ISO-Line

APPLITEC
CUTTING TOOLS

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Kodifizierung
Coding guide

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Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

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

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80°

Porte-outils
Halter
Holders

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Plaquettes
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55°

Porte-outils
Halter
Holders

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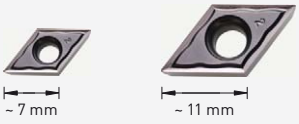
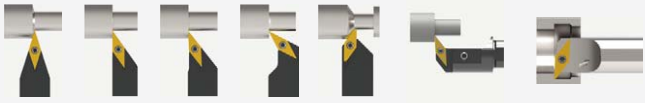
Plaquettes
WSP
Inserts



> 9.45

35°

Porte-outils
Halter
Holders



> 9.53

Plaquettes
WSP
Inserts

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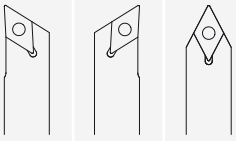
Ersatzteile und Zubehöre
Spare parts and accessories

> 9.71

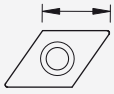
Codification
Kodifizierung
Coding guide

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**

R **L** **N**

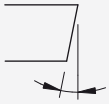


L



[mm]

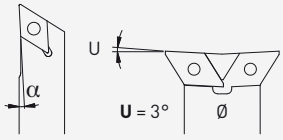
C = 7°



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

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

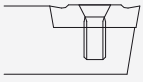


C = 80°

D = 55°

V = 35°

S = vis
Schraube
screw

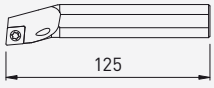


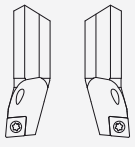
Compatibilité porte-outil - plaquette
WSP - Halter Kompatibilität
Holder - insert compatibility

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

Matière Material Material	Diamètre queue Schaft Shank	Longueur du porte-outil Halter Länge Holder length		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		Dimension de la plaquette (L) WSP Grösse (L) Insert size (L)
A	12	K	–	S	C	L	C	R	–	06

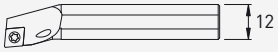
Longueur
Länge
Length
F = 80
H = 100
J = 110
K = 125
M = 150
Q = 180



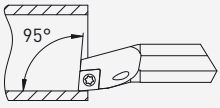


C = 7°

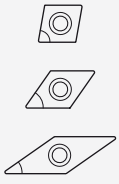
Ø queue
Schaft Ø
Shank Ø



L = 95°
Q = 107.5°
U = 93°



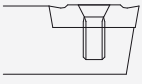
C = 80°
D = 55°
V = 35°



A = acier avec lubrification
Stahl mit Kühlung
Steel with coolant

E = carbure avec lubrification
Harmetall mit Kühlung
Carbide with coolant

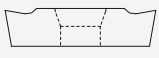
S = vis
Schraube
screw



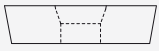
Codification
Kodifizierung
Coding guide

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)	Epaisseur 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**

T



W



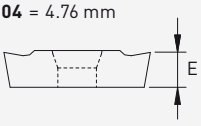
R:
003 = 0.03 mm
005 = 0.05 mm
008 = 0.08 mm
01 = 0.1 mm
015 = 0.15 mm
02 = 0.2 mm
04 = 0.4 mm
08 = 0.8 mm

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

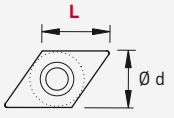
C = 7°

C = 80°

D = 55°

V = 35°

L



[mm]

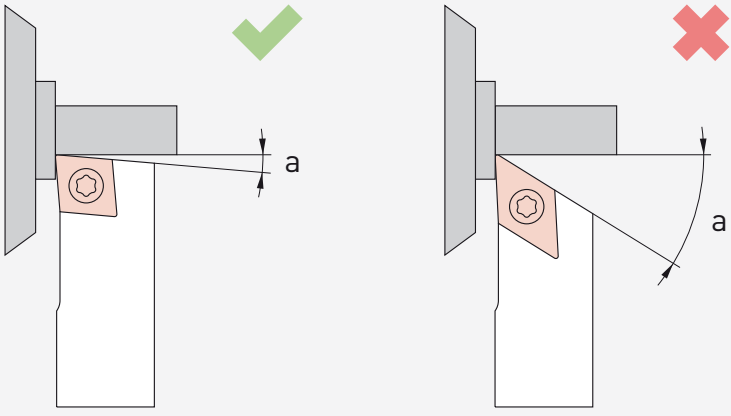
L	Ø d [mm]
CC...**06** DC...**07** VC... **11**	6.350
VC... **13**	7.940
CC...**09** DC... **11** VC... **16**	9.525

