

ISO-Line



APPLITEC
CUTTING TOOLS

Index

Codification

Kodifizierung

Coding guide

S	D	J	C	R	-	12	12	G	-	11
D	C	G	T	-	11	T3	04	-	FN	-

> 9.04

Conseils d'utilisation

Anwendungsempfehlungen

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Géométries de coupe

Spanformgeometrien

Cutting geometries



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Nuances

Sorten

Grades

PVD

CVD

CERMET

> 9.14

Paramètres de coupe indicatifs

Empfohlene Schnittwerte

Standard machining data

P	M	N	S
VC (m/min)		F (mm/U)	

> 9.16

80°

Porte-outils
Halter
Holders



SCM



SCA



SCL



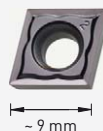
SCL

> 9.20

Plaquettes
WSP
Inserts



~ 6 mm



~ 9 mm

> 9.26

55°

Porte-outils
Halter
Holders



SDN



SDA



SDJ



SDH



SDUCL



SDQ

SDU

> 9.34

Plaquettes
WSP
Inserts



~ 7 mm



~ 11 mm

> 9.45

35°

Porte-outils
Halter
Holders



SVV



SVA



SVJ



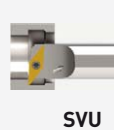
SVX



SV-CL/R



SVUCL



SVU

> 9.53

Plaquettes
WSP
Inserts



~ 11 mm



~ 13 mm



~ 16 mm

> 9.62

Pièces de rechange et accessoires
Ersatzteile und Zubehör
Spare parts and accessories



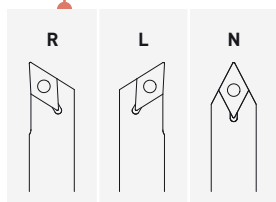
> 9.71

Codification

Kodifizierung

Coding guide

Méthode de serrage Klemmsystem Clamping system	Forme de la plaquette Plattenform Insert shape	Géométrie du porte-outil Halterform Holder geometry	Angle de dépouille de la plaquette WSP-Freiwinkel Insert clearance angle	Direction de coupe Schneidrichtung Cut direction		Hauteur du porte-outil Halter Höhe Holder height	Largeur du porte-outil Halter Breite Holder width	Longueur du porte-outil Halter Länge Holder length		Dimension de la plaquette (L) WSP Grösse (L) Insert size (L)
S	D	J	C	R	-	12	12	G	-	11



C = 7°

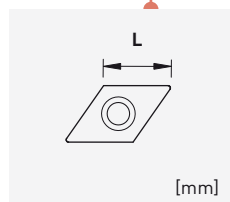


A x B (or Ø) [mm]

08 x 08
10 x 10
12 x 12
12.7 x 12.7 (1/2 in)
16 x 16
20 x 20
Ø: D10 / D20 / D25.4 (Ø1 in)

Length: [mm]

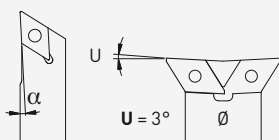
F = 75
G = 90
J = 110
X = Special



[mm]

α:

A = 0°
J = 3°
L = 5°
H = 17.5°
X = 27.5°



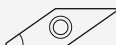
C = 80°



D = 55°



V = 35°



S = vis
Schraube
screw

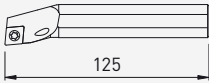


Compatibilité porte-outil - plaquette
WSP - Halter Kompatibilität
Holder - insert compatibility

S	D	J	C	R	-	12	12	G	-	11
D	C	G	T	-	11	T3	04	-	FN	-

Matière Material Material	Diamètre queue Shank Shank	Longueur du porte-outil Holder-Länge Holder length		Méthode de serrage Klemmsystem Clamping system	Forme de la plaquette Plattenform Insert shape	Géométrie du porte-outil Holderform Holder geometry	Angle de dépouille de la plaquette WSP-Freiwinkel Insert clearance angle	Direction de coupe Schneidrichtung Cut direction		Dimension de la plaquette (L) WSP Grösse (L) Insert size (L)
A	12	K	-	S	C	L	C	R	-	06

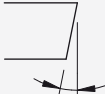
**Longueur
Länge
Length**
F = 80
H = 100
J = 110
K = 125
M = 150
Q = 180



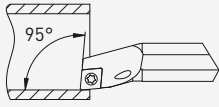
**Ø queue
Schank Ø
Shank Ø**



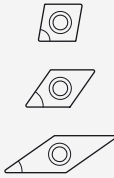
C = 7°



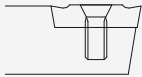
**L = 95°
Q = 107.5°
U = 93°**



**C = 80°
D = 55°
V = 35°**



**vis
Schraube
screw**



**A = acier avec lubrification
Stahl mit Kühlung
Steel with coolant**

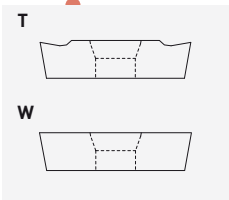
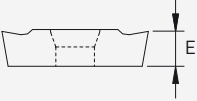
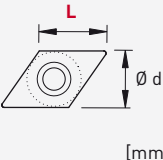
**E = carbure avec lubrification
Hartmetall mit Kühlung
Carbide with coolant**



Codification

Kodifizierung

Coding guide

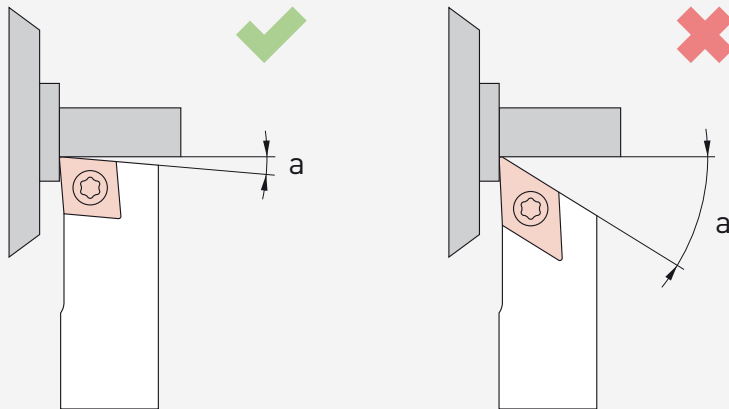
Forme de la plaquette Plattenform Insert shape	Angle de dépouille de la plaquette WSP-Freiwinkel Insert clearance angle	Classe de tolérance Toleranz Klasse Tolerance class	Caractéristiques de fixation Befestigungsmerkmale Clamping features		Dimension de la plaquette (L) WSP Grösse (L) Insert size (L)	Épaisseur de la plaquette (E) WSP Dicke (E) Insert thickness (E)	Rayon de pointe de la plaquette WSP Eckenradius Insert corner radius		Exécution d'arête et direction de coupe Schneidkante Ausführung und Schneidrichtung Edge type and cutting direction		Géométrie de coupe Spanformgeometrie Cutting geometry															
D	C	G	T	-	11	T3	04	-	FN	-	X8															
			R: 003 = 0.03 mm 005 = 0.05 mm 008 = 0.08 mm 01 = 0.1 mm 015 = 0.15 mm 02 = 0.2 mm 04 = 0.4 mm 08 = 0.8 mm 			 cf.: Géométrie de coupe Spanformgeometrie Cutting geometry																				
G = ±0.025 mm  M = ±0.05 mm 			02 = 2.38 mm 03 = 3.18 mm T3 = 3.97 mm 04 = 4.76 mm 			FN  EN  ENP  FL / FR  ELP / ERP 																				
C = 7° 			L  [mm]																							
C = 80°  D = 55°  V = 35° 			<table><tr><th>L</th><th>Ø d [mm]</th></tr><tr><td>CC...06</td><td></td></tr><tr><td>DC...07</td><td>6.350</td></tr><tr><td>VC... 11</td><td></td></tr><tr><td>VC... 13</td><td>7.940</td></tr><tr><td>CC...09</td><td></td></tr><tr><td>DC... 11</td><td>9.525</td></tr><tr><td>VC... 16</td><td></td></tr></table>			L	Ø d [mm]	CC... 06		DC... 07	6.350	VC... 11		VC... 13	7.940	CC... 09		DC... 11	9.525	VC... 16						
L	Ø d [mm]																									
CC... 06																										
DC... 07	6.350																									
VC... 11																										
VC... 13	7.940																									
CC... 09																										
DC... 11	9.525																									
VC... 16																										

Better surface finish

pour un meilleur état de surface et une stabilité d'usinage optimale, choisir une géométrie d'outil permettant un angle "a" le plus petit possible

für bessere Oberflächegüte und optimale Bearbeitungsstabilität, muss die Werkzeuggeometrie mit kleinstmöglichem Winkel "a" ausgewählt werden

for a better surface finish and optimal machining stability, choose a tool geometry with angle "a" as small as possible



Proportion

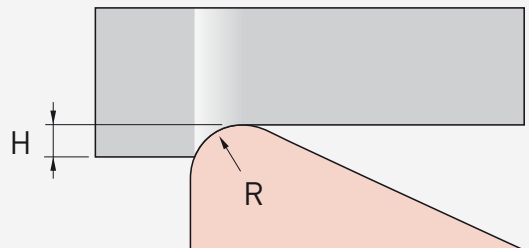
rapport hauteur de passe / rayon d'outil

Verhältnis zwischen Spantiefe und Werkzeugradius

machining depth / tool radius ratio

$$H \text{ min} = 0.7 \times R$$

$$R \text{ max} = 1.4 \times H$$



Plaquettes en métal dur rectifiées

VHM geschliffene WSP

Carbide ground inserts

G

tolerance class

Géométries de coupe

Spanformgeometrien

Cutting geometries

Finishing

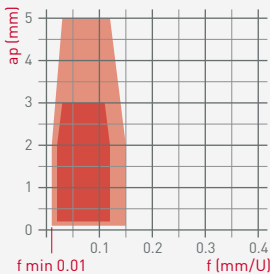
FN-X8




8°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



ap (mm)

f min 0.01 f (mm/U)

P	★★★★★
M	★★★★
N	★★★★
S	★★★

CCGT	DCGT	VCGT
p. 9.26	p. 9.45	p. 9.64

Semi-finishing

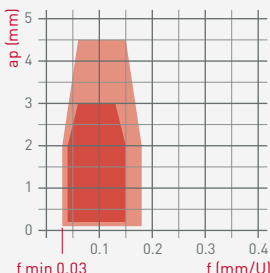
ENP-X8




8°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

Poli
Poliert
Polished



ap (mm)

f min 0.03 f (mm/U)

P	★★★★★
M	★★★
N	★★★
S	★★★

CCGT	DCGT	VCGT
p. 9.26	p. 9.45	p. 9.64

Finishing

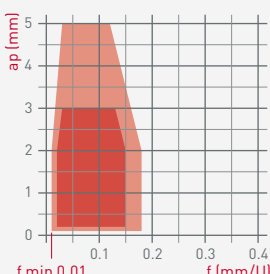
FN-X17




17°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



ap (mm)

f min 0.01 f (mm/U)

P	★★★
M	★★★★★
N	★★★★★
S	★★★★★

CCGT	DCGT	VCGT
p. 9.27	p. 9.46	p. 9.65

Semi-finishing

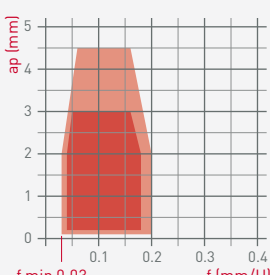
ENP-X17




17°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

Poli
Poliert
Polished



ap (mm)

f min 0.03 f (mm/U)

P	★★★
M	★★★★★
N	★★★
S	★★★★★

CCGT	DCGT	VCGT
p. 9.27	p. 9.46	p. 9.65

Géométries de coupe
Spanformgeometrien
Cutting geometries

G
tolerance class

Plaquettes en métal dur rectifiées
VHM geschliffene WSP
Carbide ground inserts

Finishing

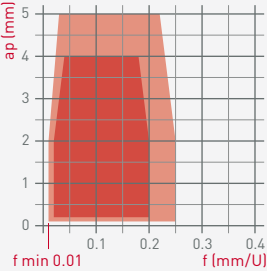
FN-X25



25°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



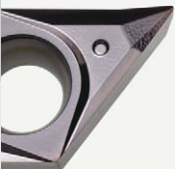
P	
M	★★★
N	★★★★★
S	★★★★★

CCGT DCGT VCGT

p. 9.28 p. 9.47 p. 9.66

Semi-finishing

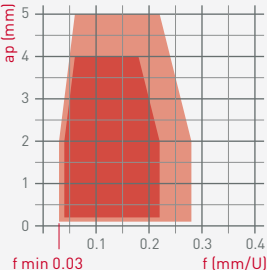
ENP-X25



25°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

Poli
Poliert
Polished



P	
M	★★★
N	★★★★★
S	★★★★★

CCGT DCGT VCGT

p. 9.28 p. 9.47 p. 9.66

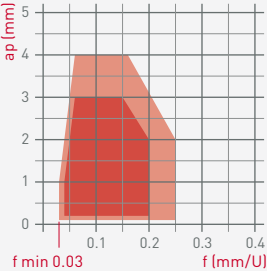
Semi-finishing

ENP-X20



20°

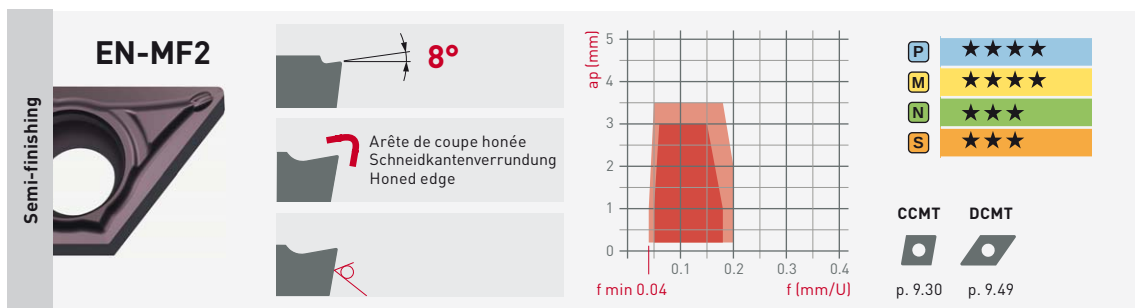
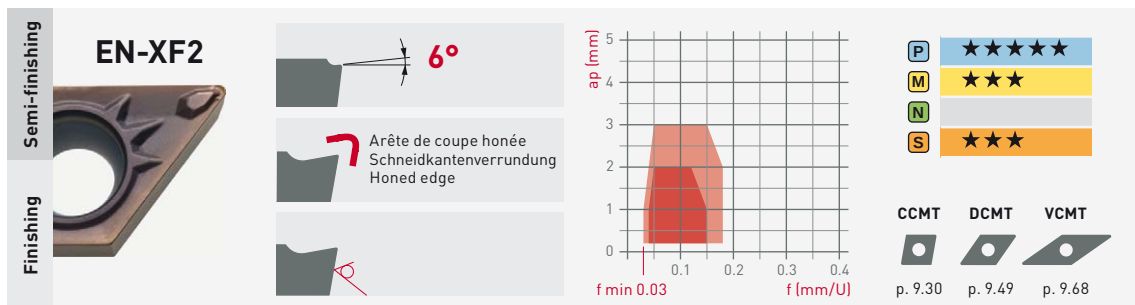
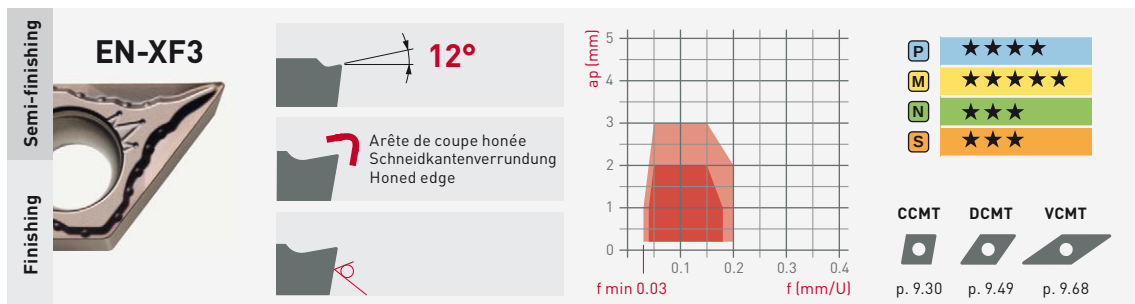
Arête de coupe honée
Schneidkantenverrundung
Honed edge

