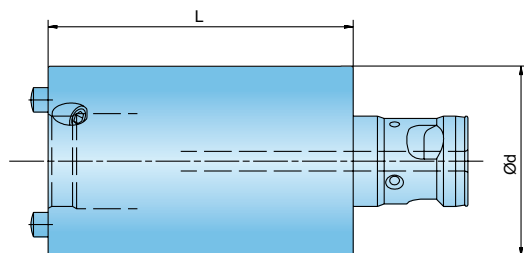
②



Z1

Z1

① = Screw / Vis de serrage ② = Wrench / Clé de serrage



modular / Modulaire

modular / Modulaire

Designation Réf. de l'article	MOD1	d	L	MOD	IK	kg
Z4Z4SA050	40	49	50	40	✓	0,68
Z4Z4SA075	40	49	75	40	✓	1,04
Z4Z4SA100	40	49	100	40	✓	1,39
Z4Z4SB050	40	61	50	40	✓	1,05
Z4Z4SB075	40	61	75	40	✓	1,61
Z4Z4SB100	40	61	100	40	✓	2,17
Z4Z4SB125	40	61	125	40	✓	2,73
Z5Z5SA075	50	78	75	50	✓	2,65
Z5Z5SA100	50	78	100	50	✓	3,57
Z5Z5SA125	50	78	125	50	✓	4,29

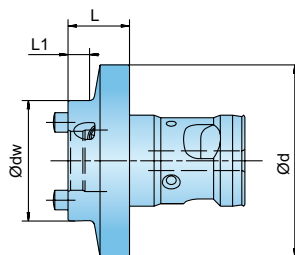
SPARE PARTS
ACCESSOIRES



Z1

Z1

① = Screw / Vis de serrage ② = Wrench / Clé de serrage



modular / Modulaire

modular / Modulaire

Designation Réf. de l'article	MOD1	d	dw	L	L1	MOD	IK	kg
Z5Z4SA025	40	78	49	25	9	50	✓	0,85
Z5Z4SA050	40	78	49	50	34	50	✓	1,20
Z5Z4SA075	40	78	49	75	59	50	✓	1,55
Z5Z4SA100	40	78	49	100	84	50	✓	1,88
Z5Z4SB025	40	78	61	25	9	50	✓	0,92
Z5Z4SB050	40	78	61	50	34	50	✓	1,48
Z5Z4SB075	40	78	61	75	59	50	✓	2,04
Z5Z4SB100	40	78	61	100	84	50	✓	2,60

SPARE PARTS
ACCESSOIRES

①



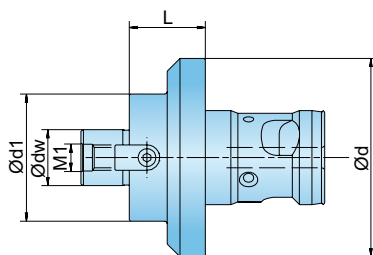
②



Z1

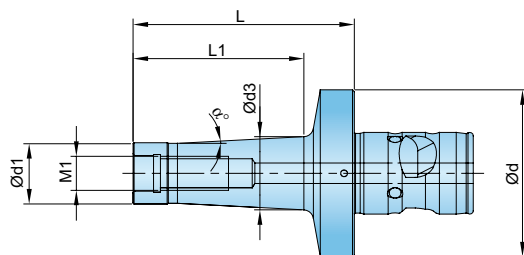
Z1

① = Screw / Vis de serrage ② = Wrench / Clé de serrage



modular / Modulaire

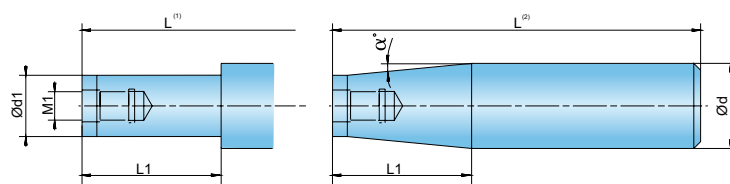
Designation Réf. de l'article	d	dw	d1	L	M1	MOD	IK	kg
Z4SM16SA023	49	16	36	23	8	40	✓	0,38
Z4SM22SA016	49	22	49	16	10	40	✓	0,39
Z4SM27SA020	49	27	60	20	12	40	✓	0,60
Z4SM16SB023	61	16	61	16	10	40	✓	0,42
Z4SM22SB016	61	22	61	16	10	40	✓	0,46
Z4SM27SB020	61	27	61	20	12	40	✓	0,57
Z5SM22SA030	78	22	50	30	10	50	✓	1,14
Z5SM27SA030	78	27	60	30	12	50	✓	1,26
Z5SM32SA030	78	32	78	30	16	50	✓	1,57
Z5SM40SA030	78	40	88	30	20	50	✓	1,94



screw-in type connection / Tête vissée

modular / Modulaire

Designation Réf. de l'article	d	d1	d3	L	L1	α	M1	MOD	IK	kg
Z4MOD08SK065	49	13	17	65	50	3°	8	40	✓	0,32
Z4MOD08SK115	49	13	22	115	100	3°	8	40	✓	0,43
Z4MOD08SK165	49	13	27	165	150	3°	8	40	✓	0,61
Z4MOD10SK065	49	18	22	65	50	3°	10	40	✓	0,36
Z4MOD10SK115	49	18	27	115	100	3°	10	40	✓	0,54
Z4MOD10SK165	49	18	32	165	150	3°	10	40	✓	0,80
Z4MOD12SK065	49	21	25	65	50	3°	12	40	✓	0,40
Z4MOD12SK115	49	21	30	115	100	3°	12	40	✓	0,63
Z4MOD12SK165	49	21	36	165	150	3°	12	40	✓	0,95
Z4MOD08SF065	61	13	17	65	50	3°	8	40	✓	0,41
Z4MOD08SF115	61	13	22	115	100	3°	8	40	✓	0,51
Z4MOD08SF165	61	13	27	165	150	3°	8	40	✓	0,69
Z4MOD10SF065	61	18	22	65	50	3°	10	40	✓	0,45
Z4MOD10SF115	61	18	27	115	100	3°	10	40	✓	0,63
Z4MOD10SF165	61	18	32	165	150	3°	10	40	✓	0,88
Z4MOD12SF065	61	21	25	65	50	3°	12	40	✓	0,49
Z4MOD12SF115	61	21	30	115	100	3°	12	40	✓	0,71
Z4MOD12SF165	61	21	36	165	150	3°	12	40	✓	1,03
Z4MOD16SF065	61	29	33	65	50	3°	16	40	✓	0,60
Z4MOD16SF115	61	29	38	115	100	3°	16	40	✓	0,98
Z4MOD16SF165	61	29	43	165	150	3°	16	40	✓	1,50
Z4MOD16SB070	61	29	29	70	50	-	16	40	✓	0,62
Z4MOD16SB095	61	29	29	95	75	-	16	40	✓	0,74
Z4MOD16SB120	61	29	29	120	100	-	16	40	✓	0,86

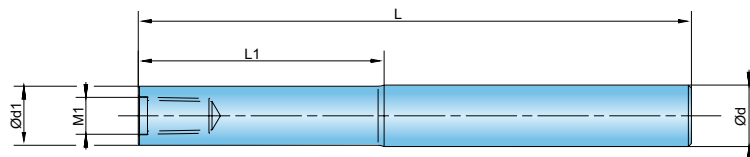


screw-in type connection / Tête vissée

cylindrical shank / Queue Cylindrique

Designation Réf. de l'article	d	d1	L	L1	α	M1	IK	kg
SM06-L60-C10 ¹⁾	10	9,8	60	20	-	6	✓	0,05
SM06-L105-C12 ²⁾	12	9,8	105	60	1,2°	6	✓	0,09
SM06-L125-C16 ²⁾	16	9,8	125	60	3,3°	6	✓	0,10
SM08-L73-C16 ¹⁾	16	13	73	25	-	8	✓	0,11
SM08-L128-C16 ²⁾	16	13	128	80	0,9°	8	✓	0,18
SM08-L170-C20 ²⁾	20	13	170	67	3,3°	8	✓	0,35
SM10-L80-C20 ¹⁾	20	18	80	30	-	10	✓	0,18
SM10-L130-C20 ²⁾	20	18	130	80	0,6°	10	✓	0,27
SM10-L200-C25 ²⁾	25	19	200	57	3,3°	10	✓	0,45
SM12-L86-C25 ²⁾	25	21	86	30	5,1°	12	✓	0,20
SM12-L200-C32 ²⁾	32	21	200	78	4,4°	12	✓	0,60
SM16-L95-C32 ²⁾	32	29	95	35	1,7°	16	✓	0,54
SM16-L230-C32 ²⁾	32	29	230	50	1,8°	16	✓	0,60