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



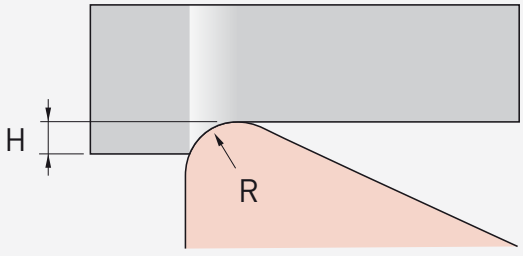
Proportion

rapport hauteur de passe / rayon d'outil

Verhältnis zwischen Spantiefe und Werkzeugradius

machining depth / tool radius ratio

H min = 0.7 X R
R max = 1.4 X H



Plaquettes en métal dur rectifiées
VHM geschliffene WSP
Carbide ground inserts

G
tolerance class

Géométries de coupe
Spanformgeometrien
Cutting geometries

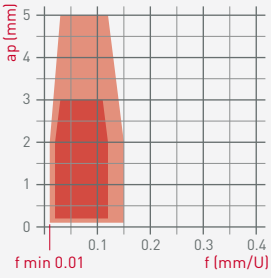
Finishing

FN-X8

8°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



P ★★★★★
M ★★★★
N ★★★★
S ★★★

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

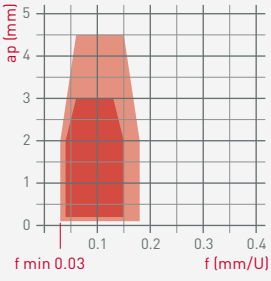
Semi-finishing
Finishing

ENP-X8

8°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

Poli
Poliert
Polished



P ★★★★★
M ★★★
N ★★★
S ★★★

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

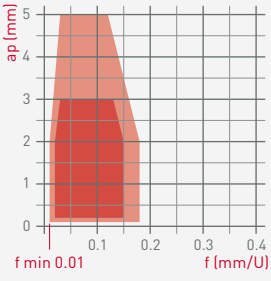
Finishing

FN-X17

17°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



P ★★★
M ★★★★★
N ★★★★
S ★★★★★

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

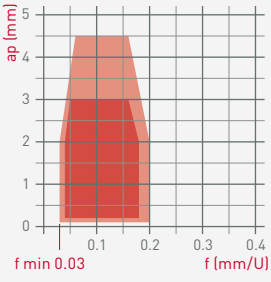
Semi-finishing
Finishing

ENP-X17

17°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

Poli
Poliert
Polished

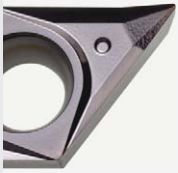


P ★★★
M ★★★★★
N ★★★
S ★★★★

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

Finishing

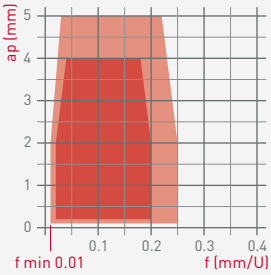
FN-X25



25°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished

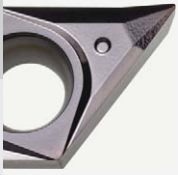


P ★★★
M ★★★★★
N ★★★★
S

CCGT p. 9.28 | DCGT p. 9.47 | VCGT p. 9.66

Semi-finishing
Finishing

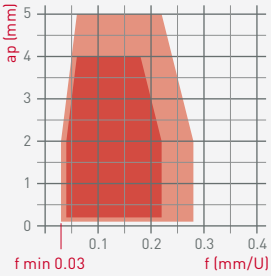
ENP-X25



25°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

Poli
Poliert
Polished



P ★★★
M ★★★★★
N ★★★★
S

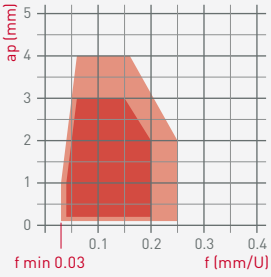
CCGT p. 9.28 | DCGT p. 9.47 | VCGT p. 9.66