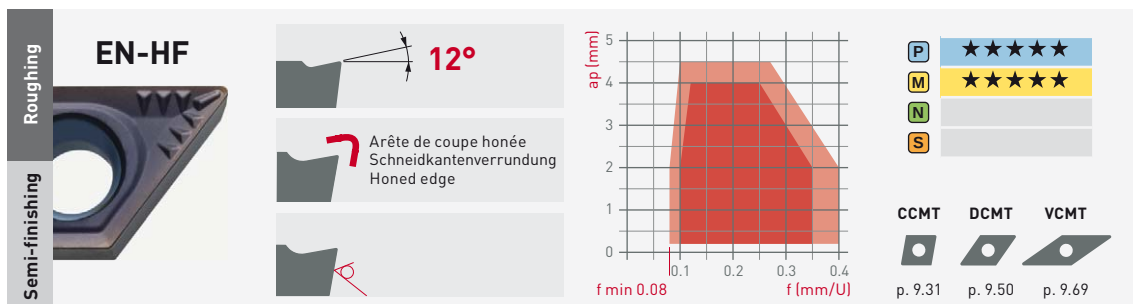
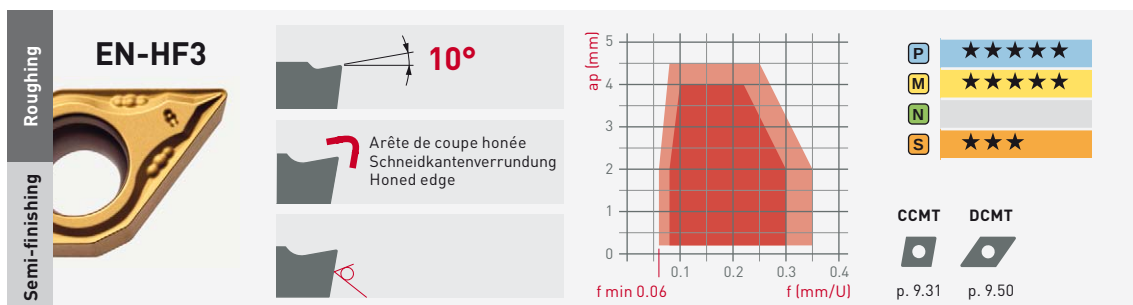
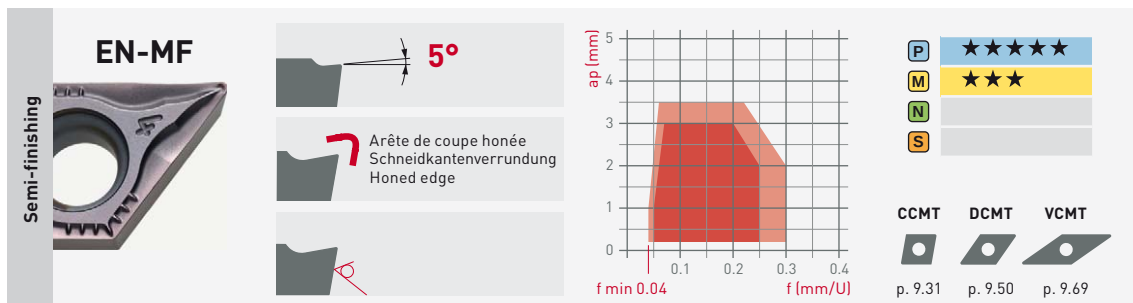


P	
M	★★★★★
N	★★★★★
S	★★★★★

CCGT DCGT VCGT

p. 9.29 p. 9.48 p. 9.67





ISO-Line

Plaquettes en métal dur rectifiées

VHM geschliffene WSP

Carbide ground inserts

G

tolerance class

Géométries de coupe

Spanformgeometrien

Cutting geometries

FL/FR-X10

Super-finishing

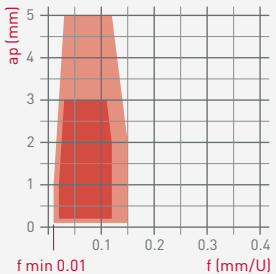
Finishing



10°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



ap (mm)

f min 0.01

f (mm/U)

P	★★★★★
M	★★★★★
N	★★★★★
S	★★★★★

VC6T



p. 9.62

ELP/ERP-X10

Semi-finishing

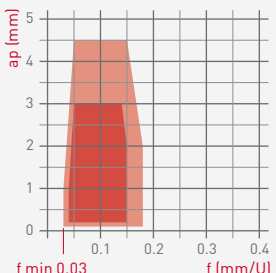
Finishing



10°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

Poli
Poliert
Polished



ap (mm)

f min 0.03

f (mm/U)

P	★★★★★
M	★★★★★
N	★★★★★
S	★★★★★

VC6T



p. 9.62

FN-K18

Super-finishing

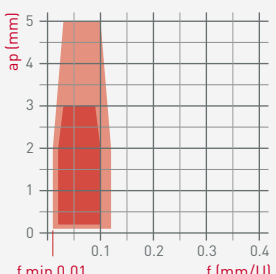
Finishing



18°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



ap (mm)

f min 0.01

f (mm/U)

P	★★★★★
M	★★★★★
N	★★★★★
S	★★★★★

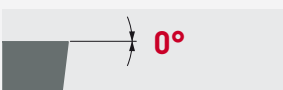
VC6T



p. 9.63

FN-0

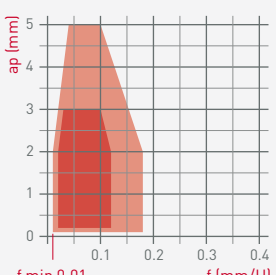
Finishing



0°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



ap (mm)

f min 0.01

f (mm/U)

P	★★★★★
M	★★★★★
N	★★★★★
S	★★★★★

VC6W



p. 9.63

Géométries de coupe

Spanformgeometrien

Cutting geometries

G / M

tolerance class

CERMET

Finishing

FN-X8 CERMET

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished

P	★★★★★
M	★★★
N	
S	

CCGT

p. 9.32

DCGT

p. 9.51

VCGT

p. 9.64

Semi-finishing

ENP-KX CERMET

Arête de coupe honée
Schneidkantenverrundung
Honed edge

P	★★★★★
M	★★★
N	
S	

CCGT

p. 9.32

DCGT

p. 9.51

Semi-finishing

EN-KM CERMET

Arête de coupe honée
Schneidkantenverrundung
Honed edge

P	★★★★★
M	★★★
N	
S	

CCMT

p. 9.33

DCMT

p. 9.52

Nuances

Sorten

Grades

Nuances Sorten Grades	Domaine d'application Anwendungsbereich Application area	Finishing / light machining	Semi-finishing / medium cut	Roughing / heavy machining	Géométries de coupe disponibles Verfügbare Spanformgeometrien Available cutting geometries	Résistance à l'usure Verschleissfestigkeit Wear resistance	Ténacité, résistance à la rupture Zähigkeit, Bruchwiderstand Toughness, crack resistance	Résistance à la température Bearbeitungswarmfestigkeit Machining heat resistance	Revêtement et couleur Beschichtung und Farbe Coating and colour	Recommandations spéciales Sonder Empfehlungen Special recommendations
Carbide + PVD										
TiAlN	★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★	●	●	●	FN/ENP-X8 FN/ENP-X17 FN/ENP-X25 L/R-X10	■■■■■□	■■■■■□	■■■■■□	PVD	
HTA	★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★	●			FN-X8 FN-X17 FN-X25 L/R-X10 FN-K18 FN-0	■■■■■	■■■■■□	■■■■■□	PVD	
TiN	★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★	●	●	●	FN/ENP-X8 FN/ENP-X17 FN/ENP-X25 L/R-X10	■■■■■□	■■■■■□	■■■■■□	PVD	High resistance to edge build up
HTiN	★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★	●			FN-K18 FN-0	■■■■■□	■■■■■□	■■■■■□	PVD	High resistance to edge build up
TAC	★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★	●	●	●	EN-XF3 EN-XF2 EN-MF2 EN-HF	■■■■■□	■■■■■□	■■■■■□	PVD	
HTAC	★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★	●	●		EN-XF3 EN-XF2 EN-MF2	■■■■■	■■■■■□	■■■■■□	PVD	
TiX	★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★			●	EN-HF3	■■■■■□	■■■■■□	■■■■■□	PVD	Easy wear out control with TiN top layer
HTiX	★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★		●	●	ENP-X20 EN-HF3	■■■■■□	■■■■■□	■■■■■□	PVD	Easy wear out control with TiN top layer
Tmax	★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★		●	●	EN-MF EN-HF	■■■■■□	■■■■■□	■■■■■□	PVD	
ZTA	★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★	●	●		ENP-X20	■■■■■□	■■■■■□	■■■■■□	PVD	Perfect for titanium alloys & superalloys
TiAlX	★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★	●	●		X8 R-X10 X17 X25	■■■■■□	■■■■■□	■■■■■□	PVD	Perfect for titanium alloys & superalloys
HTAX	★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★	●			X8 R-X10 X17 X25	■■■■■	■■■■■□	■■■■■□	PVD	Perfect for titanium alloys & superalloys
ST	★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★	●	●		X17 ENP-X17 FL/FR-X10 ELP/ERP-X10	■■■■■□	■■■■■□	■■■■■	PVD	Hard materials >50HRC, refractory materials, nickel- or cobalt-based, stainless steel, titanium alloys
HST	★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★	●	●		X17	■■■■■□	■■■■■□	■■■■■	PVD	Hard materials >50HRC, refractory materials, nickel- or cobalt-based, stainless steel, titanium alloys

Nuances Sorten Grades	Domaine d'application Anwendungsbereich Application area	Finishing / light machining	Semi-finishing / medium cut	Roughing / heavy machining	Géométries de coupe disponibles Verfügbare Spanformgeometrien Available cutting geometries	Résistance à l'usure Verschleissfestigkeit Wear resistance	Ténacité, résistance à la rupture Zähigkeit, Bruchwiderstand Toughness, crack resistance	Résistance à la température Bearbeitungswarmfestigkeit Machining heat resistance	Revêtement et couleur Beschichtung und Farbe Coating and colour	Recommandations spéciales Sonder Empfehlungen Special recommendations
Carbide + CVD										
Ti4	★★★★★ ★★★		●	●	EN-MF EN-HF3 EN-HF	■■■■■□	■■■■■□	■■■■■	CVD	
Ti5	★★★★★ ★★★		●	●	EN-MF2 EN-HF	■■■■■□	■■■■■□	■■■■■	CVD	Easy wear out control with TiN top layer
HTi5	★★★★★ ★★★		●	●	EN-XF2 EN-MF2 EN-HF	■■■■■	■■■□□	■■■■■	CVD	Easy wear out control with TiN top layer
Ti6	★★★ ★★★★★ ★★★★		●	●	EN-HF3	■■■■■□	■■■■■□	■■■■■	CVD	
Ti7	★★★ ★★★★★ ★★★★		●	●	EN-MF	■■■□□	■■■■■□	■■■■■	CVD	titanium alloys, refractory materials, iron-, nickel- or cobalt-based, austenitic stainless steel
Carbide uncoated										
K10	★★★ ★★★	●			FN-X8 FN-X17 FN-X25 ELP-X10/ERP-X10 FN-K18 FN-0	■■■□□	■■■□□	■■□□□	uncoated	
K20	★★ ★★	●			FN/ENP-X8 FN/ENP-X17 FN/ENP-X25 ELP-X10/ERP-X10	■■□□□	■■■□□	■■□□□	uncoated	
CERMET										
CTA	★★★★★ ★★★	●			FN-X8	■■■■■□	■■■■■□	■■■■■	CERMET +PVD	
CT7	★★★★★ ★★★	●	●	●	ENP-KX EN-KM	■■■■■□	■■■■■□	■■■■■	CERMET + PVD	Easy wear out control with TiN top layer
HCT7	★★★★★ ★★★	●	●		ENP-KX EN-KM	■■■■■	■■■□□	■■■■■	CERMET + PVD	Easy wear out control with TiN top layer
CN6	★★★★	●			FN-X8 ENP-KX EN-KM	■■□□□	■■■■■□	■■■■■□	CERMET uncoated	

ISO-Line	G tolerance class	Tough grade, for normal to difficult machining conditions	Wear resistant grade, for finishing and light machining	Acier Stahl Steel						Inox Rostfreistahl Stainless steel			
				Acier de décolletage Automatenstahl Free-cutting steel		Acier faiblement allié Leicht legierter Stahl Low alloyed steel		Acier fortement allié Hochlegierter Stahl High alloyed steel		Austénitique Austenitisch Austenitic		Martensitique Martensitisch Martensitic	
				VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)
				P		M							
FN-X8	K20	HTA		80-180	0.01-0.12	60-150	0.01-0.10	50-120	0.01-0.08	60-140	0.01-0.12	60-140	0.01-0.12
	TiAlX	HTAX		80-180	0.01-0.12	60-150	0.01-0.10	50-120	0.01-0.08	60-140	0.01-0.12	60-140	0.01-0.12
	TiN			80-170	0.01-0.12	60-140	0.01-0.10			60-120	0.01-0.12	60-120	0.01-0.12
	K20	K10											
ENP-X8	TiAlN			80-180	0.03-0.15	60-160	0.03-0.12	50-120	0.03-0.10	60-140	0.03-0.12	60-140	0.03-0.15
	TiN			80-170	0.03-0.15	60-150	0.03-0.12			60-120	0.03-0.12	60-120	0.03-0.15
	K20												
FN-X17	TiAlN			80-180	0.01-0.12	60-150	0.01-0.10			60-140	0.01-0.15	60-140	0.01-0.15
	TiAlX			80-180	0.01-0.12	60-150	0.01-0.10	50-120	0.01-0.08	60-140	0.01-0.12	60-140	0.01-0.12
	ST	HST		80-180	0.01-0.12	60-150	0.01-0.10	50-120	0.01-0.08	60-150	0.01-0.12	60-150	0.01-0.12
	TiN			80-170	0.01-0.12					60-120	0.01-0.15	60-120	0.01-0.15
	K20	K10											
ENP-X17	TiAlN	HTA		80-180	0.03-0.15	60-160	0.03-0.12	50-120	0.03-0.10	60-140	0.03-0.15	60-140	0.03-0.18
	ST			80-180	0.01-0.12	60-150	0.01-0.10	50-120	0.01-0.08	60-150	0.01-0.12	60-150	0.01-0.12
	TiAlX	HTAX		80-180	0.01-0.12	60-150	0.01-0.10	50-120	0.01-0.08	60-140	0.01-0.12	60-140	0.01-0.12
	TiN			80-170	0.03-0.15	60-150	0.03-0.12			60-120	0.01-0.15	60-120	0.03-0.18
	K20	K10											
FN-X25	TiAlN	HTA								60-140	0.01-0.12		
	TiN									60-120	0.01-0.12		
	K20	K10											
ENP-X25	TiAlN									60-140	0.03-0.12	60-140	0.03-0.15
	TiAlX			80-180	0.01-0.12	60-150	0.01-0.10	50-120	0.01-0.08	60-140	0.01-0.12	60-140	0.01-0.12
	TiN									60-120	0.03-0.12	60-120	0.03-0.15
	K20												
ENP-X20	ZTA									60-140	0.03-0.18	60-140	0.03-0.18
		HTiX								60-140	0.03-0.18	60-140	0.03-0.18
G tolerance class Special 35° VC...-11													
FL / FR-X10	TiAlN	HTA		80-180	0.01-0.12	60-150	0.01-0.10	50-120	0.01-0.08	60-140	0.01-0.12	60-140	0.01-0.12
	TiAlX	HTAX		80-180	0.01-0.12	60-150	0.01-0.10	50-120	0.01-0.08	60-140	0.01-0.12	60-140	0.01-0.12
	ST	HST		80-180	0.03-0.15	60-160	0.03-0.12	50-120	0.03-0.10	60-150	0.03-0.12	60-150	0.01-0.12
	TiN			80-170	0.01-0.12	60-140	0.01-0.10			60-120	0.01-0.12	60-120	0.01-0.12
	K20	K10											
ELP/ERP-X10	TiAlN	HTA		80-180	0.03-0.15	60-160	0.03-0.12	50-120	0.03-0.10	60-140	0.03-0.12	60-140	0.03-0.15
	TiAlX	HTAX		80-180	0.03-0.15	60-160	0.03-0.12	50-120	0.03-0.10	60-140	0.03-0.12	60-140	0.03-0.15
	ST			80-180	0.03-0.15	60-160	0.03-0.12	50-120	0.03-0.10	60-150	0.03-0.12	60-150	0.01-0.12
	TiN			80-170	0.03-0.15	60-150	0.03-0.12			60-120	0.03-0.12	60-120	0.03-0.15
	K20	K10											
FN-K18		HTA		80-180	0.01-0.10	60-150	0.01-0.10			60-140	0.01-0.10	60-140	0.01-0.10
		HTiN		80-170	0.01-0.10	60-140	0.01-0.10			60-120	0.01-0.10	60-120	0.01-0.10
		K10											
FN-0		HTA		80-150	0.01-0.10								
		HTiN		80-140	0.01-0.10								
		K10											