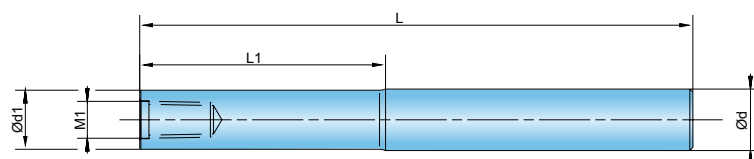
¹⁾Cylindrical; ²⁾Conical



screw-in type connection / Tête vissée

cylindrical shank / Queue Cylindrique

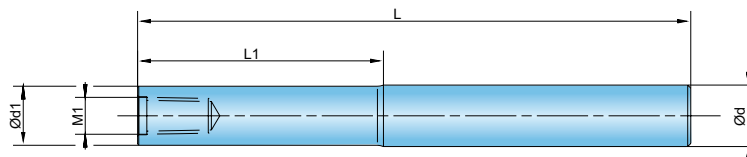
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S016MOD08HA040	16	13	88	40	8
S016MOD08HA060	16	13	108	60	8
S016MOD08HA080	16	13	128	80	8
S016MOD08HA100	16	13	148	100	8



screw-in type connection / Tête vissée

cylindrical shank / Queue Cylindrique

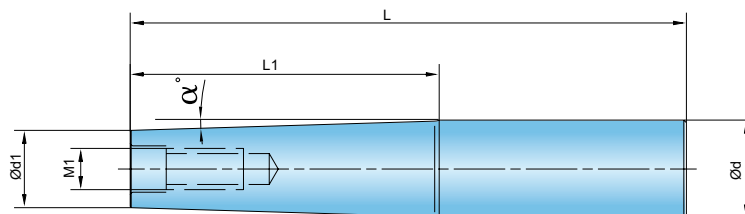
Designation Réf. de l'article	d	d1	L	L1	M1	IK
S010MOD06CA024	10	-	80	-	6	✓
S010MOD06CA031	10	9,8	80	31	6	✓
S010MOD06CA060	10	9,8	110	60	6	✓
S010MOD06CA080	10	9,8	130	80	6	✓
S010MOD06CA100	10	9,8	150	100	6	✓
S012MOD06CA030	12	-	80	-	6	✓
S012MOD06CA031	12	11	80	31	6	✓
S012MOD06CA100-03	12	11	150	100	6	✓
S012MOD06CA040	12	11,8	88	40	6	✓
S012MOD06CA060	12	11,8	108	60	6	✓
S012MOD06CA080	12	11,8	128	80	6	✓
S012MOD06CA100	12	11,8	148	100	6	✓
S014MOD08CA024	14	-	80	-	8	✓
S016MOD08CA055	16	14,4	120	55	8	✓
S016MOD08CA135	16	14,4	200	135	8	✓
S018MOD10CA040	18	-	200	-	10	✓
S019MOD10CA135	19	18	200	135	10	✓
S020MOD10CA055	20	18	120	55	10	✓
S020MOD10CA135	20	18	200	135	10	✓
S025MOD12CA060	25	22,5	125	60	12	✓
S025MOD12CA080	25	22,5	145	80	12	✓
S025MOD12CA100	25	22,5	165	100	12	✓
S025MOD12CA157	25	22,5	250	157	12	✓
S025MOD12CA207	25	22,5	300	207	12	✓
S032MOD16CA207	32	28,6	300	207	16	✓



screw-in type connection / Tête vissée

cylindrical shank / Queue Cylindrique

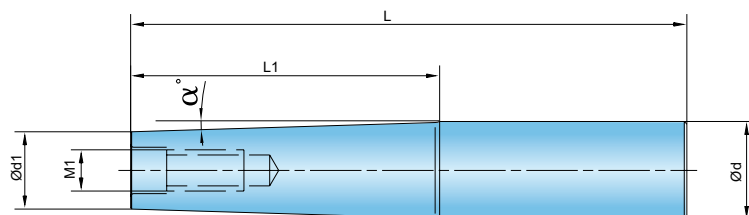
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S012MOD06VA020	12	11	70	20	6	✓
S012MOD06VA070	12	11	120	70	6	✓
S016MOD08VA006	16	14,5	70	6	8	✓
S016MOD08VA056	16	14,5	120	56	8	✓
S020MOD10VA006	20	18	64	6	10	✓
S020MOD10VA024	20	18	89	24	10	✓
S020MOD10VA070	20	18	130	70	10	✓
S020MOD10VA125	20	18	180	125	10	✓
S025MOD12VA015	25	22,6	81	15	12	✓
S025MOD12VA045	25	22,6	111	45	12	✓
S025MOD12VA110	25	22,6	180	110	12	✓
S025MOD12VA155	25	22,6	220	155	12	✓
S032MOD16VA014	32	29,4	103	14	16	✓
S032MOD16VA090	32	29,4	160	90	16	✓
S032MOD16VA108	32	29,4	200	108	16	✓
S032MOD16VA159	32	29,4	250	159	16	✓
S032MOD16VA207	32	30	300	207	16	✓



screw-in type connection / Tête vissée

cylindrical shank / Queue Cylindrique

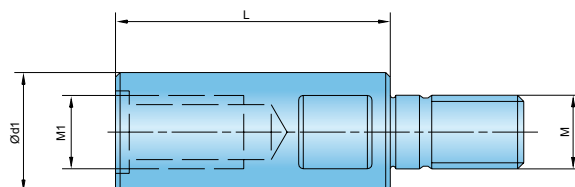
Designation Réf. de l'article	d	d1	L	L1	α	M1
S016MOD08HK040	16	13	88	40	2°	8
S016MOD08HK060	16	13	108	60	1,4°	8
S016MOD08HK080	16	13	128	80	1°	8
S016MOD08HK100	16	13	148	100	0,8°	8
S016MOD08HK120	16	13	168	120	0,7°	8
S020MOD10HK040	20	18	90	40	1,4°	10
S020MOD10HK060	20	18	110	60	0,9°	10
S020MOD10HK080	20	18	130	80	0,7°	10
S020MOD10HK100	20	18	150	100	0,55°	10
S020MOD10HK120	20	18	170	120	0,45°	10



screw-in type connection / Tête vissée

cylindrical shank / Queue Cylindrique

Designation Réf. de l'article	d	d1	L	L1	α	M1	IK
S016MOD08CK040	16	13	88	40	1,9°	8	✓
S016MOD08CK060	16	13	108	60	1,3°	8	✓
S016MOD08CK080	16	13	128	80	0,95°	8	✓
S016MOD08CK100	16	13	148	100	0,8°	8	✓
S016MOD08CK120	16	13	168	120	0,65°	8	✓
S020MOD10CK040	20	18	90	40	1,2°	10	✓
S020MOD10CK060	20	18	110	60	0,8°	10	✓
S020MOD10CK080	20	18	130	80	0,6°	10	✓
S020MOD10CK100	20	18	150	100	0,5°	10	✓
S020MOD10CK120	20	18	170	120	0,4°	10	✓

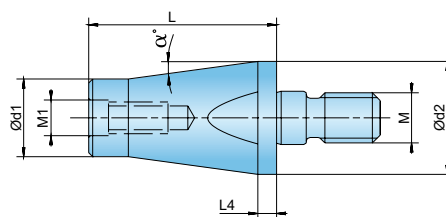


screw-in type connection / Tête vissée

screw-in type connection / Tête vissée

Designation Réf. de l'article	d1	L	M	M1	IK
CABM06M06-C	9,8	25	6	6	✓
CABM08M08-C	13	30	8	8	✓
CABM10M10-C	18	35	10	10	✓
CABM12M12-C	21	40	12	12	✓
CABM16M16-C	29	40	16	16	✓