Semi-finishing
Finishing

ENP-X20

20°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

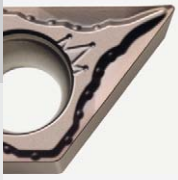


P ★★★★★
M ★★★
N ★★★★★
S

CCGT p. 9.29 | DCGT p. 9.48 | VCGT p. 9.67

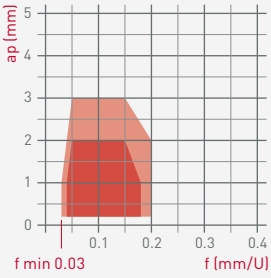
Semi-finishing
Finishing

EN-XF3



12°

Arête de coupe honée
Schneidkantenverrundung
Honed edge



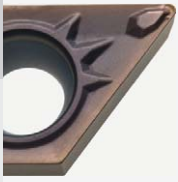
P ★★★★
M ★★★★★
N ★★★
S ★★★

CCMT DCMT VCMT

p. 9.30 p. 9.49 p. 9.68

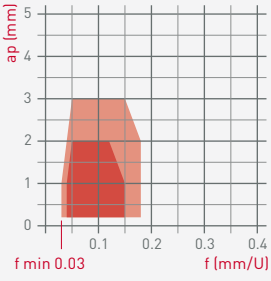
Semi-finishing
Finishing

EN-XF2



6°

Arête de coupe honée
Schneidkantenverrundung
Honed edge



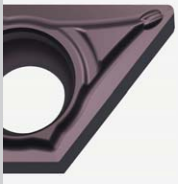
P ★★★★★
M ★★★
N
S ★★★

CCMT DCMT VCMT

p. 9.30 p. 9.49 p. 9.68

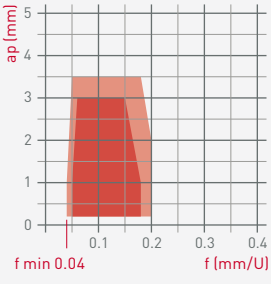
Semi-finishing

EN-MF2



8°

Arête de coupe honée
Schneidkantenverrundung
Honed edge



P ★★★★
M ★★★★
N ★★★
S ★★★

CCMT DCMT

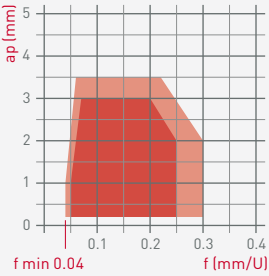
p. 9.30 p. 9.49

Semi-finishing

EN-MF

5°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

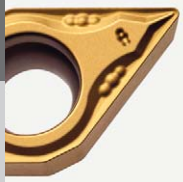


P	★★★★★
M	★★★
N	
S	

CCMT	DCMT	VCMT
p. 9.31	p. 9.50	p. 9.69

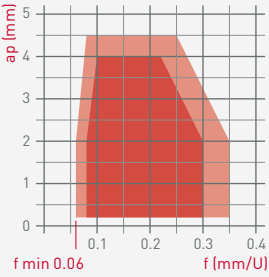
Roughing
Semi-finishing

EN-HF3



10°

Arête de coupe honée
Schneidkantenverrundung
Honed edge



P	★★★★★
M	★★★★★
N	
S	★★★

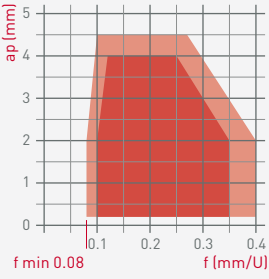
CCMT	DCMT
p. 9.31	p. 9.50

Roughing
Semi-finishing

EN-HF

12°

Arête de coupe honée
Schneidkantenverrundung
Honed edge



P	★★★★★
M	★★★★★
N	
S	

CCMT	DCMT	VCMT
p. 9.31	p. 9.50	p. 9.69

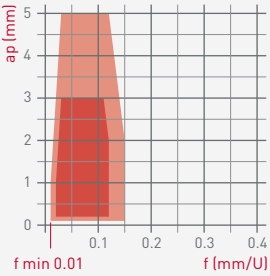
Super-finishing
Finishing

FL/FR-X10

10°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



P ★★★★
M ★★★★★
N ★★★★
S ★★★★

VCGT

p. 9.62

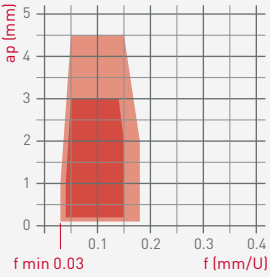
Semi-finishing
Finishing

ELP/ERP-X10

10°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

Poli
Poliert
Polished



P ★★★★★
M ★★★★
N ★★★
S ★★★

VCGT

p. 9.62

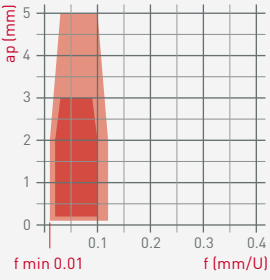
Super-finishing
Finishing

FN-K18

18°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



P ★★★★
M ★★★★★
N ★★★★
S ★★★★

VCGT

p. 9.63

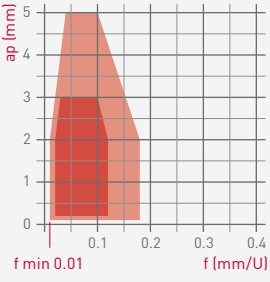
Finishing

FN-0

0°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



P ★★★
M
N ★★★
S

VCGW

p. 9.63

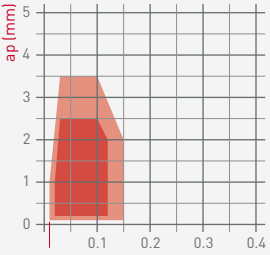
Finishing

FN-X8 CERMET

8°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



P ★★★★★
M ★★★
N
S

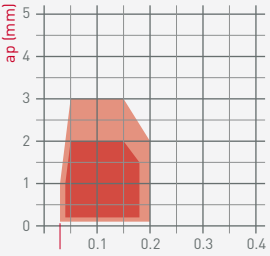
CCGT p. 9.32 | DCGT p. 9.51 | VCGT p. 9.64

Semi-finishing
Finishing

ENP-KX CERMET

8°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

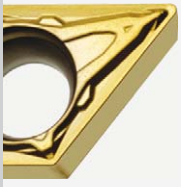


P ★★★★★
M ★★★
N
S

CCGT p. 9.32 | DCGT p. 9.51

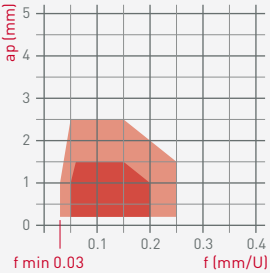
Semi-finishing

EN-KM CERMET



8°

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	

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

★★★★★ ★★★★ ★★★

ISO-Line G tolerance class	Tough grade, for normal to difficult machining conditions	Wear resistant grade, for finishing and light machining	P Acier Stahl Steel						M 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)
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 Alliages 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)
		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
								30-70	0.01-0.12	**30-60**	**0.01-0.12**	**40-70**	**0.01-0.10**
		150-800	0.03-0.20	80-300	0.03-0.18								
		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						

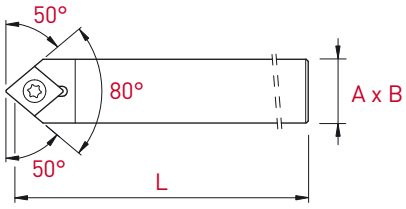
Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

★★★★★ ★★★★ ★★★

ISO-Line M tolerance class	Tough grade, for normal to difficult machining conditions	Wear resistant grade, for finishing and light machining	P Acier / Stahl / Steel						M 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
	Ti5	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												
FN-X8 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**
	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				

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

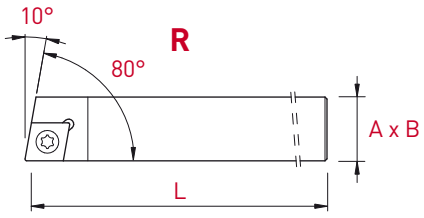
N Alliages d'aluminium et non ferreux Aluminium- und Nichteisenlegierungen Aluminium and non-ferrous alloys									S Titane et superalliages Titan und Superlegierungen Titanium and superalloys					
Aluminium		Al-Si		Cuivre Kupfer Copper		Laiton & bronze Messing & Bronze Brass & bronze		Ti grade 1 - 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)
		120-1500	0.03-0.20	80-300	0.03-0.15	100-400	0.03-0.18			30-70	0.03-0.15	40-80	0.03-0.12
						100-400	0.03-0.18			30-70	0.03-0.15	40-80	0.03-0.12
		120-1500	0.04-0.20	80-300	0.04-0.15	100-400	0.04-0.18			30-70	0.04-0.15	40-80	0.04-0.12
										40-80	0.05-0.12	40-80	0.05-0.12
										30-70	0.06-0.20	40-80	0.06-0.20