Paramètres de coupe indicatifs

Empfohlene Schnittwerte

Standard machining data

N Alliances d'aluminium et non ferreux Aluminium- und Nichteisenlegierungen Aluminium and non-ferrous alloys								S Titane et superalliages Titan und Superlegierungen Titanium and superalloys							
Aluminium		Al-Si		Cuivre Kupfer Copper		Laiton & bronze Messing & Bronze Brass & bronze		Ti grade 1 - 3		Ti grade 4 - 6		Superalliages Superlegierungen Superalloys			
VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)
		150-1600	0.01-0.15	80-300	0.01-0.12	100-400	0.01-0.15			30-60	0.01-0.12	40-70	0.01-0.10		
								30-70	0.01-0.12	30-60	0.01-0.12	40-70	0.01-0.10		
120-2200	0.01-0.18	150-1600	0.01-0.15	80-300	0.01-0.12	100-400	0.01-0.15								
120-2000	0.01-0.18	150-1500	0.01-0.15	80-250	0.01-0.12	100-300	0.01-0.15	30-70	0.01-0.12						
		150-800	0.03-0.18	80-300	0.03-0.15					30-60	0.03-0.12	40-70	0.03-0.10		
		150-800	0.03-0.18	80-300	0.03-0.15										
		150-800	0.03-0.18	80-250	0.03-0.15										
		150-1600	0.01-0.18	80-300	0.01-0.15	100-400	0.01-0.18			30-70	0.01-0.15	40-80	0.01-0.12		
								30-70	0.01-0.12	30-60	0.01-0.12	40-70	0.01-0.10		
										40-80	0.01-0.08	40-80	0.01-0.08		
120-2200	0.01-0.25	150-1600	0.01-0.18	80-300	0.01-0.15	100-400	0.01-0.18								
120-2000	0.01-0.25	150-1500	0.01-0.18	80-250	0.01-0.15	100-300	0.01-0.18	40-80	0.01-0.15						
		150-800	0.03-0.20	80-300	0.03-0.18					30-70	0.03-0.15	40-80	0.03-0.12		
										40-80	0.01-0.08	40-80	0.01-0.08		
		150-800	0.03-0.20	80-300	0.03-0.18			30-70	0.01-0.12	30-60	0.01-0.12	40-70	0.01-0.10		
		150-800	0.03-0.20	80-250	0.03-0.18										
		150-1600	0.01-0.22	80-300	0.01-0.18					30-60	0.01-0.12	40-70	0.01-0.10		
120-2200	0.01-0.30	150-1600	0.01-0.22	80-300	0.01-0.18										
120-2000	0.01-0.30	150-1500	0.01-0.22	80-250	0.01-0.18			30-70	0.01-0.12						
		150-800	0.03-0.25	80-300	0.03-0.20					30-60	0.03-0.12	40-70	0.03-0.10		
								30-70	0.01-0.12	30-60	0.01-0.12	40-70	0.01-0.10		
		150-800	0.03-0.25	80-300	0.03-0.20										
		150-800	0.03-0.25	80-250	0.03-0.20										
		150-800	0.03-0.25	80-300	0.03-0.20					40-90	0.03-0.15	40-100	0.03-0.15		
		150-800	0.03-0.25	80-300	0.03-0.20					40-80	0.03-0.15	40-90	0.03-0.15		
		150-1600	0.01-0.18	80-300	0.01-0.15	100-400	0.01-0.18			30-60	0.01-0.12	40-70	0.01-0.10		
								30-70	0.01-0.12	30-60	0.01-0.12	40-70	0.01-0.10		
										40-80	0.01-0.08	40-80	0.01-0.08		
120-2200	0.01-0.20	150-1600	0.01-0.18	80-300	0.01-0.15	100-400	0.01-0.18								
120-2000	0.01-0.20	150-1500	0.01-0.18	80-250	0.01-0.15	100-300	0.01-0.18	30-70	0.01-0.12						
		150-1600	0.03-0.20	80-300	0.03-0.18					30-60	0.03-0.12	40-70	0.03-0.10		
										30-60	0.03-0.12	40-70	0.03-0.10		
										40-80	0.01-0.08	40-80	0.01-0.08		
		150-1600	0.03-0.20	80-300	0.01-0.18										
		150-1500	0.03-0.20	80-250	0.01-0.18										
		150-1600	0.01-0.12	80-300	0.01-0.10					30-70	0.01-0.10	40-80	0.01-0.10		
120-2200	0.01-0.15	150-1600	0.01-0.12	80-300	0.01-0.10										
120-2000	0.01-0.15	150-1500	0.01-0.12	80-250	0.01-0.10			40-80	0.01-0.10						
						100-400	0.01-0.18								
						100-400	0.01-0.18								
						100-300	0.01-0.18								

ISO-Line

Paramètres de coupe indicatifs

Empfohlene Schnittwerte
Standard machining data

★★★★★

★★★★

★★★

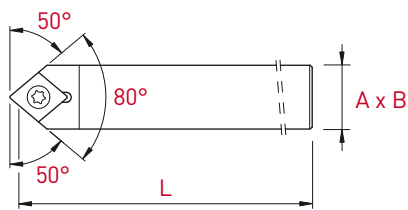
ISO-Line	M tolerance class	Tough grade, for normal to difficult machining conditions	Wear resistant grade, for finishing and light machining	Acier Stahl Steel						Inox Rostfreistahl Stainless steel			
				Acier de décolletage Automatenstahl Free-cutting steel		Acier faiblement allié Leicht legierter Stahl Low alloyed steel		Acier fortement allié Hochlegierter Stahl High alloyed steel		Austénitique Austenitisch Austenitic		Martensitique Martensitisch Martensitic	
				VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)
EN-XF3		TAC	HTAC	100-200	0.03-0.15	80-160	0.03-0.12	50-120	0.03-0.10	60-140	0.03-0.12	60-140	0.03-0.15
EN-XF2		TAC	HTAC	100-200	0.03-0.15	80-160	0.03-0.12	50-120	0.03-0.10	60-140	0.03-0.12	60-140	0.03-0.15
			HTi5	100-250	0.03-0.15	80-220	0.03-0.12	50-180	0.03-0.10	80-200	0.03-0.12	80-200	0.03-0.15
EN-MF2		TAC	HTAC	100-200	0.04-0.15	80-160	0.04-0.12	50-120	0.04-0.10	60-140	0.04-0.12	60-140	0.04-0.15
			HTi5	100-250	0.04-0.15	80-220	0.04-0.12	50-180	0.04-0.10	80-200	0.04-0.12	80-200	0.04-0.15
EN-MF		Tmax		100-220	0.04-0.30	80-180	0.04-0.25	50-150	0.04-0.20	60-150	0.04-0.25	60-150	0.04-0.25
		Ti4		100-250	0.05-0.30	80-220	0.05-0.25	50-180	0.05-0.20	80-200	0.05-0.25	80-200	0.05-0.25
		Ti7								60-150	0.05-0.20	60-150	0.05-0.20
EN-HF3		TiX	HTiX	100-220	0.06-0.35	80-180	0.06-0.30	50-150	0.06-0.25	60-150	0.06-0.25	60-150	0.06-0.25
			Ti6	100-250	0.06-0.35	80-220	0.06-0.30	50-180	0.06-0.25	80-200	0.06-0.25	80-200	0.06-0.25
EN-HF		Tmax		100-220	0.08-0.40	80-180	0.08-0.35	50-150	0.08-0.30	60-150	0.08-0.30	60-150	0.08-0.30
		TAC		100-200	0.08-0.40	80-160	0.08-0.35	50-140	0.08-0.30	60-140	0.08-0.30	60-140	0.08-0.30
		Ti4		100-250	0.08-0.40	80-220	0.08-0.35	50-180	0.08-0.30	80-200	0.08-0.30	80-200	0.08-0.30
		Ti5	HTi5	100-280	0.08-0.40	80-250	0.08-0.35	50-200	0.08-0.30	80-220	0.08-0.30	80-220	0.08-0.30

ISO-Line CERMET		CTA											
				100-350	0.01-0.12	80-300	0.01-0.10	70-250	0.01-0.08	80-250	0.01-0.12	80-250	0.01-0.12
FN-X8 CERMET		CN6		100-300	0.01-0.12	80-250	0.01-0.10	70-200	0.01-0.08				
ENP-KX CERMET		CT7	HCT7	100-350	0.03-0.20	80-300	0.03-0.18	70-250	0.03-0.15	80-250	0.03-0.18	80-250	0.03-0.18
		CN6		100-300	0.03-0.20	80-250	0.03-0.18	70-200	0.03-0.15				
EN-KM CERMET		CT7	HCT7	100-350	0.03-0.25	80-300	0.03-0.20	70-250	0.03-0.18	80-250	0.03-0.20	80-250	0.03-0.20
		CN6		100-300	0.03-0.25	80-250	0.03-0.20	70-200	0.03-0.18				

9.19



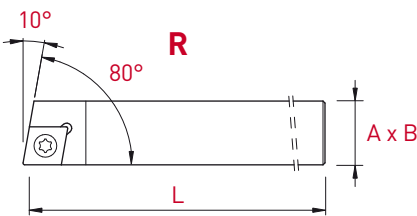
SCM



Plaquettes WSP Inserts	A x B	L	Art. N°
CC...-0602..	8 x 8	115	SCMCN-0808X-06
	10 x 10	115	SCMCN-1010X-06
	12 x 12	130	SCMCN-1212X-06
	12 x 12	90	SCMCN-1212G-06
	12.7 x 12.7	130	SCMCN-12.7X-06
	16 x 16	130	SCMCN-1616X-06
	16 x 16	75	SCMCN-1616F-06
CC...-09T3..	12 x 12	130	SCMCN-1212X-09
	12 x 12	90	SCMCN-1212G-09
	12.7 x 12.7	130	SCMCN-12.7X-09
	16 x 16	130	SCMCN-1616X-09
	16 x 16	75	SCMCN-1616F-09
	20 x 20	120	SCMCN-2020X-09



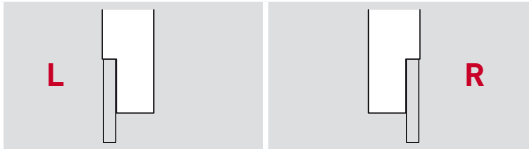
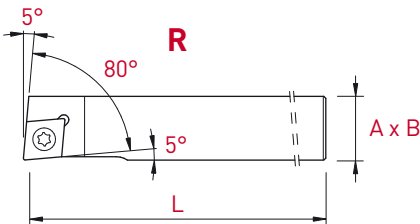
SCA



Plaquettes WSP Inserts	A x B	L	Art. N°	Art. N°
CC..-0602..	8 x 8	115	SCACL-0808X-06	SCACR-0808X-06
	10 x 10	115	SCACL-1010X-06	SCACR-1010X-06
	12 x 12	130	SCACL-1212X-06	SCACR-1212X-06
	12 x 12	90	SCACL-1212G-06	SCACR-1212G-06
	12.7 x 12.7	130	SCACL-12.7X-06	SCACR-12.7X-06
	16 x 16	130	SCACL-1616X-06	SCACR-1616X-06
	16 x 16	75	SCACL-1616F-06	SCACR-1616F-06
CC..-09T3..	12 x 12	130	SCACL-1212X-09	SCACR-1212X-09
	12 x 12	90	SCACL-1212G-09	SCACR-1212G-09
	12.7 x 12.7	130	SCACL-12.7X-09	SCACR-12.7X-09
	16 x 16	130	SCACL-1616X-09	SCACR-1616X-09
	16 x 16	75	SCACL-1616F-09	SCACR-1616F-09
	20 x 20	120	SCACL-2020X-09	SCACR-2020X-09



SCL



Plaquettes WSP Inserts	A x B	L	Art. N°	Art. N°
CC...-0602..	8 x 8	115	SCLCL-0808X-06	SCLCR-0808X-06
	10 x 10	115	SCLCL-1010X-06	SCLCR-1010X-06
	12 x 12	130	SCLCL-1212X-06	SCLCR-1212X-06
	12 x 12	90	SCLCL-1212G-06	SCLCR-1212G-06
	12.7 x 12.7	130	SCLCL-12.7X-06	SCLCR-12.7X-06
	16 x 16	130	SCLCL-1616X-06	SCLCR-1616X-06
	16 x 16	75	SCLCL-1616F-06	SCLCR-1616F-06
CC...-09T3..	12 x 12	130	SCLCL-1212X-09	SCLCR-1212X-09
	12 x 12	90	SCLCL-1212G-09	SCLCR-1212G-09
	12.7 x 12.7	130	SCLCL-12.7X-09	SCLCR-12.7X-09
	16 x 16	130	SCLCL-1616X-09	SCLCR-1616X-09
	16 x 16	75	SCLCL-1616F-09	SCLCR-1616F-09
	20 x 20	120	SCLCL-2020X-09	SCLCR-2020X-09

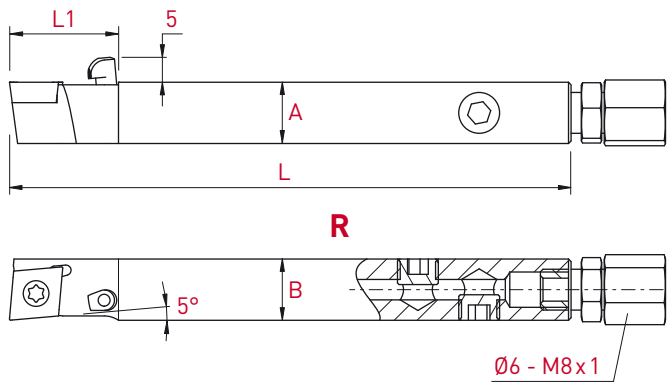
Porte-outils avec arrosage intégré
Halter mit integrierter Kühlmittelzufuhr
Holders with integrated coolant supply

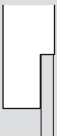
80°

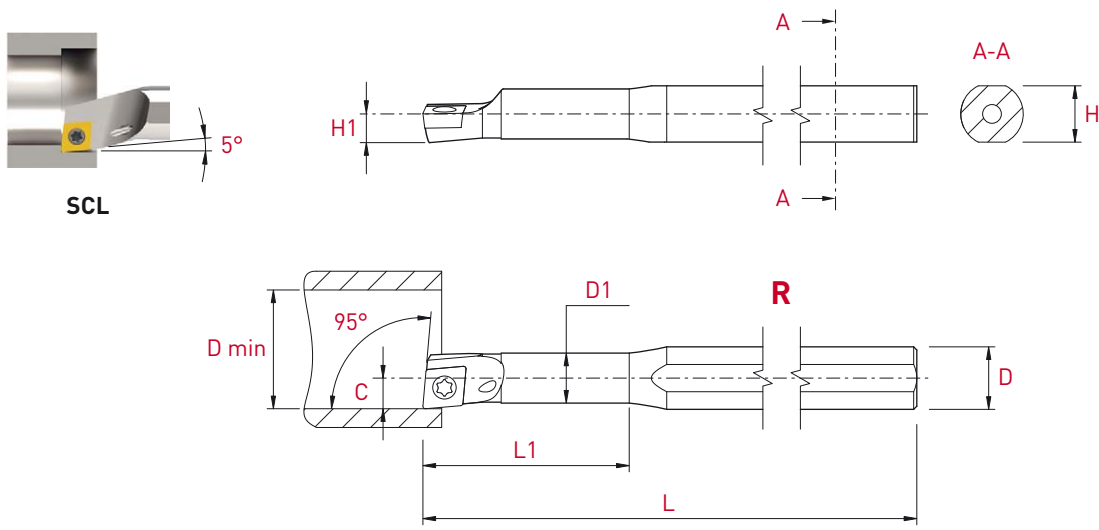
SCL-JET

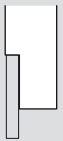


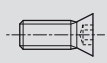
SCL

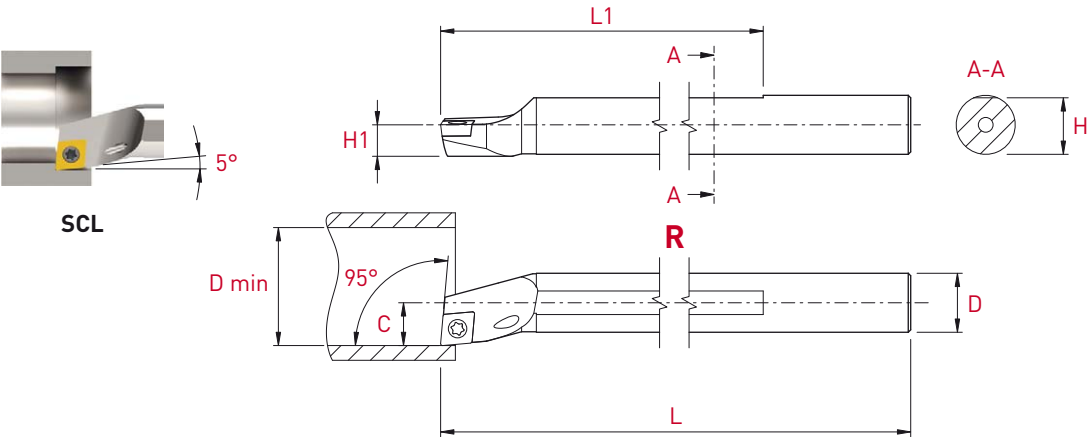


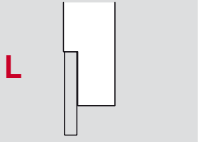
					
Plaquettes WSP Inserts	A x B	L	L1	Art. N°	Art. N°
CC...-0602..	10 x 10	110	21	SCLCL-1010J-06-JET	SCLCR-1010J-06-JET
	12 x 12	110	21	SCLCL-1212J-06-JET	SCLCR-1212J-06-JET
	12.7 x 12.7	110	21	SCLCL-12.7J-06-JET	SCLCR-12.7J-06-JET
	16 x 16	110	21	SCLCL-1616J-06-JET	SCLCR-1616J-06-JET
CC...-09T3..	12 x 12	110	21	SCLCL-1212J-09-JET	SCLCR-1212J-09-JET
	12.7 x 12.7	110	21	SCLCL-12.7J-09-JET	SCLCR-12.7J-09-JET
	16 x 16	110	21	SCLCL-1616J-09-JET	SCLCR-1616J-09-JET
	20 x 20	110	21	SCLCL-2020J-09-JET	SCLCR-2020J-09-JET