**TOPPOON™ REDUCTION (SCREW-IN TYPE)
RÉDUCTEUR (TÊTE VISSÉE)**



screw-in type connection / Tête vissée

screw-in type connection / Tête vissée

Designation Réf. de l'article	d1	d2	L	L4	α	M	M1	IK	kg
CABM06M08	9,7	13	30	4	5,7°	8	6	✓	0,08
CABM08M10	13	18	40	5	5,2°	10	8	✓	0,08
CABM10M12	18	21	45	7	2,5°	12	10	✓	0,10
CABM12M16	21	29	50	6	6,3°	16	12	✓	0,20

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12A5S010035T1R00	180	12J1D010017X4R00	22	12J1R025035X7R01	34
12A5S010075T1R00	180	12J1D010018W3R00	21	12J1R025040W5R00	30
12A5S010140T1R00	180	12J1D010018W3R01	21	12J1R025040W5R01	30
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12A5U016080T3R00	180	12J1D012023X4R00	22	12J1R032043X8R00	34
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12A5V020220T4R00	180	12J1D015023X5R00	22	12J1R035043X8R00	34
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17T21730T8RP02	248	1KJ1D020075W4R00	36	22J3G063059F2R01	60
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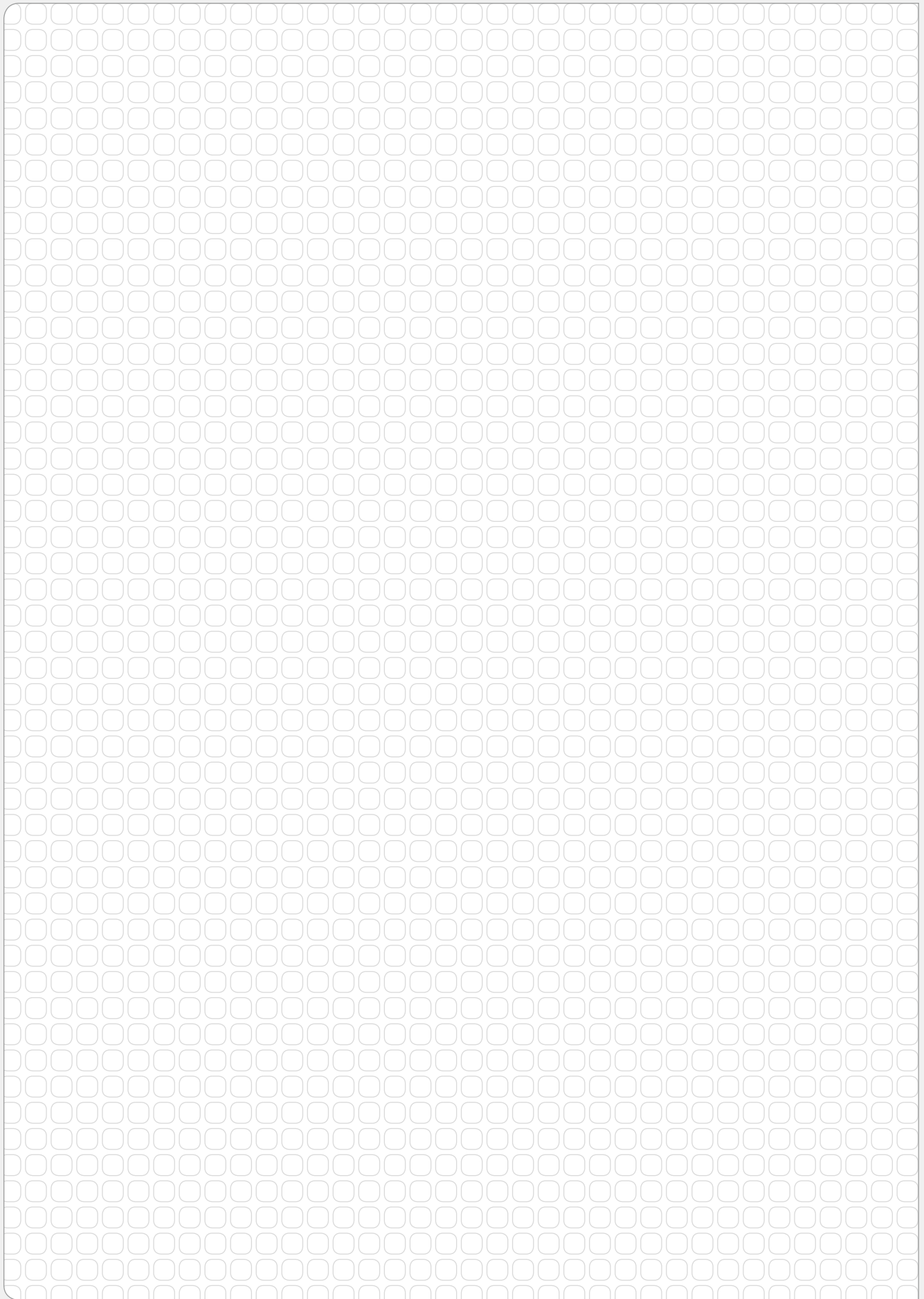
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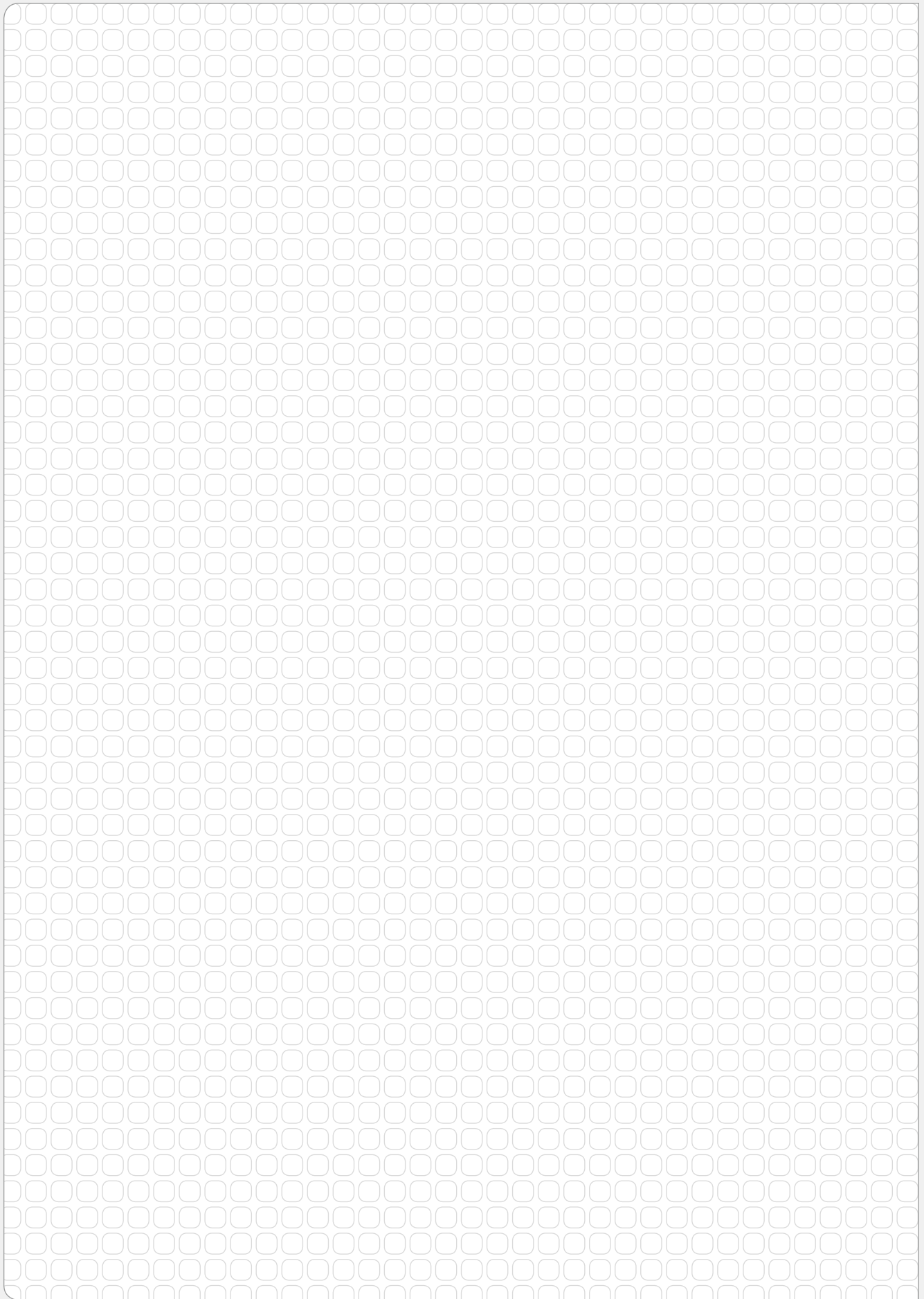
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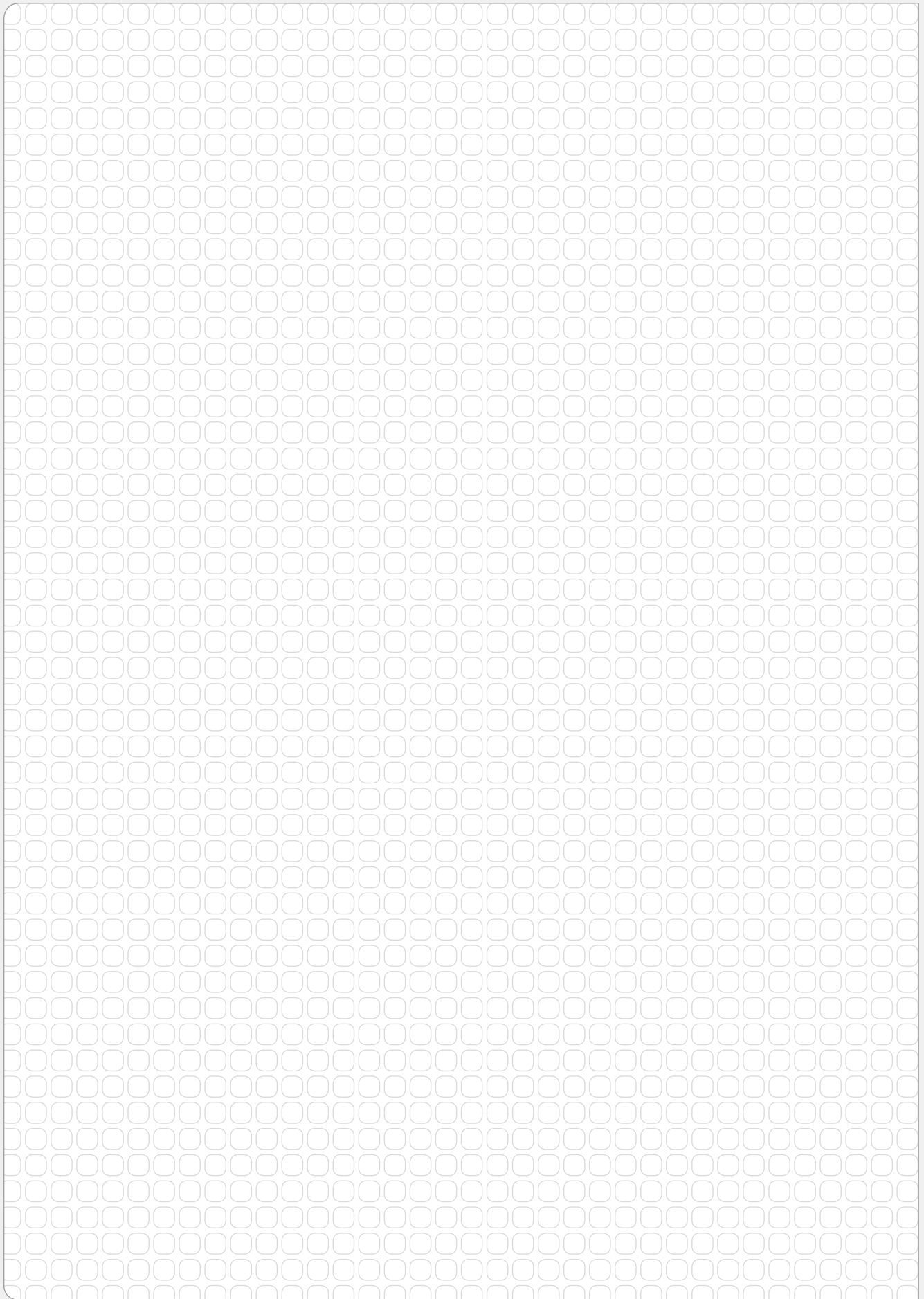
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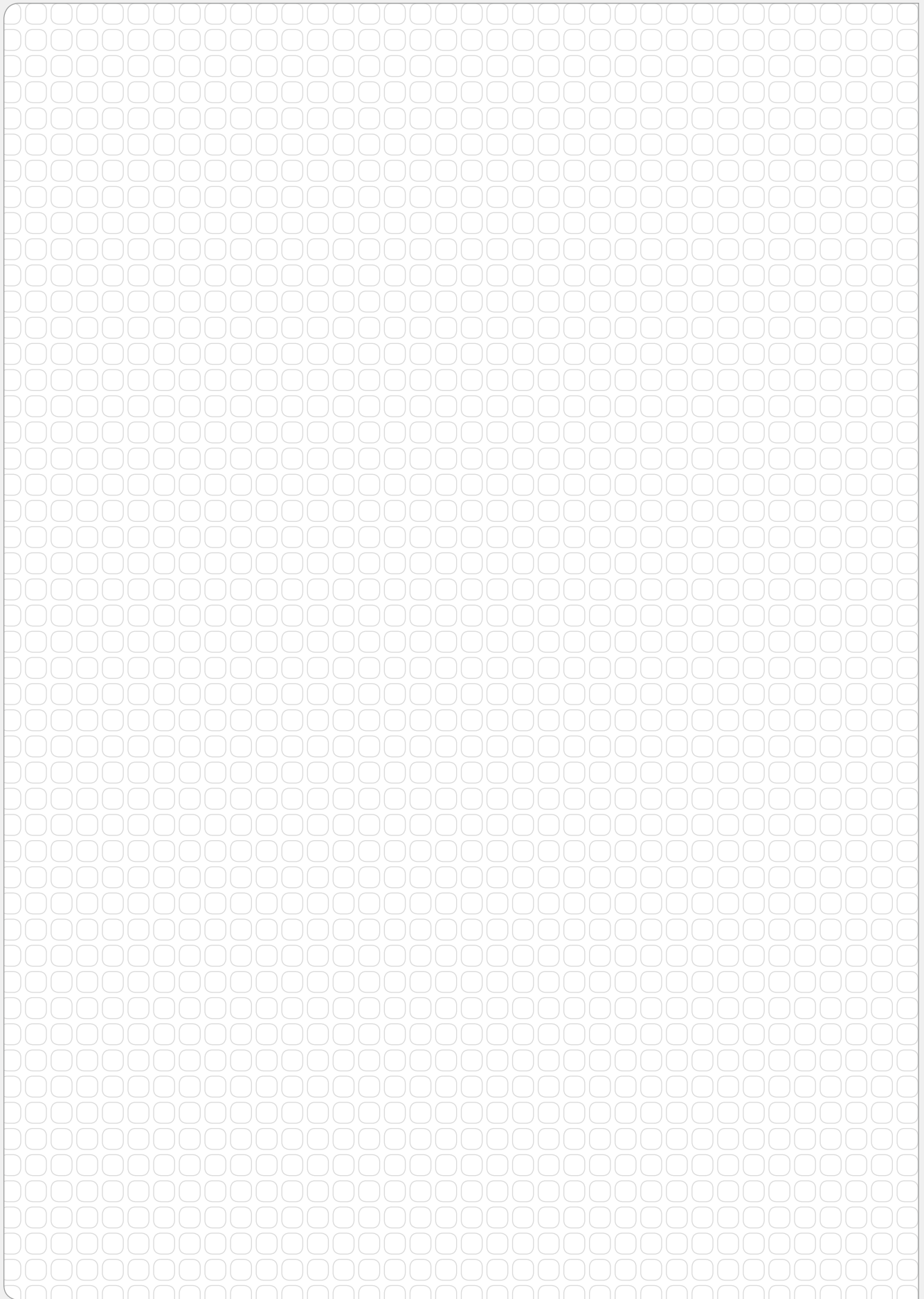
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ALLGEMEINE VERKAUFSBEDINGUNGEN - STAND DEZEMBER 2008