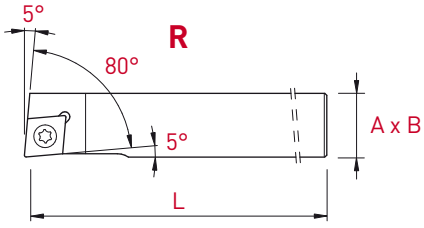
SCM

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



			L	R
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

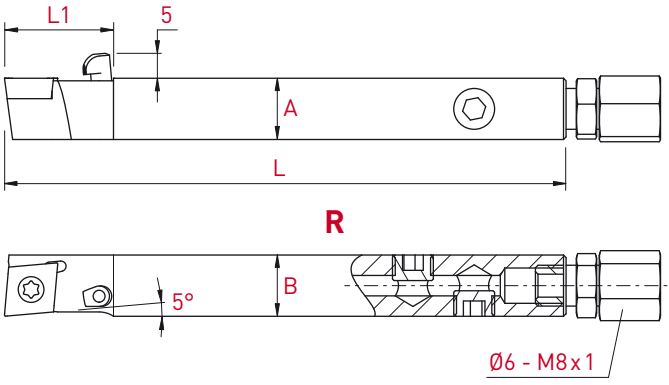
Plaquettes WSP Inserts	A x B	L	L **Art. N°**	R **Art. N°**
CC..-0602..	8 x 8	115	**SCLCL-0808X-06**	**SCLCR-0808X-06**
	10 x 10	115	**SCLCL-1010X-06**	**SCLCR-1010X-06**
	12 x 12	130	**SCLCL-1212X-06**	**SCLCR-1212X-06**
	12 x 12	90	**SCLCL-1212G-06**	**SCLCR-1212G-06**
	12.7 x 12.7	130	**SCLCL-12.7X-06**	**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



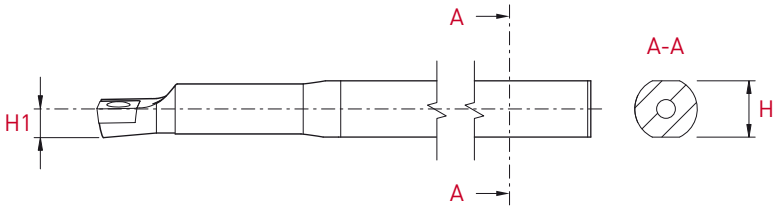
				L	R
Plaquettes WSP Inserts	A x B	L	L1	Art. N°	Art. N°
CC..-0602..	10 x 10	110	21	**SCLCL-1010J-06-JET**	**SCLCR-1010J-06-JET**
	12 x 12	110	21	**SCLCL-1212J-06-JET**	**SCLCR-1212J-06-JET**
	12.7 x 12.7	110	21	**SCLCL-12.7J-06-JET**	**SCLCR-12.7J-06-JET**
	16 x 16	110	21	**SCLCL-1616J-06-JET**	**SCLCR-1616J-06-JET**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

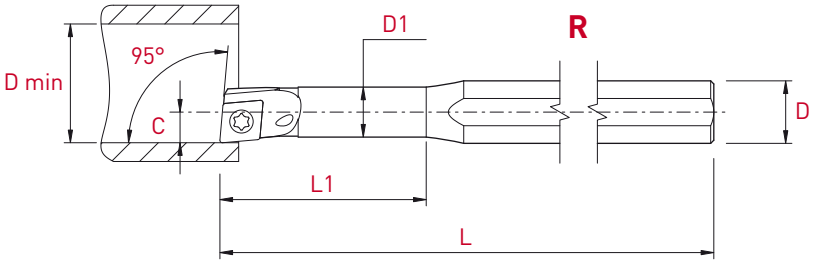
A-SCLCR/L

80°

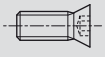
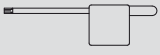
Porte-outils intérieurs amincis
Verjüngte Innenhalter
Thinned internal holders

SCL





	Acier / Stahl / Steel								L	R
Plaquettes WSP Inserts	D	D min	D1	C	H1	L	L1	H	**Art. N°**	**Art. N°**
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**

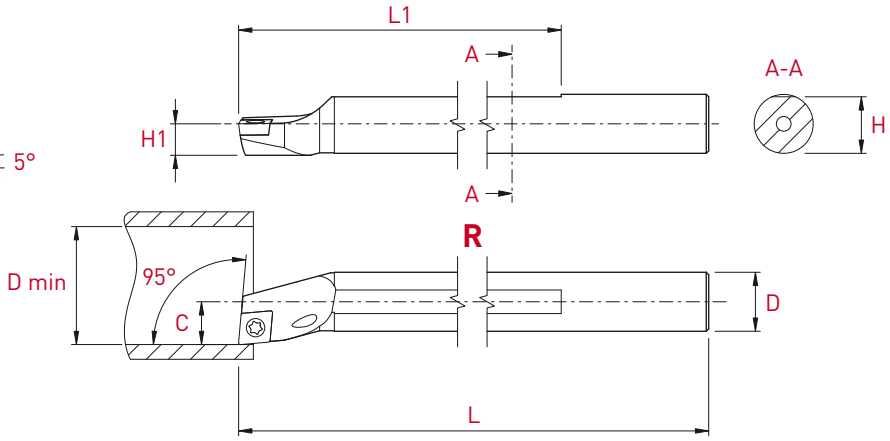
	Pièces de rechange Ersatzteile Spare parts	Options
Pour barres d'alésage Für Borstange For boring bar		
	Art. N°	**Art. N°**
A0608H_ / A0810J_	**V-M2.5X4.8-T8**	**C-T8**
A1012K_	**V-M2.5X5.8-T8**	