Acier / Stahl / Steel										
Plaquettes WSP Inserts	D	D min	D1	C	H1	L	L1	H		
CC...-0602..	8	8	6	4	4	100	25	7	A0608H-SCLCL-06	A0608H-SCLCR-06
	10	12	8	6	5	110	32	9	A0810J-SCLCL-06	A0810J-SCLCR-06
	12	14	10	7	6	125	38	11	A1012K-SCLCL-06	A1012K-SCLCR-06

Pour barres d'alésage Für Borstange For boring bar	Pièces de rechange Ersatzteile Spare parts	Options
		
	Art. N°	Art. N°
A0608H_ / A0810J_	V-M2.5X4.8-T8	C-T8
A1012K_	V-M2.5X5.8-T8	



Acier / Stahl / Steel									
Plaquettes WSP Inserts	D	D min	C	H1	L	L1	H	Art. N°	Art. N°
CC...-0602	8	11	5	4	80	74	7.5	A08F-SCLCL-06	A08F-SCLCR-06
	10	13	7	5	100	85	9.5	A10H-SCLCL-06	A10H-SCLCR-06
	12	16	9	6	125	95	11.5	A12K-SCLCL-06	A12K-SCLCR-06
CC...-09T3	16	20	11	8	150	117	15.5	A16M-SCLCL-09	A16M-SCLCR-09

Carbure de tungstène / Hartmetall / Solid carbide									
	D	D min	C	H1	L	L1	H	Art. N°	Art. N°
CC...-0602	8	9	5	4	125	-	7.5	E08K-SCLCL-06	E08K-SCLCR-06
	10	11	6	5	125	-	9.5	E10K-SCLCL-06	E10K-SCLCR-06
	12	13	8	6	150	-	11.5	E12M-SCLCL-06	E12M-SCLCR-06

	Pièces de rechange Ersatzteile Spare parts	Options
Pour barres d'alésage Für Borstange For boring bar		
	Art. N°	Art. N°
A08F_ / E08K_	V-M2.5X4.8-T8	C-T8
A10H_ / E10H_	V-M2.5X5.8-T8	C-T8
A16M_	V-M3.5X7.2-T15-ISO	C-T15

CCGT
FN-X8

R	Art. N°	PVD			non revêtu unbeschichtet uncoated	
		TiAlN	TiN	HTA	K20	K10
0.05	CCGT-0602005-FN-X8	●	●	●	●	●
0.1	CCGT-060201-FN-X8	●	●	●	●	●
0.2	CCGT-060202-FN-X8	●	●	●	●	●
0.4	CCGT-060204-FN-X8	●	●	●	●	●
0.05	CCGT-09T3005-FN-X8	●	●	●	●	●
0.1	CCGT-09T301-FN-X8	●	●	●	●	●
0.2	CCGT-09T302-FN-X8	●	●	●	●	●
0.4	CCGT-09T304-FN-X8	●	●	●	●	●

CCGT
ENP-X8

R	Art. N°	PVD		non revêtu unbeschichtet uncoated
		TiAlN	TiN	K20
0.05	CCGT-0602005-ENP-X8	●	●	●
0.1	CCGT-060201-ENP-X8	●	●	●
0.2	CCGT-060202-ENP-X8	●	●	●
0.4	CCGT-060204-ENP-X8	●	●	●
0.05	CCGT-09T3005-ENP-X8	●	●	●
0.1	CCGT-09T301-ENP-X8	●	●	●
0.2	CCGT-09T302-ENP-X8	●	●	●
0.4	CCGT-09T304-ENP-X8	●	●	●

Plaquettes en métal dur

VHM-Wendeplatten

Solid carbide inserts

80°

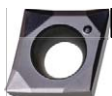
CCGT-X17

CCGT
FN-X17

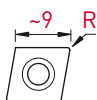
R	Art. N°	PVD					non revêtu unbeschichtet uncoated	
		ST	TiAlN	TiN	HST	HTA	K20	K10
	0.05	•	•	•	•	•	•	•
	0.1	•	•	•	•	•	•	•
	0.2	•	•	•	•	•	•	•
	0.4	•	•	•	•	•	•	•
	0.05	•	•	•	•	•	•	•
	0.1	•	•	•	•	•	•	•
	0.2	•	•	•	•	•	•	•
	0.4	•	•	•	•	•	•	•
	0.8	•	•	•	•	•	•	•

CCGT
ENP-X17

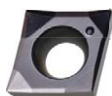
R	Art. N°	PVD			non revêtu unbeschichtet uncoated
		ST	TiAlN	TiN	
	0.05	•	•	•	•
	0.1	•	•	•	•
	0.2	•	•	•	•
	0.4	•	•	•	•
	0.05	•	•	•	•
	0.1	•	•	•	•
	0.2	•	•	•	•
	0.4	•	•	•	•
	0.8	•	•	•	•



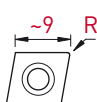
CCGT FN-X25



R	Art. N°	PVD			non revêtu unbeschichtet uncoated	
		TiAlN	TiN	HTA	K20	K10
0.05	CCGT-0602005-FN-X25	•	•	•	•	•
0.1	CCGT-060201-FN-X25	•	•	•	•	•
0.2	CCGT-060202-FN-X25	•	•	•	•	•
0.4	CCGT-060204-FN-X25	•	•	•	•	•
0.05	CCGT-09T3005-FN-X25	•	•	•	•	•
0.1	CCGT-09T301-FN-X25	•	•	•	•	•
0.2	CCGT-09T302-FN-X25	•	•	•	•	•
0.4	CCGT-09T304-FN-X25	•	•	•	•	•
0.8	CCGT-09T308-FN-X25	•	•	•	•	•



CCGT ENP-X25



R	Art. N°	PVD		non revêtu unbeschichtet uncoated
		TiAlN	TiN	
0.05	CCGT-0602005-ENP-X25	•	•	•
0.1	CCGT-060201-ENP-X25	•	•	•
0.2	CCGT-060202-ENP-X25	•	•	•
0.4	CCGT-060204-ENP-X25	•	•	•
0.05	CCGT-09T3005-ENP-X25	•	•	•
0.1	CCGT-09T301-ENP-X25	•	•	•
0.2	CCGT-09T302-ENP-X25	•	•	•
0.4	CCGT-09T304-ENP-X25	•	•	•
0.8	CCGT-09T308-ENP-X25	•	•	•

Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

80°

CCGT-X20

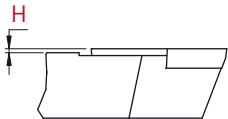


CCGT
ENP-X20

PVD	
☐	☐
☒ M	☒ M
☒ N	☒ N
☒ S	☒ S
ZTA	HTIX



R	H	Art. N°	ZTA	HTIX
0.1	0.2	CCGT-060201-ENP-X20	•	
0.2	0.2	CCGT-060202-ENP-X20	•	•
0.4	0.2	CCGT-060204-ENP-X20	•	•
0.1	0.25	CCGT-09T301-ENP-X20	•	
0.2	0.25	CCGT-09T302-ENP-X20	•	•
0.4	0.25	CCGT-09T304-ENP-X20	•	•
0.8	0.25	CCGT-09T308-ENP-X20	•	•



CCMT-XF3 / CCMT-XF2

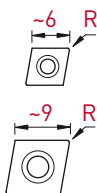
CCMT-MF2

80°

Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts



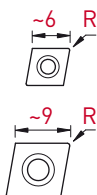
CCMT EN-XF3



R	Art. N°	PVD	
		TAC	HTAC
0.1	CCMT-060201-EN-XF3	●	●
0.2	CCMT-060202-EN-XF3	●	●
0.4	CCMT-060204-EN-XF3	●	●
0.1	CCMT-09T301-EN-XF3	●	●
0.2	CCMT-09T302-EN-XF3	●	●
0.4	CCMT-09T304-EN-XF3	●	●



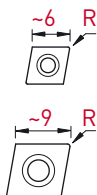
CCMT EN-XF2



R	Art. N°	PVD		CVD
		TAC	HTAC	HTi5
0.2	CCMT-060202-EN-XF2	●	●	●
0.4	CCMT-060204-EN-XF2	●	●	●
0.2	CCMT-09T302-EN-XF2	●	●	●
0.4	CCMT-09T304-EN-XF2	●	●	●



CCMT EN-MF2



R	Art. N°	PVD		CVD	
		TAC	HTAC	Ti5	HTi5
0.2	CCMT-060202-EN-MF2	●	●	●	●
0.4	CCMT-060204-EN-MF2	●	●	●	●
0.2	CCMT-09T302-EN-MF2	●	●	●	●
0.4	CCMT-09T304-EN-MF2	●	●	●	●
0.8	CCMT-09T308-EN-MF2	●	●	●	●

Plaquettes en métal dur

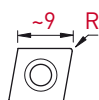
VHM-Wendeplatten

Solid carbide inserts

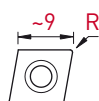
80°

CCMT-MF / CCMT-HF3

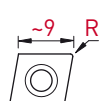
CCMT-HF

**CCMT
EN-MF**

R	Art. N°	PVD		CVD	
		☐ P ☐ M ☐	☐ P ☐ M ☐	☐ P ☐ M ☐ S	☐ P ☐ M ☐
		Tmax		Ti4	Ti7
0.2	CCMT-060202-EN-MF	•		•	•
0.4	CCMT-060204-EN-MF	•		•	•
0.2	CCMT-09T302-EN-MF	•		•	•
0.4	CCMT-09T304-EN-MF	•		•	•

**CCMT
EN-HF3**

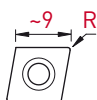
R	Art. N°	PVD		CVD	
		☐ P ☐ M ☐	☐ P ☐ M ☐	☐ P ☐ M ☐ S	☐ P ☐ M ☐
		TiX	HTiX	Ti6	
0.2	CCMT-060202-EN-HF3	•	•	•	
0.4	CCMT-060204-EN-HF3	•	•	•	
0.2	CCMT-09T302-EN-HF3	•	•	•	
0.4	CCMT-09T304-EN-HF3	•	•	•	
0.8	CCMT-09T308-EN-HF3	•	•	•	

**CCMT
EN-HF**

R	Art. N°	PVD		CVD		
		☐ P ☐ M ☐	☐ P ☐ M ☐	☐ P ☐ M ☐	☐ P ☐ M ☐	☐ P ☐ M ☐
		Tmax	TAC	Ti4	Ti5	HTi5
0.2	CCMT-060202-EN-HF		•		•	•
0.4	CCMT-060204-EN-HF	•	•	•	•	•
0.8	CCMT-060208-EN-HF	•	•	•	•	•
0.2	CCMT-09T302-EN-HF		•		•	•
0.4	CCMT-09T304-EN-HF	•	•	•	•	•
0.8	CCMT-09T308-EN-HF	•	•	•	•	•

**CCGT
FN-X8**

CERMET			
PVD		non revêtu unbeschichtet uncoated	
☒ P	☒ M	☒ P	☐
☐	☐	☐	☐
CTA		CN6	
0.05	CCGT-0602005-FN-X8	•	•
0.1	CCGT-060201-FN-X8	•	•
0.2	CCGT-060202-FN-X8	•	•



R	Art. N°
0.05	CCGT-0602005-FN-X8
0.1	CCGT-060201-FN-X8
0.2	CCGT-060202-FN-X8

**CCGT
ENP-KX**

CERMET			
PVD		non revêtu unbeschichtet uncoated	
☒ P	☒ M	☒ P	☐
☐	☐	☐	☐
CT7	HCT7	CN6	
0.1	CCGT-060201-ENP-KX	•	•
0.2	CCGT-060202-ENP-KX	•	•
0.4	CCGT-060204-ENP-KX	•	•



R	Art. N°
0.1	CCGT-060201-ENP-KX
0.2	CCGT-060202-ENP-KX
0.4	CCGT-060204-ENP-KX

Plaquettes CERMET
CERMET-Wendeplatten
CERMET inserts

80°

CCMT-KM



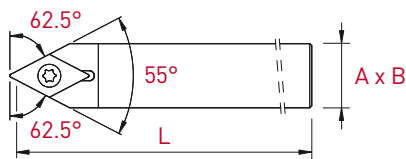
CCMT
EN-KM



R	Art. N°	CERMET		
		PVD		non revêtu unbeschichtet uncoated
		P M	P M	P
		CT7	HCT7	CN6
0.2	CCMT-060202-EN-KM	•	•	•
0.4	CCMT-060204-EN-KM	•	•	•
0.2	CCMT-09T302-EN-KM	•	•	•
0.4	CCMT-09T304-EN-KM	•	•	•
0.8	CCMT-09T308-EN-KM	•	•	•



SDN



Plaquettes WSP Inserts	A x B	L	Art. N°
DC...-0702..	8 x 8	115	SDNCN-0808X-07
	10 x 10	115	SDNCN-1010X-07
	12 x 12	130	SDNCN-1212X-07
	12 x 12	90	SDNCN-1212G-07
	12.7 x 12.7	130	SDNCN-12.7X-07
	16 x 16	130	SDNCN-1616X-07
	16 x 16	75	SDNCN-1616F-07
DC...-11T3..	12 x 12	130	SDNCN-1212X-11
	12 x 12	90	SDNCN-1212G-11
	12.7 x 12.7	130	SDNCN-12.7X-11
	16 x 16	130	SDNCN-1616X-11
	16 x 16	75	SDNCN-1616F-11
	20 x 20	120	SDNCN-2020X-11

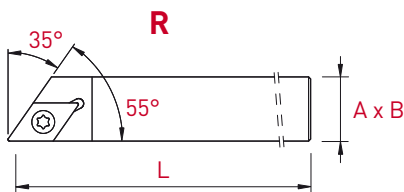
Porte-outils
Halter
Holders

55°

SDA



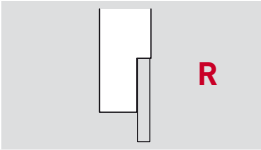
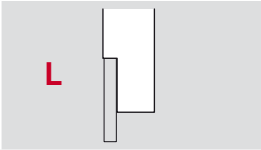
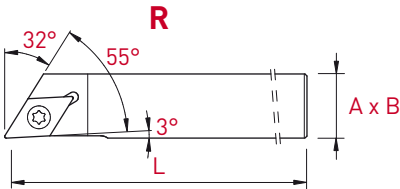
SDA