Zur Verwendung gegenüber:

1. einer Person, die bei Abschluss des Vertrages in Ausübung ihrer gewerblichen oder selbstständigen beruflichen Tätigkeit handelt (Unternehmer);
2. juristischen Personen des öffentlichen Rechts oder einem öffentlich-rechtlichen Sondervermögen

I. Inhalt und Abschluss der Lieferverträge

1. Für alle unsere Lieferungen und Leistungen gelten ausschließlich diese Allgemeine Verkaufsbedingungen.
2. Einkaufsbedingungen und andere Geschäftsbedingungen des Bestellers sind für uns unverbindlich, auch wenn wir in Kenntnis von abweichenden oder entgegenstehenden Geschäftsbedingungen des Bestellers nicht ausdrücklich widersprechen. Sie werden auch durch Auftragsannahme nicht Vertragsbestandteil.
3. Unsere Angebote sind freibleibend. Der Auftrag gilt erst mit dem Zugang unserer schriftlichen Auftragsbestätigung als angenommen.
4. Die Auftragsbestätigung ist für Inhalt und Umfang des Auftrages maßgebend. Vor und im Zusammenhang mit der Auftragsbestätigung gemachte Angaben über technische Daten sowie dem Besteller überlassene Unterlagen, Abbildungen, Zeichnungen und Prospekte sind nur verbindlich, wenn wir dies ausdrücklich schriftlich bestätigt haben.
5. Abweichungen von diesen Allgemeinen Verkaufsbedingungen, ergänzende Vereinbarungen und Nebenabreden sind nur wirksam, wenn sie von uns ausdrücklich schriftlich bestätigt worden sind. Dasselbe gilt für nachträgliche Änderungen und Ergänzungen von fest abgeschlossenen Lieferverträgen.
6. Wir behalten uns Konstruktionsänderungen vor, soweit diese nicht wesentliche uns bekannte Interessen des Bestellers hinsichtlich der bei der Bestellung beabsichtigten Verwendung beeinträchtigen.

II. Preise

Maßgebend für die Berechnung sind die Listenpreise zum Zeitpunkt der Auftragsbestätigung. Diese Preise schließen Mehrwertsteuer, Fracht, Zoll, Porto, Verpackung, Versicherung und sonstige Spesen nicht ein. Die Verpackung wird zu den Selbstkosten berechnet; ihre Rücknahme ist ausgeschlossen. Der Besteller ist verpflichtet, für eine Entsorgung der Verpackungen auf eigene Kosten zu sorgen.

III. Lieferfrist

1. Eine vereinbarte Lieferfrist beginnt mit dem Datum unserer Auftragsbestätigung. Die Frist ist eingehalten, wenn der Liefergegenstand vor Fristablauf abgesandt bzw. bei Abholaufträgen die Versandbereitschaft gemeldet wird.
2. Bei nicht rechtzeitiger Klarstellung aller Einzelheiten des Auftrages durch den Besteller, sowie Nichterfüllung der dem Besteller obliegenden Verpflichtungen verlängern sich die Liefertermine entsprechend.
3. Alle vereinbarten Lieferfristen gelten vorbehaltlich richtiger und rechtzeitiger Zulieferungen.
4. Die Lieferzeit verlängert sich angemessen bei Betriebsstörungen, behördlichen Maßnahmen, Ausbleiben von Zulieferungen, höherer Gewalt oder sonstigen Ereignissen, die außerhalb unseres Einflussbereiches liegen. Höhere Gewalt liegt auch vor bei Arbeitskämpfmaßnahmen, einschließlich Streiks und rechtmäßigen Aussperrungen in unserem Betrieb oder bei unseren Vorlieferanten, sowie bei von uns nicht zu vertretenden Umständen wie Mobilmachung, Krieg und Aufruf, wenn diese Hindernisse nachweislich die Fertigstellung oder Lieferung des Liefergegenstandes verzögern. Die vorbezeichneten Umstände sind auch dann von uns nicht zu vertreten, wenn sie während eines bereits vorliegenden Verzuges entstehen. Für den Fall der arbeitskampfbedingten Unmöglichkeit der Lieferung werden wir von unserer Verpflichtung befreit. Beginn und Ende derartiger Hindernisse werden wir in wichtigen Fällen dem Besteller baldmöglichst mitteilen.

IV. Lieferung, Versand, Gefährübergang

1. Wir sind zu Teillieferungen berechtigt, sofern nicht ausdrücklich etwas anderes vereinbart wurde. Teillieferungen gelten für Zahlungspflichten, Gefährübergang und Gewährleistungspflichten als selbstständige Lieferungen. Selbstständige Teillieferungen darf der Besteller nicht zurückweisen.
2. Die Versendungsart, den Versandweg und die mit dem Versand beauftragte Firma können wir nach unserem Ermessen bestimmen, sofern der Besteller keine Weisungen gibt.
3. Die Gefahr geht auf den Besteller über, sobald die Sendung mit den Liefergegenständen unser Werk oder Lager verlässt. Das gilt auch bei Verwendung eigener Transportmittel. Der Besteller darf die Abnahme bei Vorliegen eines nicht wesentlichen Mangels nicht verweigern.

V. Zahlung

1. Sind keine besonderen Vereinbarungen mit dem Besteller getroffen, sind Zahlungen innerhalb von 30 Tagen nach Rechnungserhalt zu leisten.
2. Das Recht, Forderungen abzutreten, bleibt vorbehalten.
3. Wechsel oder Schecks werden nur nach Vereinbarung und nur der Erfüllung halber entgegengenommen. Diskont- und Einzugsspesen gehen zu Lasten des Bestellers. Für rechtzeitige Vorlage übernehmen wir keine Haftung.
4. Werden vereinbarte Teilzahlungsraten nicht eingehalten, wird der Restkaufpreis sofort fällig. Außerdem können wir in diesen Fällen die Auslieferung weiterer bestellter Ware von einer Vorauszahlung des Kaufpreises abhängig machen.
5. Aufrechnung mit Gegenforderungen, die von uns bestritten werden und nicht rechtskräftig festgestellt sind, ist ausgeschlossen.
6. Ein Zurückbehaltungsrecht wegen derartiger Gegenforderungen ist ausgeschlossen.

VI. Eigentumsvorbehalt

1. Wir behalten uns das Eigentum an den Liefergegenständen bis zur vollständigen Bezahlung aller Forderungen aus dem Liefervertrag einschließlich Nebenforderungen (z.B. Wechselkosten, Finanzierungskosten, Zinsen etc.) vor.
2. Wir behalten uns das Eigentum an den Liefergegenständen außerdem bis zur vollständigen Bezahlung aller Warenlieferungen und sonstigen Forderungen aus der Geschäftsverbindung vor. Der Eigentumsvorbehalt erlischt mit jedem vollständigen Kontoausgleich an den bis dahin gelieferten Waren.
3. Der Besteller darf die Liefergegenstände vor Bezahlung aller gesicherten Forderungen weder verpfänden noch zur Sicherung übereignen. Über Pfändungen, Beschlagnahmen oder sonstige Gefährdungen unseres Eigentums durch Dritte hat der Besteller uns sofort zu benachrichtigen und uns Abschriften der zugehörigen Unterlagen (Pfändungsprotokolle etc.) zu überlassen. Kosten einer Intervention gehen stets zu Lasten des Bestellers.
4. Der Besteller ist berechtigt, die Liefergegenstände im Rahmen des ordnungsmäßigen Geschäftsganges zu verarbeiten und weiter zu veräußern.
5. Für den Fall, dass der Besteller die Liefergegenstände vor Bezahlung aller gesicherten Forderungen veräußert, tritt er seine Forderungen aus dem Weiterverkauf bereits mit Abschluss des Liefervertrages an uns zur Sicherung der durch die Liefergegenstände gesicherten Forderungen ab. Wenn die Forderung aus dem Weiterverkauf in ein Kontokorrentverhältnis zwischen dem Besteller und seinem Kunden eingestellt wird, erstreckt sich diese Sicherungsabtretung in gleicher Höhe auf die Saldoforderung. Der Besteller darf die abgetretene Forderung einziehen, solange wir diese Ermächtigung nicht widerrufen. Zum Widerruf sind wir berechtigt, wenn unsere gesicherten Forderungen gefährdet werden, insbesondere wenn der Besteller mit seinen Zahlungen in Verzug gerät. Die Einziehungsermächtigung erlischt ohne weiteres zu dem Zeitpunkt, in dem der Besteller seine Zahlungen einstellt oder Antrag auf Eröffnung des Insolvenzverfahrens gestellt wird.