Porte-outils intérieurs
Innenhalter
Internal holders

80°

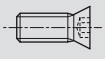
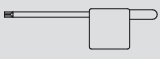
A-SCLCR/L
E-SCLCR/L

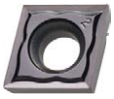
SCL



	Acier / Stahl / Steel							L	R
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**

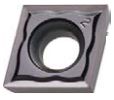
	Carbure de tungstène / Hartmetall / Solid carbide								
	D	D min	C	H1	L	L1	H	Art. N°	Art. N°
CC..-0602	8	9	5	4	125	-	7.5	**E08K-SCLCL-06**	**E08K-SCLCR-06**
	10	11	6	5	125	-	9.5	**E10K-SCLCL-06**	**E10K-SCLCR-06**
	12	13	8	6	150	-	11.5	**E12M-SCLCL-06**	**E12M-SCLCR-06**

	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 TiAlN (P M N S)	PVD TiN (P M N)	PVD HTA (P M N S)	non revêtu K20 (N S)	non revêtu K10 (N S)
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

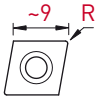
R	Art. N°	PVD TiAlN (P M N S)	PVD TiN (P M N)	non revêtu K20 (N)
0.05	CCGT-0602005-ENP-X8	●	●	●
0.1	CCGT-060201-ENP-X8	●	●	●
0.2	CCGT-060202-ENP-X8	●	●	●
0.4	CCGT-060204-ENP-X8	●	●	●
0.05	CCGT-09T3005-ENP-X8	●	●	●
0.1	CCGT-09T301-ENP-X8	●	●	●
0.2	CCGT-09T302-ENP-X8	●	●	●
0.4	CCGT-09T304-ENP-X8	●	●	●

Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

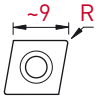
80°

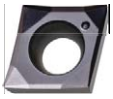
CCGT-X17

CCGT FN-X17

R	Art. N°	PVD ST	PVD TiAlN	PVD TiN	PVD HST	PVD HTA	non revêtu K20	non revêtu K10
0.05	CCGT-0602005-FN-X17	●	●	●	●	●	●	●
0.1	CCGT-060201-FN-X17	●	●	●	●	●	●	●
0.2	CCGT-060202-FN-X17	●	●	●	●	●	●	●
0.4	CCGT-060204-FN-X17	●	●	●	●	●	●	●
								
0.05	CCGT-09T3005-FN-X17	●	●	●	●	●	●	●
0.1	CCGT-09T301-FN-X17	●	●	●	●	●	●	●
0.2	CCGT-09T302-FN-X17	●	●	●	●	●	●	●
0.4	CCGT-09T304-FN-X17	●	●	●	●	●	●	●
0.8	CCGT-09T308-FN-X17	●	●	●	●	●	●	●

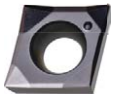
CCGT ENP-X17

R	Art. N°	PVD ST	PVD TiAlN	PVD TiN	non revêtu K20
0.05	CCGT-0602005-ENP-X17	●	●	●	●
0.1	CCGT-060201-ENP-X17	●	●	●	●
0.2	CCGT-060202-ENP-X17	●	●	●	●
0.4	CCGT-060204-ENP-X17	●	●	●	●
					
0.05	CCGT-09T3005-ENP-X17	●	●	●	●
0.1	CCGT-09T301-ENP-X17	●	●	●	●
0.2	CCGT-09T302-ENP-X17	●	●	●	●
0.4	CCGT-09T304-ENP-X17	●	●	●	●
0.8	CCGT-09T308-ENP-X17	●		●	●



CCGT FN-X25

R	Art. N°	PVD P M N S TiAlN	PVD P M N TiN	PVD P M N S HTA	non revêtu unbeschichtet uncoated N K20	non revêtu unbeschichtet uncoated N 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	●	●	●	●	●

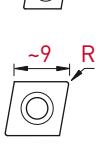


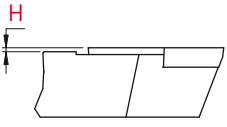
CCGT ENP-X25

R	Art. N°	PVD P M N S TiAlN	PVD P M N TiN	non revêtu unbeschichtet uncoated N K20
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	●	●	●

CCGT
ENP-X20

R	H	Art. N°	PVD ZTA	PVD 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	●	●



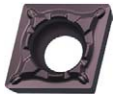


CCMT EN-XF3

R	Art. N°	PVD TAC	PVD HTAC
~6 R			
0.1	CCMT-060201-EN-XF3	●	●
0.2	CCMT-060202-EN-XF3	●	●
0.4	CCMT-060204-EN-XF3	●	●
~9 R			
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 TAC	PVD HTAC	CVD HTi5
~6 R				
0.2	CCMT-060202-EN-XF2	●	●	●
0.4	CCMT-060204-EN-XF2	●	●	●
~9 R				
0.2	CCMT-09T302-EN-XF2	●	●	●
0.4	CCMT-09T304-EN-XF2	●	●	●