Plaquettes WSP Inserts	A x B	L	Art. N°	Art. N°
DC...-0702..	8 x 8	115	SDACL-0808X-07	SDACR-0808X-07
	10 x 10	115	SDACL-1010X-07	SDACR-1010X-07
	12 x 12	130	SDACL-1212X-07	SDACR-1212X-07
	12 x 12	90	SDACL-1212G-07	SDACR-1212G-07
	12.7 x 12.7	130	SDACL-12.7X-07	SDACR-12.7X-07
	16 x 16	130	SDACL-1616X-07	SDACR-1616X-07
	16 x 16	75	SDACL-1616F-07	SDACR-1616F-07
DC...-11T3..	12 x 12	130	SDACL-1212X-11	SDACR-1212X-11
	12 x 12	90	SDACL-1212G-11	SDACR-1212G-11
	12.7 x 12.7	130	SDACL-12.7X-11	SDACR-12.7X-11
	16 x 16	130	SDACL-1616X-11	SDACR-1616X-11
	16 x 16	75	SDACL-1616F-11	SDACR-1616F-11
	20 x 20	120	SDACL-2020X-11	SDACR-2020X-11



SDJ



Plaquettes WSP Inserts	A x B	L	Art. N°	Art. N°
DC...-0702..	8 x 8	115	SDJCL-0808X-07	SDJCR-0808X-07
	10 x 10	115	SDJCL-1010X-07	SDJCR-1010X-07
	12 x 12	130	SDJCL-1212X-07	SDJCR-1212X-07
	12 x 12	90	SDJCL-1212G-07	SDJCR-1212G-07
	12.7 x 12.7	130	SDJCL-12.7X-07	SDJCR-12.7X-07
	16 x 16	130	SDJCL-1616X-07	SDJCR-1616X-07
	16 x 16	75	SDJCL-1616F-07	SDJCR-1616F-07
	20 x 20	120	SDJCL-2020X-07	SDJCR-2020X-07
DC...-11T3..	12 x 12	130	SDJCL-1212X-11	SDJCR-1212X-11
	12 x 12	90	SDJCL-1212G-11	SDJCR-1212G-11
	12.7 x 12.7	130	SDJCL-12.7X-11	SDJCR-12.7X-11
	16 x 16	130	SDJCL-1616X-11	SDJCR-1616X-11
	16 x 16	75	SDJCL-1616F-11	SDJCR-1616F-11
	20 x 20	120	SDJCL-2020X-11	SDJCR-2020X-11

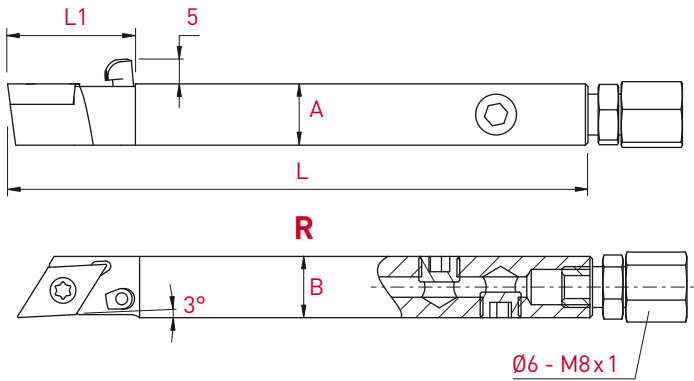
Porte-outils avec arrosage intégré
Halter mit integrierter Kühlmittelzufuhr
Holders with integrated coolant supply

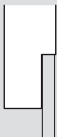
55°

SDJ-JET



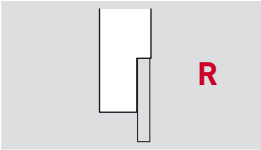
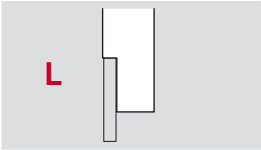
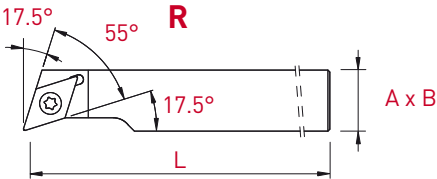
SDJ



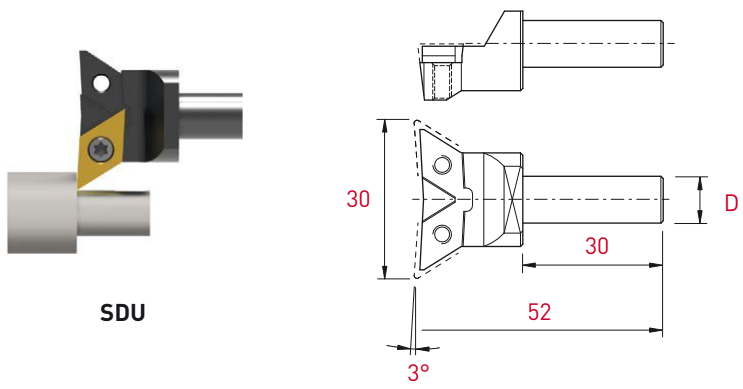
					
Plaquettes WSP Inserts	A x B	L	L1	Art. N°	Art. N°
DC...-0702..	10 x 10	110	20	SDJCL-1010J-07-JET	SDJCR-1010J-07-JET
	12 x 12	110	20	SDJCL-1212J-07-JET	SDJCR-1212J-07-JET
	12.7 x 12.7	110	20	SDJCL-12.7J-07-JET	SDJCR-12.7J-07-JET
	16 x 16	110	20	SDJCL-1616J-07-JET	SDJCR-1616J-07-JET
	20 x 20	110	20	SDJCL-2020J-07-JET	SDJCR-2020J-07-JET
DC...-11T3..	12 x 12	110	23	SDJCL-1212J-11-JET	SDJCR-1212J-11-JET
	12.7 x 12.7	110	23	SDJCL-12.7J-11-JET	SDJCR-12.7J-11-JET
	16 x 16	110	23	SDJCL-1616J-11-JET	SDJCR-1616J-11-JET
	20 x 20	110	23	SDJCL-2020J-11-JET	SDJCR-2020J-11-JET



SDH

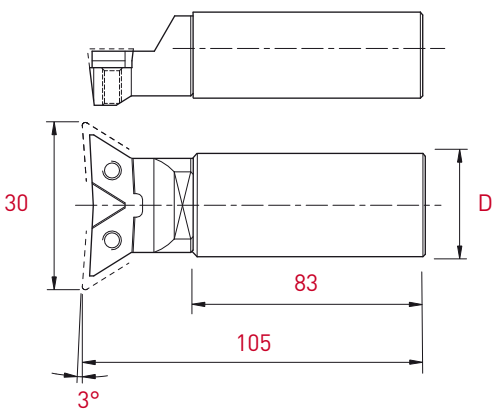


Plaquettes WSP Inserts	A x B	L	Art. N°	Art. N°
DC...-0702..	10 x 10	115	SDHCL-1010X-07	SDHCR-1010X-07
	12 x 12	130	SDHCL-1212X-07	SDHCR-1212X-07
	12 x 12	90	SDHCL-1212G-07	SDHCR-1212G-07
	12.7 x 12.7	130	SDHCL-12.7X-07	SDHCR-12.7X-07
	16 x 16	130	SDHCL-1616X-07	SDHCR-1616X-07
	16 x 16	75	SDHCL-1616F-07	SDHCR-1616F-07
DC...-11T3..	16 x 16	130	SDHCL-1616X-11	SDHCR-1616X-11
	16 x 16	75	SDHCL-1616F-11	SDHCR-1616F-11
	20 x 20	120	SDHCL-2020X-11	SDHCR-2020X-11

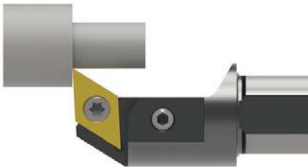


SDU

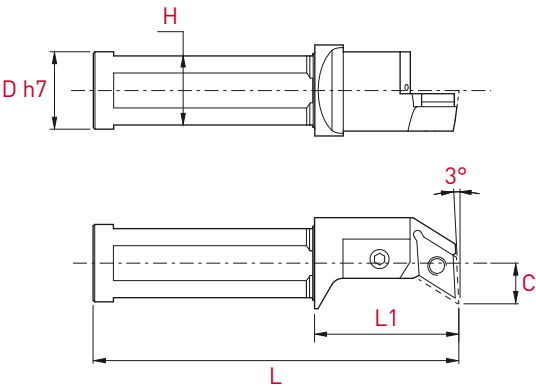
Plaquettes WSP Inserts	D	Art. N°
DC...-11T3..	10	SDUC-D10X-11



Plaquettes WSP Inserts	D	Art. N°
DC...-11T3..	20	SDUC-D20X-11
	25.4	SDUC-D25.4X-11



SDUCL



Plaquettes WSP Inserts	D	C	H	L	L1	Art. N°
DC...-11T3..	19.05	10	17	90	35.5	SDUCL-D19.05-90-11-JET
DC...-11T3..	20	10	17	90	35.5	SDUCL-D20-90-11-JET

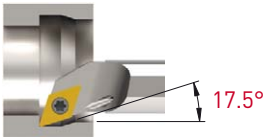
Pièces de rechange Ersatzteile Spare parts	
Art. N°	Art. N°
V-M4X9-T15	V-M5x5-BN24

Options	
Art. N°	Art. N°
C-T15	JS-M5-D4

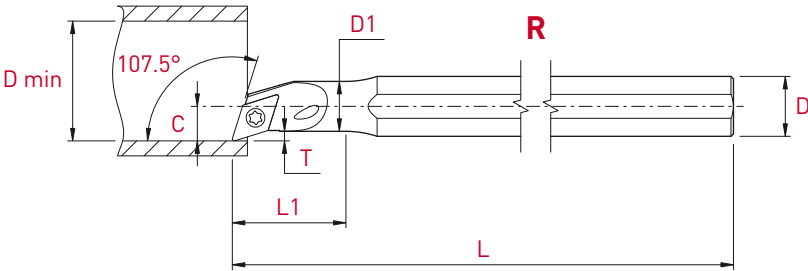
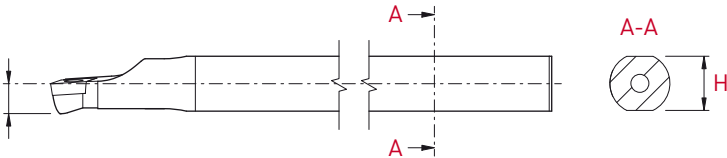
Porte-outils intérieurs amincis
Verjüngte Innenhalter
Thinned internal holders

55°

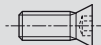
A-SDQCR/L

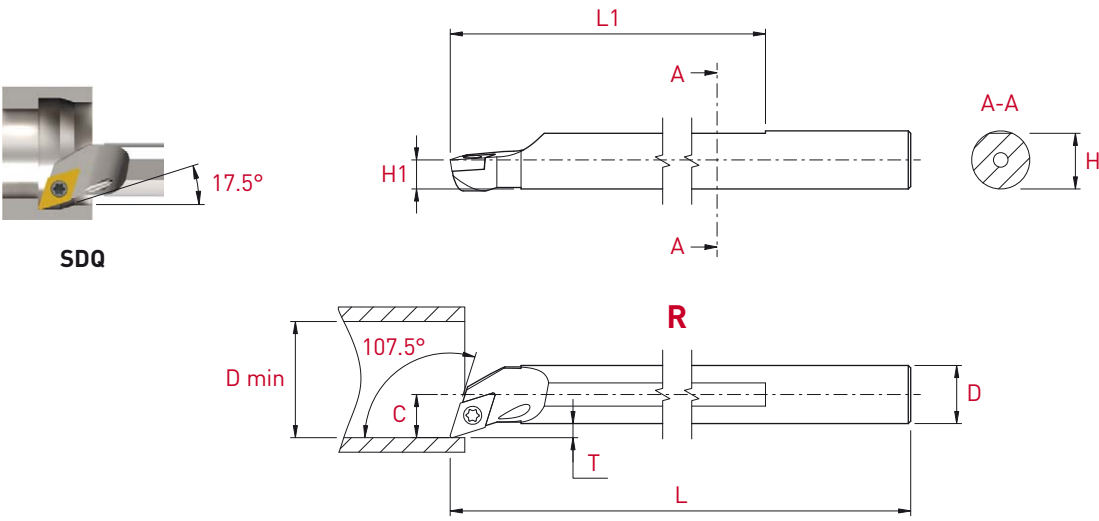


SDQ



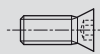
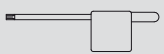
Acier / Stahl / Steel											
Plaquettes WSP Inserts	D	D min	D1	T	C	H1	L	L1	H	Art. N°	Art. N°
DC...-0702	10	12.5	8	2.4	7	5	100	22	9	A0810H-SDQCL-07	A0810H-SDQCR-07
	12	15.5	10	2.9	9	6	125	28	11	A1012K-SDQCL-07	A1012K-SDQCR-07

Pour barres d'alésage Für Borstange For boring bar	Pièces de rechange Ersatzteile Spare parts	Options
		
	Art. N°	Art. N°
A0810H_	V-M2.5X4.8-T8	C-T8
A1012K_	V-M2.5X5.8-T8	



Acier / Stahl / Steel										
Plaquettes WSP Inserts	D	D min	T	C	H1	L	L1	H	Art. N°	Art. N°
DC...-0702	10	14	2.4	7	4.5	100	85	9.5	A10H-SDQCL-07	A10H-SDQCR-07
	12	17	2.9	9	6	125	95	11.5	A12K-SDQCL-07	A12K-SDQCR-07
	16	21	2.9	11	8	150	117	15.5	A16M-SDQCL-07	A16M-SDQCR-07

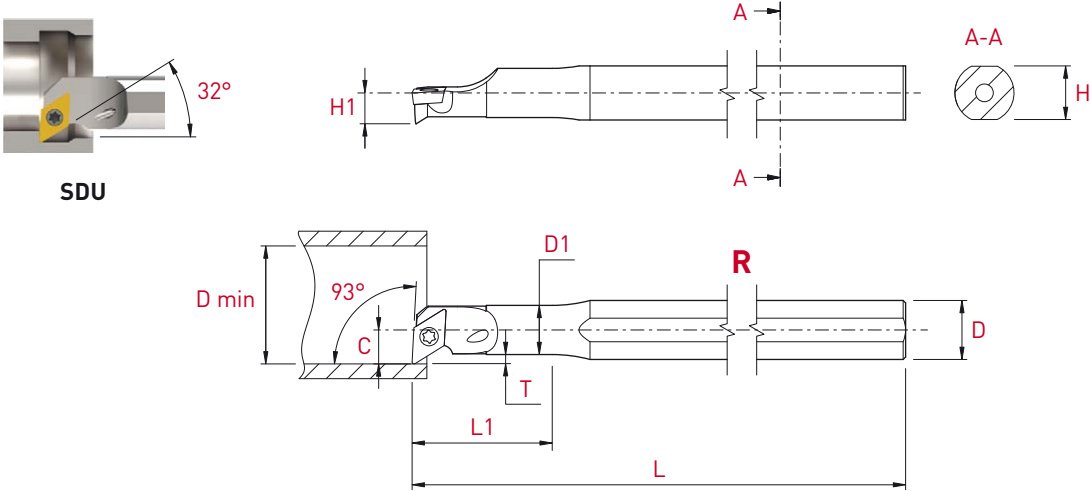
Carbure de tungstène / Hartmetall / Solid carbide										
	D	D min	T	C	H1	L	L1	H	Art. N°	Art. N°
DC...-0702	10	13	2.4	7.5	5	125	-	9.5	E10K-SDQCL-07	E10K-SDQCR-07
	12	17	2.9	9	6	150	-	11.5	E12M-SDQCL-07	E12M-SDQCR-07

Pièces de rechange Ersatzteile Spare parts	Options
	
Art. N°	Art. N°
V-M2.5X5.8-T8	C-T8

Porte-outils intérieurs amincis
Verjüngte Innenhalter
Thinned internal holders

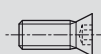
55°

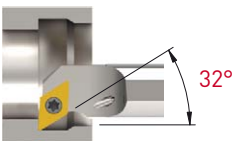
A-SDUCR/L



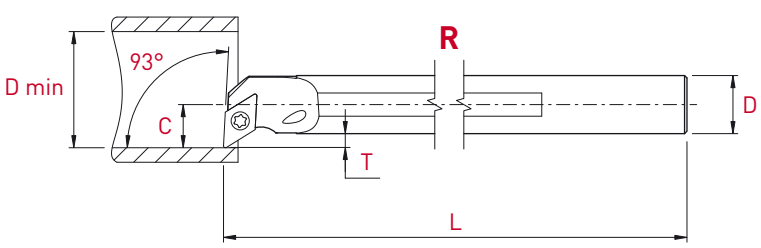
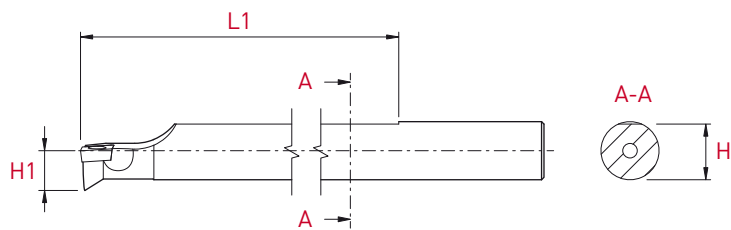
SDU