Nach dem Widerruf beziehungsweise Erlöschen der Einziehungsermächtigung sind wir berechtigt und der Besteller verpflichtet, die Abtretung dem Schuldner der abgetretenen Forderung anzuzeigen. Der Besteller hat sich jeder Einziehung zu enthalten und dennoch eingehende Beträge für uns getrennt zu verwahren.

Der Besteller hat uns auf unser Verlangen jederzeit schriftlich mitzuteilen, an wen er die Liefergegenstände weiterverkauft hat und uns alle Auskünfte und Unterlagen über die abgetretene Forderung zu geben.

6. Eine Verarbeitung der Vorbehaltsware durch den Besteller wird immer für uns vorgenommen. Wenn die Vorbehaltsware mit anderen Sachen verarbeitet wird, die uns nicht gehören, so erwerben wir Miteigentum an der neuen Sache im Verhältnis des Wertes der Vorbehaltsware (Rechnungsbetrag inklusive der Umsatzsteuer) zu den anderen verarbeiteten Sachen im Zeitpunkt der Verarbeitung. Im Übrigen gilt für die durch Verarbeitung entstehende neue Sache das gleiche wie für die Vorbehaltsware.

Wird die Vorbehaltsware mit anderen, uns nicht gehörenden Sachen untrennbar verbunden oder vermischt, so erwerben wir Miteigentum an der neuen Sache im Verhältnis des Wertes der Vorbehaltsware (Rechnungsbetrag inklusive der Umsatzsteuer) zu den anderen verbundenen oder vermischten Sachen im Zeitpunkt der Verbindung oder Vermischung.

Wird die Vorbehaltsware in der Weise verbunden oder vermischt, dass die Sache des Bestellers als Hauptsache anzusehen ist, sind der Besteller und wir uns bereits jetzt einig, dass der Besteller uns anteilmäßig Miteigentum an dieser Sache überträgt. Das so entstandene Alleineigentum oder Miteigentum an einer Sache wird der Besteller für uns verwahren. Im Falle einer Veräußerung der Ware, an der wir so Alleineigentum oder Miteigentum haben, gilt die vorstehende Ziffer 5.

7. Bei vertragswidrigem Verhalten des Bestellers, insbesondere bei Zahlungsverzug, sind wir zur Rücknahme des Liefergegenstandes nach Mahnung berechtigt und der Kunde zur Herausgabe verpflichtet.
8. Übersteigt der Wert der für uns bestehenden Sicherheiten die gesicherten Forderungen um mehr als 20%, dann sind wir auf Verlangen verpflichtet, die übersteigenden Sicherheiten freizugeben. Die Auswahl der freizugebenden Sicherheiten bleibt uns überlassen.

VII. Rückgabe, Umtausch, Reklamationen

1. Reklamationen müssen als Franko-Rücksendung unter Angabe von Auftragsnummer und Lieferdatum erfolgen. Ohne diese Voraussetzungen ist die Bearbeitung nicht möglich.
2. Ist die Ware gemäß Ziffer VII mangelhaft, richtet sich die Abwicklung der Reklamation nach Ziffer VIII.
3. Im Übrigen erfolgt die Rücknahme der Ware nach unserem Ermessen durch Rücksendung innerhalb von 14 Tagen in der Original-Ingersoll-Lieferverpackung. Voraussetzung für die Rücknahme ist der Ersatz der entstehenden Bearbeitungskosten im Einzelfall 20% des Warenwertes, mindestens jedoch 25 Euro.

VIII. Gewährleistung, Mängelrüge

1. Wir gewährleisten, dass die Liefergegenstände nach dem jeweiligen Stand der Technik frei von Fehlern sind.
2. Für Mängel der Lieferung haften wir unter Ausschluss weiterer Ansprüche wie folgt:
 - 2.1 Die Gewährleistungsfristen betragen bei Neuprodukten ab Gefährübergang zwölf Monate.
 - 2.2 Bei gebrauchten Produkten wird die Gewährleistung ausgeschlossen. Gebrauchte Liefergegenstände werden in dem Zustand geliefert, in dem sie sich bei Vertragsabschluss befinden. Jede Haftung für offene oder versteckte Mängel ist auch dann ausgeschlossen, wenn der Liefergegenstand vorher vom Besteller nicht bemängelt worden ist, es sei denn, wir hätten dem Besteller uns bekannte Mängel vorsätzlich oder grob fahrlässig verschwiegen.
3. Die Regelungen des Absatzes 1 gelten nicht bei zugesicherten Eigenschaften oder bei schuldhafter Verletzung vertragswesentlicher Pflichten. Derartige Ansprüche des Bestellers sowie Ansprüche wegen Schäden, die nicht am Liefergegenstand selbst entstanden sind, werden gemäß den Regelungen der allgemeinen Haftungsbeschränkung im gesetzlich zulässigen Rahmen ausgeschlossen. Wird im Rahmen der Gewährleistung nachgebessert oder nachgeliefert, löst dies keinen neuen Beginn der Gewährleistungsfrist aus.
4. Eigenschaften sind nur dann zugesichert, wenn sie als solche ausdrücklich im Vertrag bezeichnet sind. Mündliche Angaben, sowie Angaben in unseren allgemeinen Verkaufsunterlagen enthalten keine Zusicherungen. Muster, Maße, DIN-Bestimmungen, Leistungsbeschreibungen und sonstige Angaben über die Beschaffenheit des Liefergegenstandes dienen der Spezifikation und sind keine zugesicherten Eigenschaften. Soweit die von uns zu verwendenden Materialien vertraglich spezifiziert sind, gewährleistet dies nur die Übereinstimmung mit der Spezifikation und nicht die Geeignetheit der Materialien für den vertraglichen Zweck. Zu Hinweisen gegenüber dem Käufer sind wir nur bei offensichtlich ungeeigneter dieser Materialien verpflichtet.
5. Schäden, die nach Gefährübergang durch äußeren Einfluss, unsachgemäße Behandlung, mangelhafte Bedienung oder Wartung, Korrosion, ungeeignete Betriebsmittel, Nichtbeachtung von Anwendungshinweisen, oder durch sonstiges Verschulden des Bestellers oder gewöhnliche Abnutzung entstanden sind, sind von der Gewährleistung ausgenommen. Unsere Gewährleistung entfällt für Liefergegenstände, die der Besteller ohne unsere Zustimmung eigenmächtig verändert hat.
6. Der Besteller ist verpflichtet, den Liefergegenstand unverzüglich nach Erhalt ordnungsgemäß auf seine Kosten zu prüfen und etwaige Mängel, Falschlieferungen oder Fehlmengen, uns gegenüber unverzüglich schriftlich anzuzeigen. Für die Anzeige gilt eine Ausschlussfrist von sieben Tagen ab Erhalt der Lieferung. Verdeckte Mängel sind uns unverzüglich nach Entdeckung schriftlich anzuzeigen. Im Übrigen bleiben die §§ 377 ff. HGB unberührt.
7. Etwaige Qualitätsmängel einer Teillieferung berechtigen nicht zur Zurückweisung des Restes der bestellten Menge, es sei denn, der Besteller kann nachweisen, dass die Annahme nur eines Teils der Lieferung unter Berücksichtigung der Umstände für ihn unzumutbar ist.
8. Stellt der Besteller einen Mangel fest, so darf er den Liefergegenstand nicht verändern, verarbeiten oder an Dritte herausgeben, sondern hat uns ausreichend Gelegenheit und Zeit einzuräumen, uns von dem Mangel zu überzeugen und gegebenenfalls die erforderliche Nachbesserung oder Ersatzlieferung vorzunehmen; andernfalls entfallen Mängelansprüche. Nur in dringenden Fällen der Gefährdung der Betriebssicherheit bzw. zur Abwehr unverhältnismäßig großer Schäden, wobei wir unverzüglich zu benachrichtigen sind, hat der Besteller das Recht, den Mangel selbst oder durch Dritte beseitigen zu lassen und von uns Ersatz der erforderlichen Aufwendungen zu verlangen. Unabhängig vom Vorliegen eines Mangels erlöschen Gewährleistungsansprüche auch dann, wenn ohne die Genehmigung von uns seitens des Bestellers oder eines Dritten Änderungs- oder Instandsetzungsarbeiten vorgenommen werden.
9. Transport Schäden sind uns unverzüglich schriftlich mitzuteilen.
10. Bei berechtigter Beanstandung derjenigen Teile, die sich infolge eines vor dem Gefährübergang liegenden Umstandes als mangelhaft herausstellen, erfolgt nach unserer Wahl Nachbesserung fehlerhafter Ware oder Ersatzlieferung. Mehrfache Nachbesserungen sind zulässig.
11. Im Falle der Mängelbeseitigung sind wir verpflichtet, alle zu diesem Zwecke erforderlichen Aufwendungen, insbesondere Transport-, Wege-, Arbeits- und Materialkosten zu tragen, soweit sich diese nicht dadurch erhöhen, dass die Kaufsache an einen anderen Ort als den Erfüllungsort gebracht wurde.
12. Zur Vornahme aller uns notwendig erscheinenden Nachbesserungen oder Ersatzlieferungen hat der Besteller nach Verständigung mit uns die erforderliche Zeit und Gelegenheit zu geben; andernfalls sind wir von der Haftung für die daraus entstehenden Folgen befreit.
13. Lassen wir eine uns gesetzte, angemessene Nachfrist zur Nacherfüllung im Sinne des § 439 BGB verstreichen, ohne den Mangel zu beheben oder Ersatz zu liefern oder uns eine Nachbesserung oder Ersatzlieferung unmöglich ist, fehlschlägt oder aus sonstigen Gründen von uns verweigert wird, steht dem Besteller, unter Ausschluss aller weiteren dem Liefergegenstand betreffenden Ansprüche nur das Recht zu, von dem Vertrag zurückzutreten oder den Kaufpreis zu mindern. Liegt nur ein unerheblicher Mangel vor, steht dem Besteller lediglich das Recht zur Minderung zu.