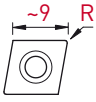


CCMT EN-MF2

R	Art. N°	PVD TAC	PVD HTAC	CVD Ti5	CVD HTi5
~6 R					
0.2	CCMT-060202-EN-MF2	●	●	●	●
0.4	CCMT-060204-EN-MF2	●	●	●	●
~9 R					
0.2	CCMT-09T302-EN-MF2	●	●	●	●
0.4	CCMT-09T304-EN-MF2	●	●	●	●
0.8	CCMT-09T308-EN-MF2	●	●	●	●

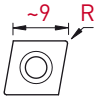
CCMT EN-MF

R	Art. N°	PVD Tmax	CVD Ti4	CVD 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	●	●	●



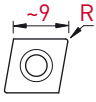
CCMT EN-HF3

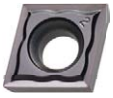
R	Art. N°	PVD TiX	PVD HTiX	CVD Ti6
0.2	CCMT-060202-EN-HF3	●	●	●
0.4	CCMT-060204-EN-HF3	●	●	●
0.2	CCMT-09T302-EN-HF3	●	●	●
0.4	CCMT-09T304-EN-HF3	●	●	●
0.8	CCMT-09T308-EN-HF3	●	●	●



CCMT EN-HF

R	Art. N°	PVD Tmax	PVD TAC	CVD Ti4	CVD Ti5	CVD 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

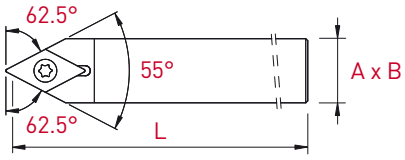
	R	Art. N°	CERMET PVD CTA	CERMET non revêtu unbeschichtet uncoated CN6
~6 R	0.05	CCGT-0602005-FN-X8	●	●
	0.1	CCGT-060201-FN-X8	●	●
	0.2	CCGT-060202-FN-X8	●	●
~9 R	0.05	CCGT-09T3005-FN-X8	●	●
	0.1	CCGT-09T301-FN-X8	●	●
	0.2	CCGT-09T302-FN-X8	●	●
	0.4	CCGT-09T304-FN-X8	●	●

CCGT ENP-KX

	R	Art. N°	CERMET PVD CT7	CERMET PVD HCT7	CERMET non revêtu unbeschichtet uncoated CN6
~6 R	0.1	CCGT-060201-ENP-KX	●	●	●
	0.2	CCGT-060202-ENP-KX	●	●	●
	0.4	CCGT-060204-ENP-KX	●	●	●
~9 R	0.1	CCGT-09T301-ENP-KX	●	●	●
	0.2	CCGT-09T302-ENP-KX	●	●	●
	0.4	CCGT-09T304-ENP-KX	●	●	●

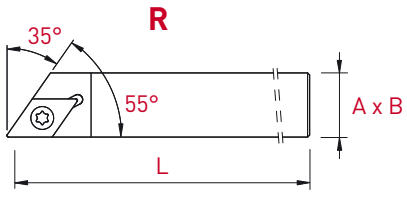
CCMT EN-KM

			CERMET		
			PVD		non revêtu unbeschichtet uncoated
			P M	P M	P
			CT7	HCT7	CN6
	R	Art. N°			
~6 R	0.2	CCMT-060202-EN-KM	●	●	●
	0.4	CCMT-060204-EN-KM	●	●	●
~9 R	0.2	CCMT-09T302-EN-KM	●	●	●
	0.4	CCMT-09T304-EN-KM	●	●	●
	0.8	CCMT-09T308-EN-KM	●	●	●



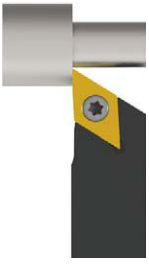
SDN

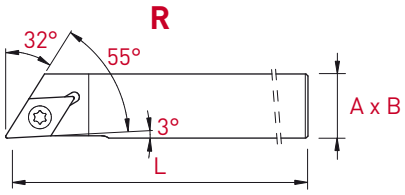
Plaquettes WSP Inserts	A x B	L	Art. N°
DC..-0702..	8 x 8	115	**SDNCN-0808X-07**
	10 x 10	115	**SDNCN-1010X-07**
	12 x 12	130	**SDNCN-1212X-07**
	12 x 12	90	**SDNCN-1212G-07**
	12.7 x 12.7	130	**SDNCN-12.7X-07**
	16 x 16	130	**SDNCN-1616X-07**
	16 x 16	75	**SDNCN-1616F-07**
DC..-11T3..	12 x 12	130	**SDNCN-1212X-11**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



SDA

Plaquettes WSP Inserts	A x B	L	L **Art. N°**	R **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**





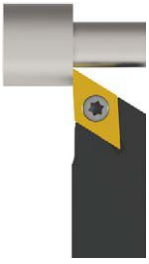
SDJ

Plaquettes WSP Inserts	A x B	L	L Art. N°	R 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**

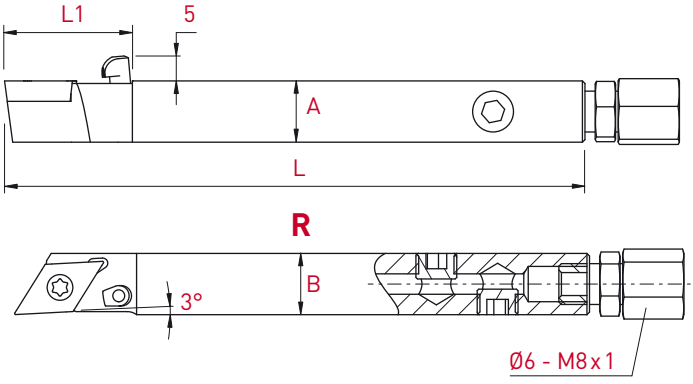
Porte-outils avec arrosage intégré
Halter mit integrierter Kühlmittelzufuhr
Holders with integrated coolant supply