Acier / Stahl / Steel											
Plaquettes WSP Inserts	D	D min	D1	T	C	H1	L	L1	H	Art. N°	Art. N°
DC...-0702	10	12.5	8	1.9	7	5	100	22	9	A0810H-SDUCL-07	A0810H-SDUCR-07
	12	15.5	10	2.9	9	6	125	28	11	A1012K-SDUCL-07	A1012K-SDUCR-07

Pour barres d'alésage Für Borstange For boring bar	Pièces de rechange Ersatzteile Spare parts	Options
		
	Art. N°	Art. N°
A0810H_	V-M2.5X4.8-T8	C-T8
A1012K_	V-M2.5X5.8-T8	

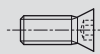
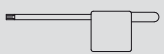


SDU



Acier / Stahl / Steel										
Plaquettes WSP Inserts	D	D min	T	C	H1	L	L1	H	Art. N°	Art. N°
DC..-0702	10	14	1.9	7	5	100	85	9.5	A10H-SDUCL-07	A10H-SDUCR-07
	12	17	2.9	9	6	125	95	11.5	A12K-SDUCL-07	A12K-SDUCR-07
	16	21	2.9	11	8	150	117	15.5	A16M-SDUCL-07	A16M-SDUCR-07

Carbure de tungstène / Hartmetall / Solid carbide										
	D	D min	T	C	H1	L	L1	H	Art. N°	Art. N°
DC..-0702	10	14	1.9	7	5	125	-	9.5	E10K-SDUCL-07	E10K-SDUCR-07
	12	17	2.9	9	6	150	-	11.5	E12M-SDUCL-07	E12M-SDUCR-07

Pièces de rechange Ersatzteile Spare parts	Options
	
Art. N°	Art. N°
V-M2.5X5.8-T8	C-T8

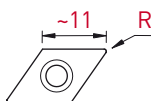
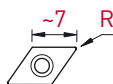
Plaquettes en métal dur

VHM-Wendepplatten

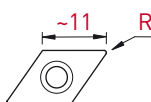
Solid carbide inserts

55°

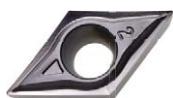
DCGT-X8

DCGT
FN-X8

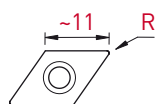
R	Art. N°	PVD					non revêtu unbeschichtet uncoated	
		P M N S TiAlN	P M N S TiAlX	P M N S TiN	P M N S HTA	P M N S HTAX	K20	K10
0.05	DCGT-0702005-FN-X8	•	•	•	•	•	•	•
0.08	DCGT-0702008-FN-X8	•	•		•	•	•	•
0.1	DCGT-070201-FN-X8	•	•	•	•	•	•	•
0.15	DCGT-0702015-FN-X8	•	•		•	•	•	•
0.2	DCGT-070202-FN-X8	•	•	•	•	•	•	•
0.4	DCGT-070204-FN-X8	•	•	•	•	•	•	•
0.05	DCGT-11T3005-FN-X8	•	•	•	•	•	•	•
0.08	DCGT-11T3008-FN-X8	•	•		•	•	•	•
0.1	DCGT-11T301-FN-X8	•	•	•	•	•	•	•
0.15	DCGT-11T3015-FN-X8	•	•		•	•	•	•
0.2	DCGT-11T302-FN-X8	•	•	•	•	•	•	•
0.4	DCGT-11T304-FN-X8	•	•	•	•	•	•	•

DCGT
ENP-X8

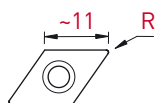
R	Art. N°	PVD		non revêtu unbeschichtet uncoated
		P M N S TiAlN	P M N S TiN	K20
0.05	DCGT-0702005-ENP-X8	•	•	•
0.08	DCGT-0702008-ENP-X8	•		•
0.1	DCGT-070201-ENP-X8	•	•	•
0.15	DCGT-0702015-ENP-X8	•		•
0.2	DCGT-070202-ENP-X8	•	•	•
0.4	DCGT-070204-ENP-X8	•	•	•
0.05	DCGT-11T3005-ENP-X8	•	•	•
0.08	DCGT-11T3008-ENP-X8	•		•
0.1	DCGT-11T301-ENP-X8	•	•	•
0.15	DCGT-11T3015-ENP-X8	•		•
0.2	DCGT-11T302-ENP-X8	•	•	•
0.4	DCGT-11T304-ENP-X8	•	•	•

DCGT
FN-X17

R	Art. N°	PVD							non revêtu unbeschichtet uncoated	
		ST	TiAlN	TiAlX	TiN	HST	HTA	HTAX	K20	K10
0.05	DCGT-0702005-FN-X17	●	●	●	●	●	●	●	●	●
0.08	DCGT-0702008-FN-X17	●	●	●	●	●	●	●	●	●
0.1	DCGT-070201-FN-X17	●	●	●	●	●	●	●	●	●
0.15	DCGT-0702015-FN-X17	●	●	●	●	●	●	●	●	●
0.2	DCGT-070202-FN-X17	●	●	●	●	●	●	●	●	●
0.4	DCGT-070204-FN-X17	●	●	●	●	●	●	●	●	●
0.05	DCGT-11T3005-FN-X17	●	●	●	●	●	●	●	●	●
0.08	DCGT-11T3008-FN-X17	●	●	●	●	●	●	●	●	●
0.1	DCGT-11T301-FN-X17	●	●	●	●	●	●	●	●	●
0.15	DCGT-11T3015-FN-X17	●	●	●	●	●	●	●	●	●
0.2	DCGT-11T302-FN-X17	●	●	●	●	●	●	●	●	●
0.4	DCGT-11T304-FN-X17	●	●	●	●	●	●	●	●	●
0.8	DCGT-11T308-FN-X17	●	●	●	●	●	●	●	●	●

DCGT
ENP-X17

R	Art. N°	PVD			non revêtu unbeschichtet uncoated
		ST	TiAlN	TiN	
0.05	DCGT-0702005-ENP-X17	●	●	●	●
0.08	DCGT-0702008-ENP-X17	●	●	●	●
0.1	DCGT-070201-ENP-X17	●	●	●	●
0.15	DCGT-0702015-ENP-X17	●	●	●	●
0.2	DCGT-070202-ENP-X17	●	●	●	●
0.4	DCGT-070204-ENP-X17	●	●	●	●
0.05	DCGT-11T3005-ENP-X17	●	●	●	●
0.08	DCGT-11T3008-ENP-X17	●	●	●	●
0.1	DCGT-11T301-ENP-X17	●	●	●	●
0.15	DCGT-11T3015-ENP-X17	●	●	●	●
0.2	DCGT-11T302-ENP-X17	●	●	●	●
0.4	DCGT-11T304-ENP-X17	●	●	●	●
0.8	DCGT-11T308-ENP-X17	●	●	●	●



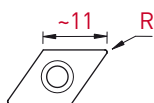
Plaquettes en métal dur

VHM-Wendeplatten

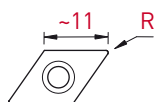
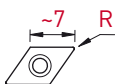
Solid carbide inserts

55°

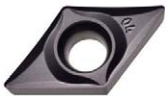
DCGT-X25

DCGT
FN-X25

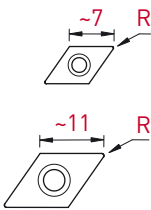
R	Art. N°	PVD			non revêtu unbeschichtet uncoated	
		P M N S TiAlN	P M N S TiN	P M N S HTA	N K20	N K10
0.05	DCGT-0702005-FN-X25	•	•	•	•	•
0.1	DCGT-070201-FN-X25	•	•	•	•	•
0.2	DCGT-070202-FN-X25	•	•	•	•	•
0.4	DCGT-070204-FN-X25	•	•	•	•	•
0.05	DCGT-11T3005-FN-X25	•	•	•	•	•
0.1	DCGT-11T301-FN-X25	•	•	•	•	•
0.2	DCGT-11T302-FN-X25	•	•	•	•	•
0.4	DCGT-11T304-FN-X25	•	•	•	•	•
0.8	DCGT-11T308-FN-X25	•	•	•	•	•

DCGT
ENP-X25

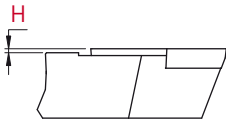
R	Art. N°	PVD			non revêtu unbeschichtet uncoated	
		P M N S TiAlN	P M N S TiAlX	P M N S TiN	N K20	N K10
0.05	DCGT-0702005-ENP-X25	•	•	•	•	•
0.1	DCGT-070201-ENP-X25	•	•	•	•	•
0.2	DCGT-070202-ENP-X25	•	•	•	•	•
0.4	DCGT-070204-ENP-X25	•	•	•	•	•
0.05	DCGT-11T3005-ENP-X25	•	•	•	•	•
0.1	DCGT-11T301-ENP-X25	•	•	•	•	•
0.2	DCGT-11T302-ENP-X25	•	•	•	•	•
0.4	DCGT-11T304-ENP-X25	•	•	•	•	•
0.8	DCGT-11T308-ENP-X25	•	•	•	•	•



DCGT
ENP-X20



			PVD	
			  	  
R	H	Art. N°	ZTA	HTX
0.1	0.2	DCGT-070201-ENP-X20	●	
0.2	0.2	DCGT-070202-ENP-X20	●	●
0.4	0.2	DCGT-070204-ENP-X20	●	●
0.1	0.25	DCGT-11T301-ENP-X20	●	
0.2	0.25	DCGT-11T302-ENP-X20	●	●
0.4	0.25	DCGT-11T304-ENP-X20	●	●
0.8	0.25	DCGT-11T308-ENP-X20	●	●

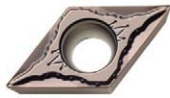
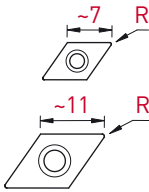


Plaquettes en métal dur

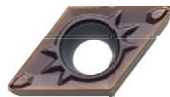
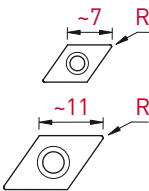
VHM-Wendeplatten

Solid carbide inserts

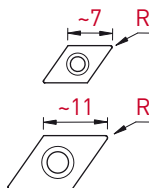
55°

DCMT-XF3 / DCMT-XF2
DCMT-MF2DCMT
EN-XF3

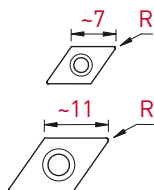
R	Art. N°	PVD	
		TAC	HTAC
0.1	DCMT-070201-EN-XF3	●	●
0.2	DCMT-070202-EN-XF3	●	●
0.4	DCMT-070204-EN-XF3	●	●
0.1	DCMT-11T301-EN-XF3	●	●
0.2	DCMT-11T302-EN-XF3	●	●
0.4	DCMT-11T304-EN-XF3	●	●

DCMT
EN-XF2

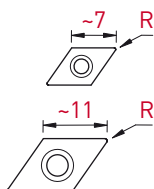
R	Art. N°	PVD		CVD
		TAC	HTAC	HTi5
0.2	DCMT-070202-EN-XF2	●	●	●
0.4	DCMT-070204-EN-XF2	●	●	●
0.2	DCMT-11T302-EN-XF2	●	●	●
0.4	DCMT-11T304-EN-XF2	●	●	●

DCMT
EN-MF2

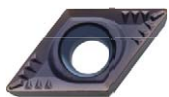
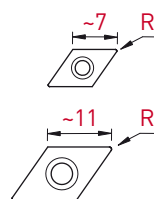
R	Art. N°	PVD		CVD	
		TAC	HTAC	Ti5	HTi5
0.2	DCMT-070202-EN-MF2	●	●	●	●
0.4	DCMT-070204-EN-MF2	●	●	●	●
0.2	DCMT-11T302-EN-MF2	●	●	●	●
0.4	DCMT-11T304-EN-MF2	●	●	●	●
0.8	DCMT-11T308-EN-MF2	●	●	●	●

**DCMT-MF / DCMT-HF3
DCMT-HF**
55°
Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

**DCMT
EN-MF**

R	Art. N°	PVD		CVD	
		Tmax	Ti4	Ti7	
0.2	DCMT-070202-EN-MF	●	●	●	
0.4	DCMT-070204-EN-MF	●	●	●	
0.2	DCMT-11T302-EN-MF	●	●	●	
0.4	DCMT-11T304-EN-MF	●	●	●	


**DCMT
EN-HF3**

R	Art. N°	PVD		CVD
		TiX	HTiX	Ti6
0.2	DCMT-070202-EN-HF3	●	●	●
0.4	DCMT-070204-EN-HF3	●	●	●
0.2	DCMT-11T302-EN-HF3	●	●	●
0.4	DCMT-11T304-EN-HF3	●	●	●
0.8	DCMT-11T308-EN-HF3	●	●	●

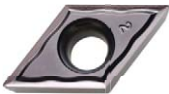

**DCMT
EN-HF**

R	Art. N°	PVD		CVD		
		Tmax	TAC	Ti4	Ti5	HTi5
0.2	DCMT-070202-EN-HF	●	●	●	●	●
0.4	DCMT-070204-EN-HF	●	●	●	●	●
0.8	DCMT-070208-EN-HF	●	●	●	●	●
0.2	DCMT-11T302-EN-HF	●	●	●	●	●
0.4	DCMT-11T304-EN-HF	●	●	●	●	●
0.8	DCMT-11T308-EN-HF	●	●	●	●	●

Plaquettes CERMET
CERMET-Wendeplatten
CERMET inserts

55°

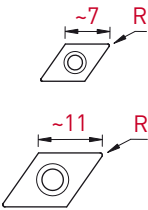
DCGT-X8
DCGT-KX



DCGT
FN-X8

CERMET	
PVD	non revêtu unbeschichtet uncoated
P M	P
CTA	CN6

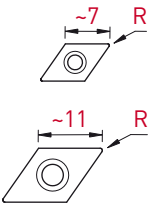
R	Art. N°
0.05	DCGT-0702005-FN-X8
0.1	DCGT-070201-FN-X8
0.2	DCGT-070202-FN-X8
0.05	DCGT-11T3005-FN-X8
0.1	DCGT-11T301-FN-X8
0.2	DCGT-11T302-FN-X8
0.4	DCGT-11T304-FN-X8

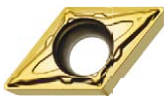


DCGT
ENP-KX

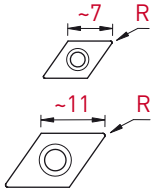
CERMET	
PVD	non revêtu unbeschichtet uncoated
P M	P
CT7	HCT7

R	Art. N°
0.1	DCGT-070201-ENP-KX
0.2	DCGT-070202-ENP-KX
0.4	DCGT-070204-ENP-KX
0.1	DCGT-11T301-ENP-KX
0.2	DCGT-11T302-ENP-KX
0.4	DCGT-11T304-ENP-KX





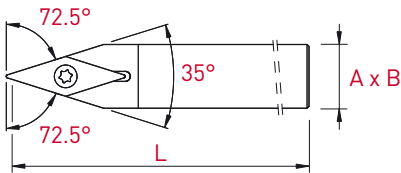
DCMT
EN-KM



		CERMET		
		PVD		non revêtu unbeschichtet uncoated
		P M	P M	P
		CT7	HCT7	CN6
R	Art. N°			
0.2	DCMT-070202-EN-KM	●	●	●
0.4	DCMT-070204-EN-KM	●	●	●
0.2	DCMT-11T302-EN-KM	●	●	●
0.4	DCMT-11T304-EN-KM	●	●	●
0.8	DCMT-11T308-EN-KM	●	●	●