IX. Haftung

1. Schadensersatzansprüche des Bestellers sind ausgeschlossen. Wir haften deshalb nicht für Schäden, die nicht am Liefergegenstand selbst entstanden sind; insbesondere haften wir nicht für entgangenen Gewinn und für sonstige Vermögensschäden des Bestellers.
2. Der Haftungsausschluss gemäß Abs. 1 gilt nicht im Falle vorsätzlichen und grob fahrlässigen Handelns, für Ansprüche aus einer Garantie, bei einer Verletzung von Leben, Körper oder Gesundheit, für Ansprüche gemäß § 1, 4 Produkthaftungsgesetz sowie für die leicht fahrlässige Verletzung wesentlicher Vertragspflichten. Bei leicht fahrlässiger Verletzung wesentlicher Vertragspflichten ist die Haftung jedoch auf den Ersatz des bei Vertragsschluss vorhersehbaren, typischen Schadens beschränkt. Gleiches gilt bei grob fahrlässigem Handeln einfacher Erfüllungsgehilfen.
3. Soweit unsere Haftung ausgeschlossen oder beschränkt ist, gilt dies auch für die persönliche Haftung unserer Angestellten, Arbeitnehmer, Mitarbeiter, Vertreter und Erfüllungsgehilfen.

X. Rücktritt und Entschädigung für nicht ausgeführte Bestellungen

1. Wir können vom Vertrag zurücktreten und die sofortige Rückgabe des Liefergegenstandes verlangen, wenn uns eine Zahlungseinstellung, die Eröffnung des Konkurs- oder gerichtlichen Vergleichsverfahrens, die Ablehnung des Konkurses mangels Masse, Wechsel- oder Scheckproteste oder andere konkrete Anhaltspunkte Verschlechterungen in den Vermögensverhältnissen des Bestellers bekannt werden.
2. Wenn wir aus Gründen, die der Besteller zu vertreten hat, vom Vertrag zurücktreten oder wenn die Bestellung aus derartigen Gründen nicht ausgeführt wird, dann hat der Besteller an uns für unsere Aufwendungen und den entgangenen Gewinn eine pauschale Entschädigung von 10% des Kaufpreises zu zahlen. Uns bleibt das Recht vorbehalten, einen nachweisbaren höheren Schaden zu verlangen. Die pauschale Entschädigung mindert sich in dem Maße, wie der Besteller nachweist, dass Aufwendungen oder ein Schaden nicht entstanden sind.

XI. Eigentums- und Urheberrechte aus Unterlagen

1. Zeichnungen, Skizzen, Spezifikationen, Modelle, Muster und andere Unterlagen bleiben unser ausschließliches Eigentum. Sie werden nur zu dem vereinbarten Zweck anvertraut und dürfen zu keinem anderen Zweck verwendet werden. Kopien oder sonstige Vervielfältigungen dürfen nur zu dem vereinbarten Zweck angefertigt werden. Weder Originale noch Vervielfältigungen dürfen ohne unsere ausdrückliche Zustimmung anderen ausgehändigt werden oder in sonstiger Weise zugänglich gemacht werden. Sie sind uns auf unser Verlangen einschließlich aller eventuell gefertigten Kopien und Abschriften sofort zurückzugeben. Das Urheberrecht an den Unterlagen verbleibt bei uns.

XII. Form von Erklärungen

Rechtserhebliche Erklärungen und Anzeigen, die der Besteller gegenüber uns oder einem Dritten im Zusammenhang mit der Lieferung abzugeben hat, bedürfen der Schriftform.

XIII. Erfüllungsort, Gerichtsstand, Teilunwirksamkeit, anwendbares Recht

1. Als Erfüllungsort für alle beiderseitigen aus dem Vertrag geschuldeten Leistungen einschließlich aller eventuellen Rückgewähransprüche wird Haiger vereinbart.
2. Als Gerichtsstand für alle aus dem Vertrag sich ergebenden Rechtsstreitigkeiten einschließlich Wechsel- und Scheckklagen wird Siegen vereinbart; wir sind auch berechtigt, am Sitz des Bestellers zu klagen.
3. Bei Unwirksamkeit einzelner Bestimmungen des Liefervertrages oder dieser Allgemeinen Verkaufsbedingungen bleiben die übrigen Bestimmungen weiterhin wirksam und verbindlich.
4. Im grenzüberschreitenden Lieferverkehr gilt deutsches Recht. Die Anwendung des Übereinkommens der Vereinten Nationen über Verträge über den internationalen Warenkauf (CISG) ist ausgeschlossen.

Ingersoll Werkzeuge GmbH

CONDITIONS GENERALES DE VENTE

Les présentes conditions générales s'appliquent à toutes commandes, passées par l'acheteur, qui renonce expressément à ses propres Conditions d'achat.

Toutes clauses contraires n'ayant pas fait l'objet d'une acceptation écrite d'Ingersoll France sera inopposable au vendeur.