55°

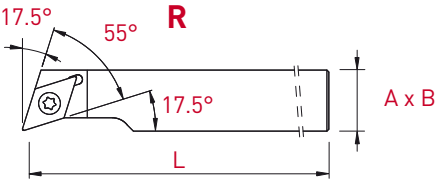
SDJ-JET



SDJ

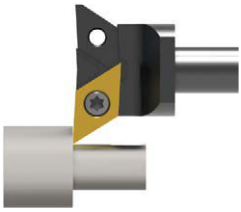


				L	R
Plaquettes WSP Inserts	A x B	L	L1	Art. N°	Art. N°
DC..-0702..	10 x 10	110	20	**SDJCL-1010J-07-JET**	**SDJCR-1010J-07-JET**
	12 x 12	110	20	**SDJCL-1212J-07-JET**	**SDJCR-1212J-07-JET**
	12.7 x 12.7	110	20	**SDJCL-12.7J-07-JET**	**SDJCR-12.7J-07-JET**
	16 x 16	110	20	**SDJCL-1616J-07-JET**	**SDJCR-1616J-07-JET**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

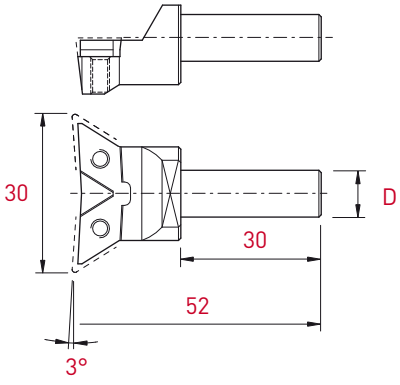


SDH

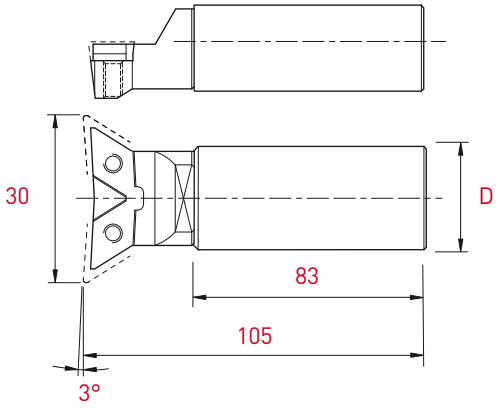
Plaquettes WSP Inserts	A x B	L	L **Art. N°**	R **Art. N°**
DC..-0702..	10 x 10	115	**SDHCL-1010X-07**	**SDHCR-1010X-07**
	12 x 12	130	**SDHCL-1212X-07**	**SDHCR-1212X-07**
	12 x 12	90	**SDHCL-1212G-07**	**SDHCR-1212G-07**
	12.7 x 12.7	130	**SDHCL-12.7X-07**	**SDHCR-12.7X-07**
	16 x 16	130	**SDHCL-1616X-07**	**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**



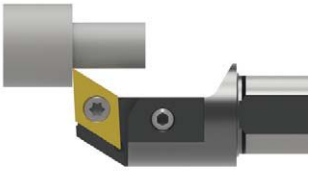
SDU



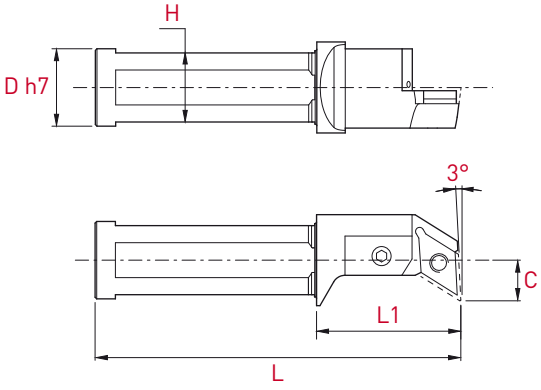
Plaquettes WSP Inserts	D	Art. N°
DC..-11T3..	10	**SDUC-D10X-11**



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

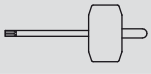


SDUCL



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**

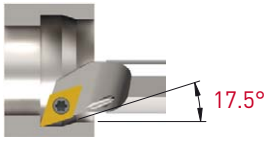
Pièces de rechange Ersatzteile Spare parts	
Art. N°	**Art. N°**
V-M4X9-T15	**V-M5x5-BN24**

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

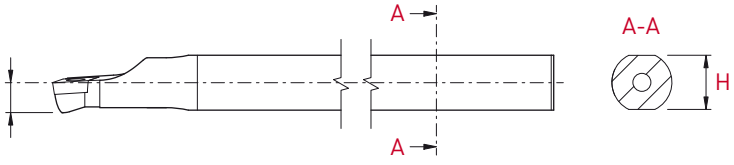
Porte-outils intérieurs amincis
Verjüngte Innenhalter
Thinned internal holders

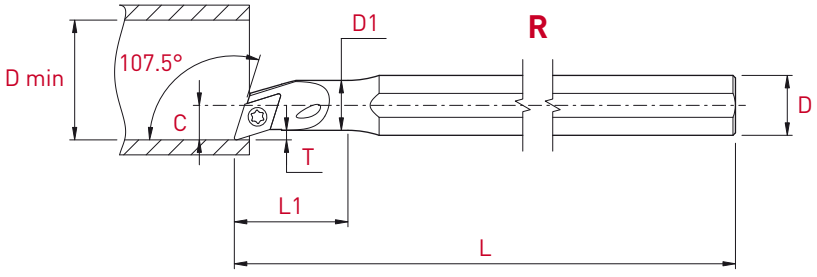
55°

A-SDQCR/L

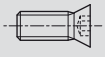
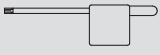