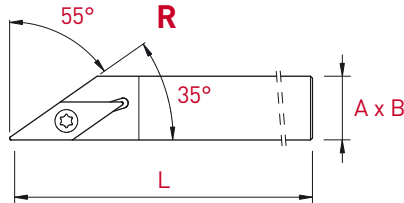
SVV



Plaquettes WSP Inserts	A x B	L	Art. N°
VC...-1103..	8 x 8	115	SVVCN-0808X-11
	10 x 10	115	SVVCN-1010X-11
	12 x 12	130	SVVCN-1212X-11
	12 x 12	90	SVVCN-1212G-11
	12.7 x 12.7	130	SVVCN-12.7X-11
	16 x 16	130	SVVCN-1616X-11
	16 x 16	75	SVVCN-1616F-11
	20 x 20	120	SVVCN-2020X-11
VC...-1303..	8 x 10	115	SVVCN-0810X-13
	10 x 10	115	SVVCN-1010X-13
	12 x 12	130	SVVCN-1212X-13
	12 x 12	90	SVVCN-1212G-13
	12.7 x 12.7	130	SVVCN-12.7X-13
	16 x 16	130	SVVCN-1616X-13
	16 x 16	75	SVVCN-1616F-13
	20 x 20	120	SVVCN-2020X-13
VC...-1604..	12 x 12	130	SVVCN-1212X-16
	12 x 12	90	SVVCN-1212G-16
	12.7 x 12.7	130	SVVCN-12.7X-16
	16 x 16	130	SVVCN-1616X-16
	16 x 16	75	SVVCN-1616F-16
	20 x 20	120	SVVCN-2020X-16



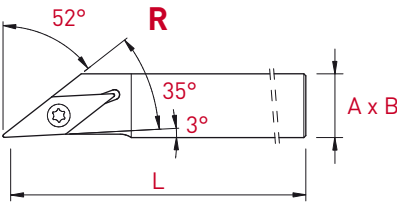
SVA



			 	
Plaquettes WSP Inserts	A x B	L	Art. N°	Art. N°
VC...-1103..	8 x 8	115	SVACL-0808X-11	SVACR-0808X-11
	10 x 10	115	SVACL-1010X-11	SVACR-1010X-11
	12 x 12	130	SVACL-1212X-11	SVACR-1212X-11
	12 x 12	90	SVACL-1212G-11	SVACR-1212G-11
	12.7 x 12.7	130	SVACL-12.7X-11	SVACR-12.7X-11
	16 x 16	130	SVACL-1616X-11	SVACR-1616X-11
	16 x 16	75	SVACL-1616F-11	SVACR-1616F-11
	20 x 20	120	SVACL-2020X-11	SVACR-2020X-11
VC...-1604..	12 x 12	130	SVACL-1212X-16	SVACR-1212X-16
	12 x 12	90	SVACL-1212G-16	SVACR-1212G-16
	12.7 x 12.7	130	SVACL-12.7X-16	SVACR-12.7X-16
	16 x 16	130	SVACL-1616X-16	SVACR-1616X-16
	16 x 16	75	SVACL-1616F-16	SVACR-1616F-16
	20 x 20	120	SVACL-2020X-16	SVACR-2020X-16



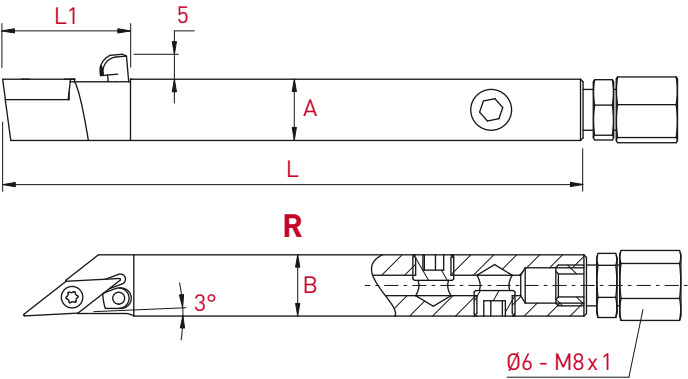
SVJ

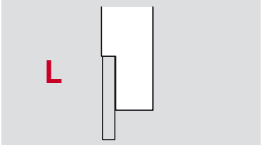
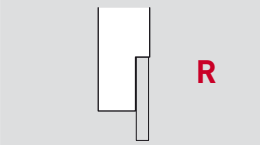


Plaquettes WSP Inserts	A x B	L	Art. N°	Art. N°
VC...-1103..	8 x 8	115	SVJCL-0808X-11	SVJCR-0808X-11
	10 x 10	115	SVJCL-1010X-11	SVJCR-1010X-11
	12 x 12	130	SVJCL-1212X-11	SVJCR-1212X-11
	12 x 12	90	SVJCL-1212G-11	SVJCR-1212G-11
	12.7 x 12.7	130	SVJCL-12.7X-11	SVJCR-12.7X-11
	16 x 16	130	SVJCL-1616X-11	SVJCR-1616X-11
	16 x 16	75	SVJCL-1616F-11	SVJCR-1616F-11
	20 x 20	120	SVJCL-2020X-11	SVJCR-2020X-11
VC...-1303..	8 x 10	115	SVJCL-0810X-13	SVJCR-0810X-13
	10 x 10	115	SVJCL-1010X-13	SVJCR-1010X-13
	12 x 12	130	SVJCL-1212X-13	SVJCR-1212X-13
	12 x 12	90	SVJCL-1212G-13	SVJCR-1212G-13
	12.7 x 12.7	130	SVJCL-12.7X-13	SVJCR-12.7X-13
	16 x 16	130	SVJCL-1616X-13	SVJCR-1616X-13
	16 x 16	75	SVJCL-1616F-13	SVJCR-1616F-13
	20 x 20	120	SVJCL-2020X-13	SVJCR-2020X-13
VC...-1604..	12 x 12	130	SVJCL-1212X-16	SVJCR-1212X-16
	12 x 12	90	SVJCL-1212G-16	SVJCR-1212G-16
	12.7 x 12.7	130	SVJCL-12.7X-16	SVJCR-12.7X-16
	16 x 16	130	SVJCL-1616X-16	SVJCR-1616X-16
	16 x 16	75	SVJCL-1616F-16	SVJCR-1616F-16
	20 x 20	120	SVJCL-2020X-16	SVJCR-2020X-16



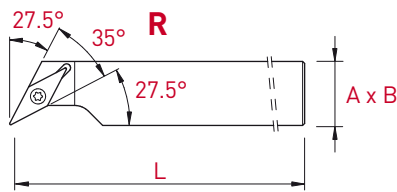
SVJ

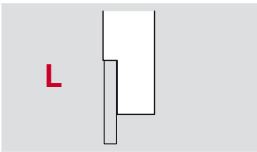
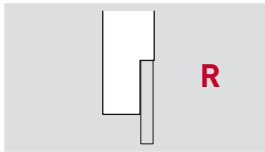


					
Plaquettes WSP Inserts	A x B	L	L1	Art. N°	Art. N°
VC..-1103..	10 x 10	110	21	SVJCL-1010J-11-JET	SVJCR-1010J-11-JET
	12 x 12	110	21	SVJCL-1212J-11-JET	SVJCR-1212J-11-JET
	12.7 x 12.7	110	21	SVJCL-12.7J-11-JET	SVJCR-12.7J-11-JET
	16 x 16	110	21	SVJCL-1616J-11-JET	SVJCR-1616J-11-JET
	20 x 20	110	21	SVJCL-2020J-11-JET	SVJCR-2020J-11-JET
VC..-1303..	10 x 10	110	26	SVJCL-1010J-13-JET	SVJCR-1010J-13-JET
	12 x 12	110	26	SVJCL-1212J-13-JET	SVJCR-1212J-13-JET
	12.7 x 12.7	110	26	SVJCL-12.7J-13-JET	SVJCR-12.7J-13-JET
	16 x 16	110	26	SVJCL-1616J-13-JET	SVJCR-1616J-13-JET
	20 x 20	110	26	SVJCL-2020J-13-JET	SVJCR-2020J-13-JET
VC..-1604..	12 x 12	110	30	SVJCL-1212J-16-JET	SVJCR-1212J-16-JET
	12.7 x 12.7	110	30	SVJCL-12.7J-16-JET	SVJCR-12.7J-16-JET
	16 x 16	110	30	SVJCL-1616J-16-JET	SVJCR-1616J-16-JET
	20 x 20	110	30	SVJCL-2020J-16-JET	SVJCR-2020J-16-JET



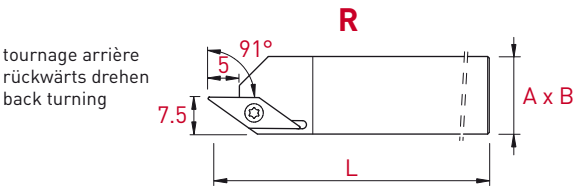
SVX

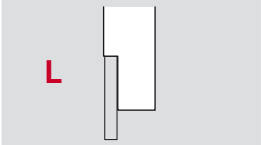
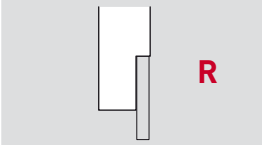


				
Plaquettes WSP Inserts	A x B	L	Art. N°	Art. N°
VC...-1103..	16 x 16	130	SVXCL-1616X-11	SVXCR-1616X-11
	16 x 16	75	SVXCL-1616F-11	SVXCR-1616F-11
	20 x 20	120	SVXCL-2020X-11	SVXCR-2020X-11



SV-CL/R



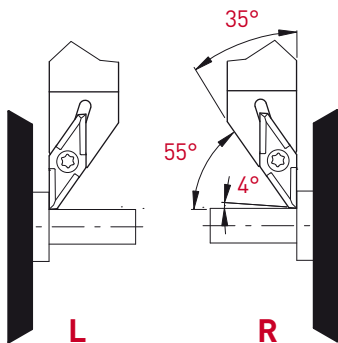
				
Plaquettes WSP Inserts	A x B	L	Art. N°	Art. N°
VCG...-1103..	12 x 12	130	SV-CL-1212X-11	SV-CR-1212X-11
	12 x 12	90	SV-CL-1212G-11	SV-CR-1212G-11
	12.7 x 12.7	130	SV-CL-12.7X-11	SV-CR-12.7X-11
	16 x 16	130	SV-CL-1616X-11	SV-CR-1616X-11
	16 x 16	75	SV-CL-1616F-11	SV-CR-1616F-11
	20 x 20	120	SV-CL-2020X-11	SV-CR-2020X-11

Porte-outils compatibles avec plaquettes VCGT ELP/ERP-FL/FR-X10°

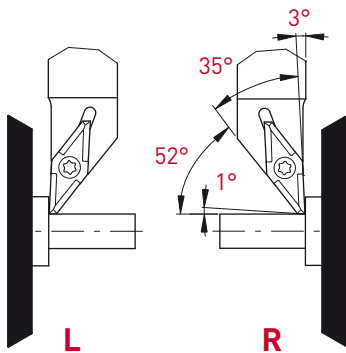
Passende Halter zu den Wendepplatten VCGT ELP/ERP-FL/FR-X10°

Holders compatible with inserts VCGT ELP/ERP-FL/FR-X10°

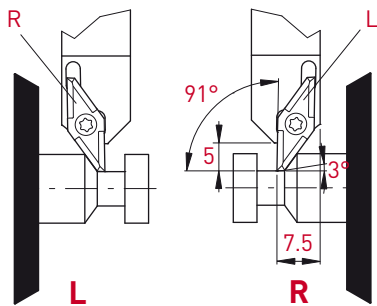
35°



	Art. N°
R	SVACR-...-11
L	SVACL-...-11



	Art. N°
R	SVJCR-...-11
L	SVJCL-...-11

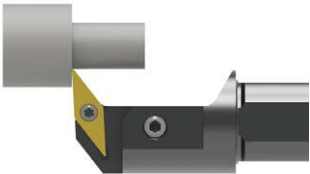


	Art. N°
R	SV-CR-...-11
L	SV-CL-...-11

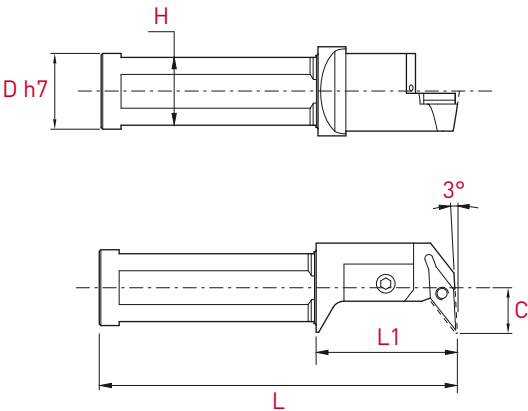
SVUCL-JET

35°

Porte-outils avec arrosage intégré
Halter mit integrierter Kühlmittelzufuhr
Holders with integrated coolant supply



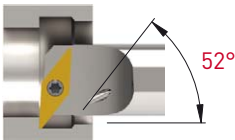
SVUCL



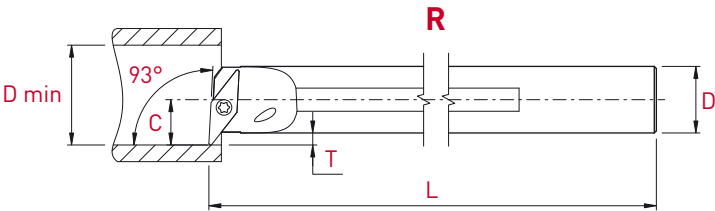
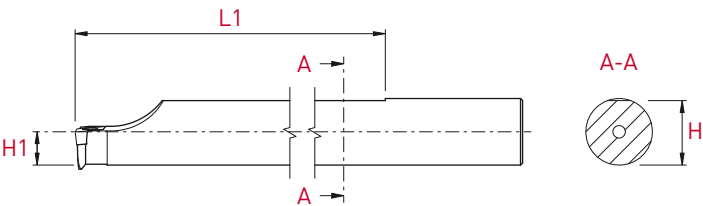
Plaquettes WSP Inserts	D	C	H	L	L1	Art. N°
VC..-1103..	19.05	10	17	90	35.5	SVUCL-D19.05-90-11-JET
VC..-1103..	20	10	17	90	35.5	SVUCL-D20-90-11-JET

Pièces de rechange Ersatzteile Spare parts	
Art. N°	Art. N°
V-M4X9-T15	V-M5x5-BN24

Options	
Art. N°	Art. N°
C-T15	JS-M5-D4



SVU



Acier / Stahl / Steel									L	R
Plaquettes WSP Inserts	D	Dmin	T	C	H1	L	L1	H	Art. N°	Art. N°
VC..-1103	16	21	3.1	11	8	150	118	15.5	A16M-SVUCL-11	A16M-SVUCR-11

Pièces de rechange Ersatzteile Spare parts	Options
Art. N°	Art. N°
V-M2.5X5.8-T8	C-T8

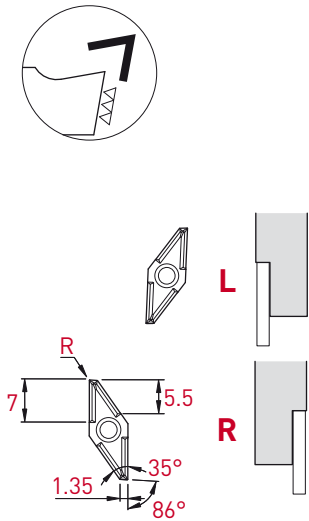
VCGT-L/R-X10

35°

Plaquettes en métal dur

VHM-Wendeplatten

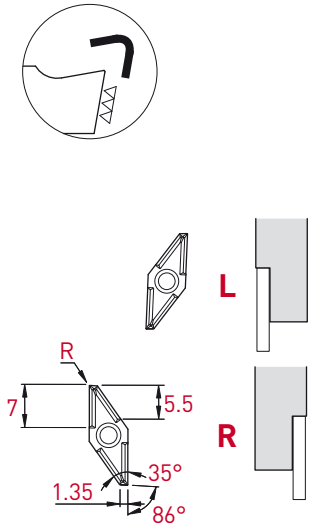
Solid carbide inserts



VCGT
FL / FR-X10

R	Art. N°
0.03	VCGT-1103003-FL-X10
0.08	VCGT-1103008-FL-X10
0.1	VCGT-110301-FL-X10
0.2	VCGT-110302-FL-X10
0.03	VCGT-1103003-FR-X10
0.08	VCGT-1103008-FR-X10
0.1	VCGT-110301-FR-X10
0.2	VCGT-110302-FR-X10

PVD								non revêtu unbeschichtet uncoated	
P	P	P	P	P	P	P	P		
M	M	M	M	M	M	M	M		
	N	N			N			N	N
S	S	S	S	S		S		S	S
ST	TiAlN	HTA	TiAlX	HTAX	TiN	HST		K10	K20
•	•	•			•	•		•	•
•	•	•			•	•		•	•
•	•	•			•	•		•	•
•	•	•			•	•		•	•
•	•	•	•	•	•	•		•	•
•	•	•	•	•	•	•		•	•
•	•	•	•	•	•	•		•	•