I - COMMANDES

- I - a) Toute commande d'un montant inférieur à 200 € net H.T. ne sera pas acceptée sans accord préalable d'Ingersoll France.
- I - b) Les offres seront valables pendant 15 jours à compter de la date de l'envoi de l'offre, sauf clause particulière.
- I - c) Pour des fabrications spécifiques, une quantité supérieure ou inférieure de 10 % maximum celles définies contractuellement pourra être livrée conformément aux usages commerciaux pratiqués en l'espèce.
- I - d) Les produits commandés peuvent faire l'objet de conditionnement propre au vendeur, que l'acheteur est tenu de respecter. Dans le cas contraire, Ingersoll France pourra modifier les quantités selon son conditionnement.
- I - e) Toute annulation de commande est soumise à un accord préalable écrit d'Ingersoll France sauf pour les produits de fabrications spécifiques pour lesquels aucune annulation ne pourra être acceptée.

II - LIVRAISON

- II - a) Ingersoll France s'engage à livrer les produits au lieu défini au contrat. Ingersoll France est autorisée à procéder à des livraisons de façon globale ou partielle sauf accord contraire des Parties.
- II - b) Les délais de livraison remis à la commande sont donnés à titre indicatif. Ils sont soumis aux disponibilités d'approvisionnement du vendeur.
- II - c) Les produits voyagent aux risques et périls d'Ingersoll France jusqu'au lieu de livraison convenu où les risques et la responsabilité des produits sont transférés à l'acheteur.
- II - d) Lors de la prise de livraison, il appartient à l'acheteur de vérifier le bon état des produits livrés.
- II - e) En cas de perte ou avarie lors de la livraison, l'acheteur devra:
 - inscrire sur les documents de transports, des réserves claires, précises et complètes,
 - confirmer ces réserves au transporteur par lettre recommandée avec AR dans les 3 jours de la réception conformément à l'article L 133-3 du Code de Commerce,
 - et/ou requérir le cas échéant, la nomination d'un expert judiciaire, ceci conformément aux dispositions de l'article L 133-4 du même code,
 - informer immédiatement Ingersoll France des dommages et avaries constatés.

L'acheteur dispose d'un délai de 48 heures suivant la prise de livraison pour informer Ingersoll France de la non-conformité de celle-ci. A défaut, La commande sera réputée acceptée sans réserve.

III - PRIX

Pour les produits standards, les prix facturés s'entendent unitaires nets hors taxes. Ils sont alignés sur le tarif en vigueur au départ de nos entrepôts et prévalent sur tout document en possession de l'acheteur.

IV - PAIEMENT

- IV - a) Nos factures sont payables à 30 jours fin de mois date de facturation.
- IV - b) Un escompte sera appliqué au taux mensuel indiqué sur la facture pour tout paiement anticipé (avant 30 jours fin de mois).
- IV - c) Le retour des effets acceptés devra s'effectuer dans les huit jours après leur réception. Tout paiement par chèque doit être reçu chez Ingersoll France au plus tard à l'échéance de la facture.
- IV - d) Aucun avis de débit ne pourra être émis unilatéralement par l'acheteur. Toute régularisation éventuelle de litige ne pourra s'effectuer qu'à partir d'un avoir établi par le vendeur.

V - RETARD DE PAIEMENT

- V - a) En cas de retard dans l'exécution de son obligation de paiement, l'acheteur sera, si Ingersoll France l'estime utile, déchu du terme pour tous les paiements à intervenir qui deviendront immédiatement exigibles. Ingersoll France pourra de plein droit procéder à la résolution des ventes réalisées ou à les retarder.
- V - b) Pour tout défaut de paiement à l'échéance définie, un intérêt de retard correspondant à une fois et demi le taux d'intérêt légal, décompté dès le premier jour de retard sera dû à réception d'un courrier de mise en demeure.

VI - RETOUR DES MARCHANDISES

Aucun retour de matériel ne sera accepté sans accord préalable d'Ingersoll France qui se réserve le droit d'appliquer une décote pour les reprises autorisées. De plus, aucun retour en port dû ne sera accepté.

Les produits doivent être dans un parfait état, sans avoir été utilisé, assortis de l'ensemble de leurs accessoires et de leur documentation, et dans leur conditionnement d'origine non altéré.

En cas de non respect des conditions qui précèdent, Ingersoll France aura la faculté de rejeter le retour des produits.

Les produits voyagent aux risques et aux frais de l'acheteur jusqu'au complet déchargement des produits dans les locaux d'Ingersoll.

VII - CLAUSE DE RÉSERVE DE PROPRIÉTÉ

VII - a) La propriété des produits vendus ne sera transférée à l'acheteur qu'après paiement intégral du prix en principal et de tous frais accessoires, mais l'acheteur en devient responsable dès leur livraison telle que stipulée à l'article II.

VII - b) Il est expressément convenu qu'à défaut de paiement de l'une des échéances, la totalité facturée sera immédiatement exigible et à défaut de règlement intégral, Ingersoll France se réserve le droit de récupérer les produits aux frais de l'acheteur.

VIII - LOI APPLICABLE

Les présentes conditions générales de ventes et tout autre acte passé entre Ingersoll France et l'acheteur sont régies par le droit français.

IX - CLAUSE ATTRIBUTIVE DE COMPÉTENCE

Pour toute contestation relative à la validité, l'exécution ou l'interprétation des présentes conditions générales, seul sera compétent le Tribunal de Commerce de Meaux.

Ingersoll France s.a.r.l.



Ingersoll Werkzeuge GmbH is present all over the world – at tool shows and congresses of the milling and machine tool industry as well as at house exhibitions of leading machine tool manufacturers.

To intensify the direct contact to our customers, we organize special seminars and application-specific training courses in our customer centers in Haiger and Horrheim/Germany and Rockford/USA.

Current dates and up-to-date information of our seminars are stated under: www.ingersoll-imc.de and www.ingersoll-imc.com



NOS CLIENTS - INTENSIFIER LES CONTACTS



Ingersoll Werkzeuge GmbH est présent dans le monde entier lors de salons et congrès sur l'industrie du fraisage et de la machine-outil, ainsi qu'aux portes ouvertes des fabricants leader en machines.

Pour assurer les relations directes avec nos clients, nous organisons des séminaires et des formations sur des applications spécifiques dans nos centres techniques de Haiger/Allemagne et Rockford/USA.

Les dates et informations utiles sur nos séminaires sont disponibles sur : www.ingersoll-imc.fr



Ingersoll is a worldwide operating manufacturer of milling, boring, threading and turning tools for demanding machining operations.

Our main production plants in Haiger and Horrheim in Germany as well as Rockford in the United States, supply customers all over the world. Experienced and well-trained representatives in over 45 countries ensure a network of on-site advice and assistance. Ingersoll's complete range of performance and service is available to our customers – all over the world.



Marketing office Haiger (Germany)



Marketing office Rockford (USA)

Ingersoll est un fabricant mondial d'outils coupants destinés aux opérations de fraisage et tournage.

Nos principaux sites de fabrication, à Haiger et à Horrheim en Allemagne ainsi qu'à Rockford aux USA, fournissent nos clients dans le monde entier. Dans plus de 45 pays, nos représentants expérimentés et formés à notre technologie, constituent un réseau d'assistance et de conseils sur site. La gamme complète de produits performants et services Ingersoll est accessible à nos clients partout dans le monde.

Ingersoll Cutting Tools

Marketing- & Technology

Germany / Allemagne

Ingersoll Werkzeuge GmbH

Hauptsitz:

Kalteiche-Ring 21-25
35708 Haiger, Germany
Telefon: +49 (0)2773-742-0
Telefax: +49 (0)2773-742-812/814
E-Mail: info@ingersoll-imc.de
Internet: www.ingersoll-imc.de

USA

Ingersoll Cutting Tools

845 S. Lyford Road
Rockford, Illinois 61108-2749, USA
Telefon: +1-815-387-6600
Telefax: +1-815-387-6968
E-Mail: info@ingersoll-imc.com
Internet: www.ingersoll-imc.com

France

Ingersoll France

21, rue Galilée
F-77420 CHAMPS-sur-MARNE
Telefon: +33 (0) 1 64 68 45 36
Telefax: +33 (0) 1 64 68 45 24
E-Mail: info@ingersoll-imc.fr
Internet: www.ingersoll-imc.fr