VCGT
ELP/ERP-X10

R	Art. N°
0.03	VCGT-1103003-ELP-X10
0.08	VCGT-1103008-ELP-X10
0.1	VCGT-110301-ELP-X10
0.2	VCGT-110302-ELP-X10
0.03	VCGT-1103003-ERP-X10
0.08	VCGT-1103008-ERP-X10
0.1	VCGT-110301-ERP-X10
0.2	VCGT-110302-ERP-X10

PVD							non revêtu unbeschichtet uncoated	
P	P	P	P	P	P			
M	M	M	M	M	M			
	N	N			N	N	N	N
S	S	S	S	S				
ST	TiAlN	HTA	TiAlX	HTAX	TiN		K10	K20
•	•	•			•		•	•
•	•	•			•		•	•
•	•	•			•		•	•
•	•	•			•		•	•
•	•	•	•	•	•		•	•
•	•	•	•	•	•		•	•
•	•	•	•	•	•		•	•

Plaquettes en métal dur

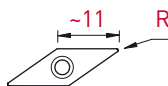
VHM-Wendeplatten

Solid carbide inserts

35°

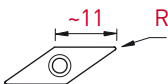
VC GT-K18

VC GW-0



**VC GT
FN-K18**

R	Art. N°	PVD		non revêtu unbeschichtet uncoated
		HTA	HTIN	K10
0.05	VC GT-1103005-FN-K18	●	●	●
0.1	VC GT-110301-FN-K18	●	●	●
0.2	VC GT-110302-FN-K18	●	●	●
0.4	VC GT-110304-FN-K18	●	●	●

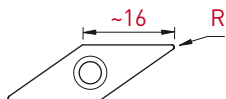
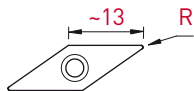
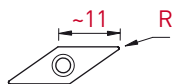


**VC GW
FN-0**

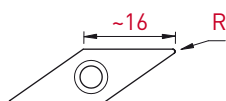
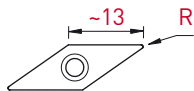
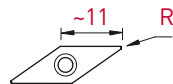
R	Art. N°	PVD		non revêtu unbeschichtet uncoated
		HTA	HTIN	K10
0.05	VC GW-1103005-FN-0	●	●	●
0.1	VC GW-110301-FN-0	●	●	●
0.2	VC GW-110302-FN-0	●	●	●
0.4	VC GW-110304-FN-0	●	●	●

VCGT
FN-X8

R	Art. N°	PVD					non revêtu unbeschichtet uncoated	
		P M N S TiAlN	P M N S TiAlX	P M N S TiN	P M N S HTA	P M N S HTAX	K20	K10
0.05	VCGT-1103005-FN-X8	•	•	•	•	•	•	•
0.08	VCGT-1103008-FN-X8	•	•		•	•	•	•
0.1	VCGT-110301-FN-X8	•	•	•	•	•	•	•
0.15	VCGT-1103015-FN-X8	•	•		•	•	•	•
0.2	VCGT-110302-FN-X8	•	•	•	•	•	•	•
0.4	VCGT-110304-FN-X8	•	•	•	•	•	•	•
0.05	VCGT-1303005-FN-X8	•		•	•		•	•
0.1	VCGT-130301-FN-X8	•		•	•		•	•
0.2	VCGT-130302-FN-X8	•		•	•		•	•
0.4	VCGT-130304-FN-X8	•		•	•		•	•
0.05	VCGT-1604005-FN-X8	•		•	•		•	•
0.1	VCGT-160401-FN-X8	•		•	•		•	•
0.2	VCGT-160402-FN-X8	•		•	•		•	•
0.4	VCGT-160404-FN-X8	•		•	•		•	•

VCGT
ENP-X8

R	Art. N°	PVD		non revêtu unbeschichtet uncoated
		P M N S TiAlN	P M N S TiN	K20
0.05	VCGT-1103005-ENP-X8	•	•	•
0.08	VCGT-1103008-ENP-X8	•		•
0.1	VCGT-110301-ENP-X8	•	•	•
0.15	VCGT-1103015-ENP-X8	•		•
0.2	VCGT-110302-ENP-X8	•	•	•
0.4	VCGT-110304-ENP-X8	•	•	•
0.05	VCGT-1303005-ENP-X8	•		•
0.1	VCGT-130301-ENP-X8	•		•
0.2	VCGT-130302-ENP-X8	•		•
0.4	VCGT-130304-ENP-X8	•		•
0.05	VCGT-1604005-ENP-X8	•	•	•
0.1	VCGT-160401-ENP-X8	•	•	•
0.2	VCGT-160402-ENP-X8	•	•	•
0.4	VCGT-160404-ENP-X8	•	•	•



Plaquettes en métal dur

VHM-Wendeplatten

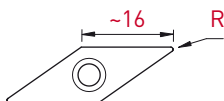
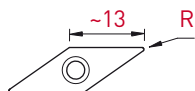
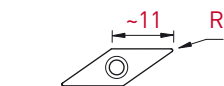
Solid carbide inserts

35°

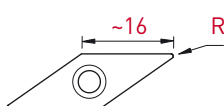
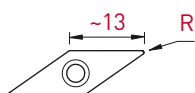
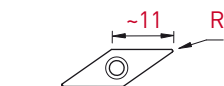
VCGT-X17

VCGT
FN-X17

R	Art. N°	PVD						non revêtu unbeschichtet uncoated	
		ST	TiAlN	TiN	HST	HTA	HTAX	K20	K10
0.05	VCGT-1103005-FN-X17	•	•	•	•	•	•	•	•
0.08	VCGT-1103008-FN-X17	•	•		•	•	•	•	•
0.1	VCGT-110301-FN-X17	•	•	•	•	•	•	•	•
0.15	VCGT-1103015-FN-X17	•	•		•	•	•	•	•
0.2	VCGT-110302-FN-X17	•	•		•	•	•	•	•
0.4	VCGT-110304-FN-X17	•	•	•	•	•	•	•	•
0.05	VCGT-1303005-FN-X17	•	•	•	•	•		•	•
0.1	VCGT-130301-FN-X17	•	•	•	•	•		•	•
0.2	VCGT-130302-FN-X17	•	•		•	•		•	•
0.4	VCGT-130304-FN-X17	•	•	•	•	•		•	•
0.05	VCGT-1604005-FN-X17	•	•	•	•	•		•	•
0.1	VCGT-160401-FN-X17	•	•	•	•	•		•	•
0.2	VCGT-160402-FN-X17	•	•	•	•	•		•	•
0.4	VCGT-160404-FN-X17	•	•	•	•	•		•	•
0.8	VCGT-160408-FN-X17	•	•	•	•	•		•	•

VCGT
ENP-X17

R	Art. N°	PVD			non revêtu unbeschichtet uncoated
		ST	TiAlN	TiN	
0.05	VCGT-1103005-ENP-X17	•	•	•	•
0.08	VCGT-1103008-ENP-X17	•	•		•
0.1	VCGT-110301-ENP-X17	•	•	•	•
0.15	VCGT-1103015-ENP-X17	•	•		•
0.2	VCGT-110302-ENP-X17	•	•	•	•
0.4	VCGT-110304-ENP-X17	•	•	•	•
0.05	VCGT-1303005-ENP-X17	•	•		•
0.1	VCGT-130301-ENP-X17	•	•		•
0.2	VCGT-130302-ENP-X17	•	•		•
0.4	VCGT-130304-ENP-X17	•	•		•
0.05	VCGT-1604005-ENP-X17	•	•	•	•
0.1	VCGT-160401-ENP-X17	•	•	•	•
0.2	VCGT-160402-ENP-X17	•	•	•	•
0.4	VCGT-160404-ENP-X17	•	•	•	•
0.8	VCGT-160408-ENP-X17	•	•	•	•



VCGT-X25

35°

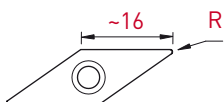
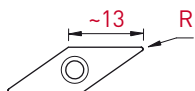
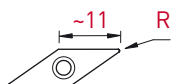
Plaquettes en métal dur

VHM-Wendeplatten

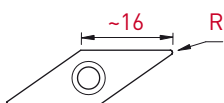
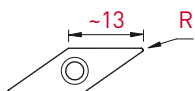
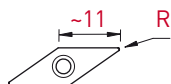
Solid carbide inserts

VCGT
FN-X25

R	Art. N°	PVD			non revêtu unbeschichtet uncoated	
		P M N S TiAlN	P M N TiN	P M N S HTA	N K20	N K10
0.05	VCGT-1103005-FN-X25	•	•	•	•	•
0.1	VCGT-110301-FN-X25	•	•	•	•	•
0.2	VCGT-110302-FN-X25	•	•	•	•	•
0.4	VCGT-110304-FN-X25	•	•	•	•	•
0.05	VCGT-1303005-FN-X25	•	•	•	•	•
0.1	VCGT-130301-FN-X25	•	•	•	•	•
0.2	VCGT-130302-FN-X25	•	•	•	•	•
0.4	VCGT-130304-FN-X25	•	•	•	•	•
0.8	VCGT-130308-FN-X25	•	•	•	•	•
0.05	VCGT-1604005-FN-X25	•	•	•	•	•
0.1	VCGT-160401-FN-X25	•	•	•	•	•
0.2	VCGT-160402-FN-X25	•	•	•	•	•
0.4	VCGT-160404-FN-X25	•	•	•	•	•
0.8	VCGT-160408-FN-X25	•	•	•	•	•

VCGT
ENP-X25

R	Art. N°	PVD			non revêtu unbeschichtet uncoated	
		P M N S TiAlN	P M S TiAlX	P M N TiN	N K20	
0.05	VCGT-1103005-ENP-X25	•	•	•	•	
0.1	VCGT-110301-ENP-X25	•	•	•	•	
0.2	VCGT-110302-ENP-X25	•	•	•	•	
0.4	VCGT-110304-ENP-X25	•	•	•	•	
0.05	VCGT-1303005-ENP-X25	•			•	
0.1	VCGT-130301-ENP-X25	•			•	
0.2	VCGT-130302-ENP-X25	•			•	
0.4	VCGT-130304-ENP-X25	•			•	
0.8	VCGT-130308-ENP-X25	•			•	
0.05	VCGT-1604005-ENP-X25	•		•	•	
0.1	VCGT-160401-ENP-X25	•		•	•	
0.2	VCGT-160402-ENP-X25	•		•	•	
0.4	VCGT-160404-ENP-X25	•		•	•	
0.8	VCGT-160408-ENP-X25	•		•	•	



Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

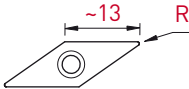
35°

VCGT-X20



VCGT
ENP-X20

PVD	
☐	☐
☒ M	☒ M
☒ N	☒ N
☒ S	☒ S
ZTA	HTIX



R	H	Art. N°	ZTA	HTIX
0.2	0.25	VCGT-130302-ENP-X20	•	•
0.4	0.25	VCGT-130304-ENP-X20	•	•
0.8	0.25	VCGT-130308-ENP-X20	•	•



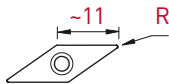
VCMT-XF3
VCMT-XF2

35°

Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts



VCMT
EN-XF3

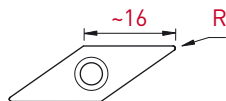
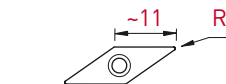


R	Art. N°	PVD	
		TAC	HTAC
0.1	VCMT-110301-EN-XF3	●	●
0.2	VCMT-110302-EN-XF3	●	●
0.4	VCMT-110304-EN-XF3	●	●

PVD	
P	P
M	M
N	N
S	S



VCMT
EN-XF2



R	Art. N°	PVD		CVD
		TAC	HTAC	HTi5
0.2	VCMT-110302-EN-XF2	●	●	●
0.4	VCMT-110304-EN-XF2	●	●	●
0.4	VCMT-160404-EN-XF2	●	●	●

PVD		CVD
P	P	P
M	M	M
N	N	
S	S	

Plaquettes en métal dur

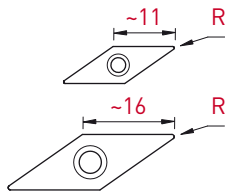
VHM-Wendeplatten

Solid carbide inserts

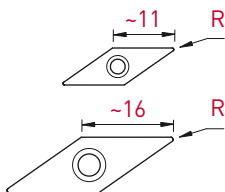
35°

VCMT-MF

VCMT-HF

VCMT
EN-MF

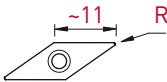
R	Art. N°	PVD	CVD	
		P M ☐ Tmax	P M ☐ Ti4	P M ☐ S Ti7
0.2	VCMT-110302-EN-MF	•	•	•
0.4	VCMT-110304-EN-MF	•	•	•
0.4	VCMT-160404-EN-MF	•	•	•

VCMT
EN-HF

R	Art. N°	PVD	CVD
		P M ☐ Tmax	P M ☐ Ti4
0.4	VCMT-110304-EN-HF	•	•
0.8	VCMT-110308-EN-HF	•	•
0.4	VCMT-160404-EN-HF	•	•
0.8	VCMT-160408-EN-HF	•	•



VCGT
FN-X8



R	Art. N°	CERMET	
		PVD	non revêtu unbeschichtet uncoated
		P M	P
		CTA	CN6
0.05	VCGT-1103005-FN-X8	•	•
0.1	VCGT-110301-FN-X8	•	•
0.2	VCGT-110302-FN-X8	•	•
0.4	VCGT-110304-FN-X8	•	•

Pièces de rechange et accessoires

Ersatzteile und Zubehör

Spare parts and accessories

Vis de rechange Ersatzschrauben Spare screws			Options		
	Porte-outils Halter Holders	Vis Schrauben Screw	Clé Schlüssel Key		
				Clé dynamométrique Drehmomentschlüssel Torque wrench	Serrage Drehmoment Torque
Series SC...-06 Series SD...-07 Series SV...-11	V-M2.5X7.8-T8 	C-T8 	SET-NM1.5-TX8	1.3 Nm	
Series SV...-13	V-M3X7.3-T8-ISO 			2.0 Nm	
Series SC...-09 Series SD...-11 Series SV...-16	V-M4X9-T15-ISO 	C-T15 	SET-NM3.0-TX15	3.0 Nm	

Pièces de rechange JET Ersatzteile JET Spare parts JET	L Pour réf. Für Ref. For ref.	 *	 *	 *
		Art. N°	Art. N°	Art. N°
		S...L-10...-JET	JJL-4X12-D1.5	JB-M8X1
		S...L-12...-JET S...L-12.7...-JET	JJL-4X14-D1.5	
		S...L-16...-JET S...L-20...-JET	JJL-4X17-D1.5	
	R Pour réf. Für Ref. For ref.	 *	 *	 *
		Art. N°	Art. N°	Art. N°
		S...R-10...-JET	JJR-4X12-D1.5	JB-M8X1
		S...R-12...-JET S...R-12.7...-JET	JJR-4X14-D1.5	
		S...R-16...-JET S...R-20...-JET	JJR-4X17-D1.5	

* livré avec chaque porte-outil
mit jedem Halter geliefert
delivered with each holder

SYMBOL

Légende des symboles

Symbollegende

Symbol Legend

E	L	Art. N°	TiAlN	TiN	N (µK20)	HTA	HTiN	HN (µK10)
1.0	5	731RU-1.0	•	•				
1.2	5	731RU-1.2	•	•				
1.5	7	731RU-1.5	•	•	•	•	•	•
2.0	7	731RU-2.0	•	•				

• Article standard
Standardartikel
Standard item

P

Acier
Stahl
Steel

M

Inox
Rostfreistahl
Stainless steel

N

Alliages d'aluminium et non ferreux
Aluminium- und Nichtisenlegierungen
Aluminium and non-ferrous alloys

S

Titane et superalliages
Titan und Superlegierungen
Titanium and superalloys

H

Acier trempé
Gehärteter Stahl
Hardened steel

K

Fonte
Gusseisen
Cast iron

O

Matière exotique
Exotisches material
Exotic material



Carbure
Hartmetall
Carbide



TiAlN

K20

µK20 + revêtement PVD
µK20 + PVD Beschichtung
µK20 + PVD coating

P ★★★★★
M ★★★★★
N ★★★★★
S ★★★★★

TF F M E

Épaisseur du revêtement
Dicken der Beschichtung
Thickness of the coating

TF

Très fin
Sehr dünn
Very thin

F

Fin
Dünn
Thin

M

Moyen
Mittel
Medium

E

Épais
Dick
Thick