SDQ





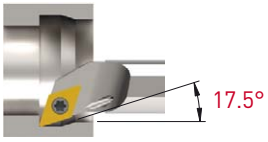
	Acier / Stahl / Steel									L	R
Plaquettes WSP Inserts	D	D min	D1	T	C	H1	L	L1	H	Art. N°	Art. N°
DC..-0702	10	12.5	8	2.4	7	5	100	22	9	**A0810H-SDQCL-07**	**A0810H-SDQCR-07**
	12	15.5	10	2.9	9	6	125	28	11	**A1012K-SDQCL-07**	**A1012K-SDQCR-07**

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

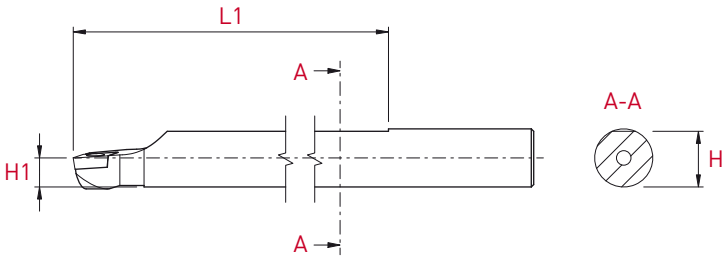
A-SDQCR/L
E-SDQCR/L

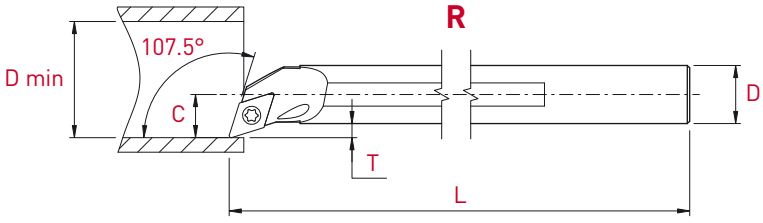
55°

Porte-outils intérieurs
Innenhalter
Internal holders



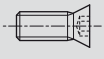
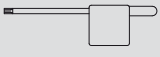
SDQ





	Acier / Stahl / Steel								L	R
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**

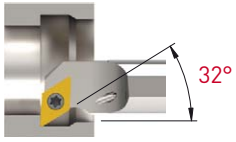
	Carbure de tungstène / Hartmetall / Solid carbide									
	D	D min	T	C	H1	L	L1	H	Art. N°	Art. N°
DC..-0702	10	13	2.4	7.5	5	125	-	9.5	**E10K-SDQCL-07**	**E10K-SDQCR-07**
	12	17	2.9	9	6	150	-	11.5	**E12M-SDQCL-07**	**E12M-SDQCR-07**

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

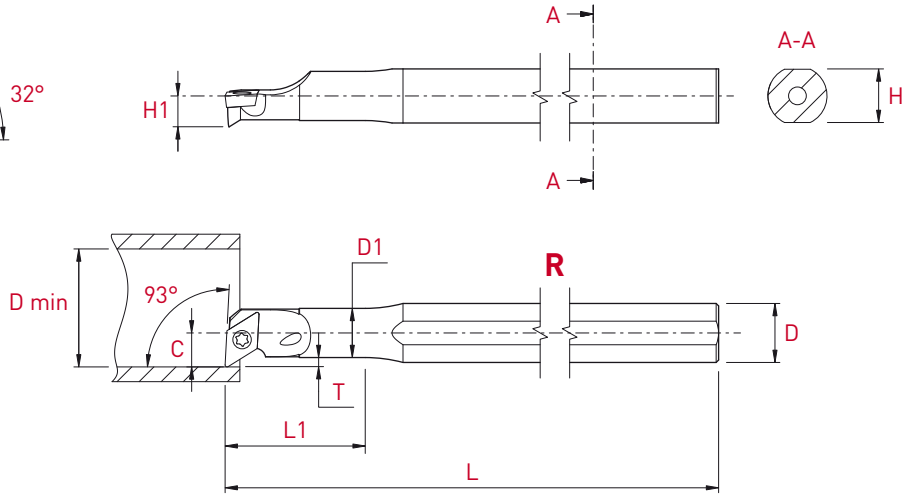
Porte-outils intérieurs amincis
Verjüngte Innenhalter
Thinned internal holders

55°

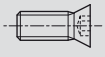
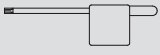
A-SDUCR/L



SDU



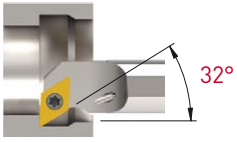
	Acier / Stahl / Steel									L	R
Plaquettes WSP Inserts	D	D min	D1	T	C	H1	L	L1	H	Art. N°	Art. N°
DC..-0702	10	12.5	8	1.9	7	5	100	22	9	**A0810H-SDUCL-07**	**A0810H-SDUCR-07**
	12	15.5	10	2.9	9	6	125	28	11	**A1012K-SDUCL-07**	**A1012K-SDUCR-07**

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

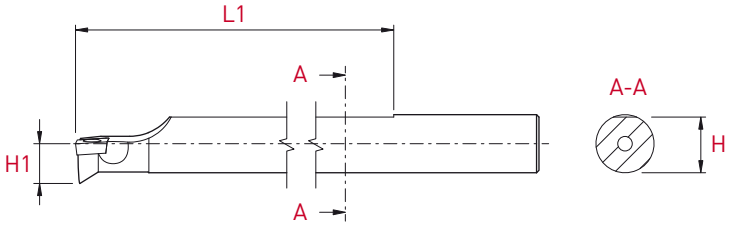
A-SDUCR/L
E-SDUCR/L

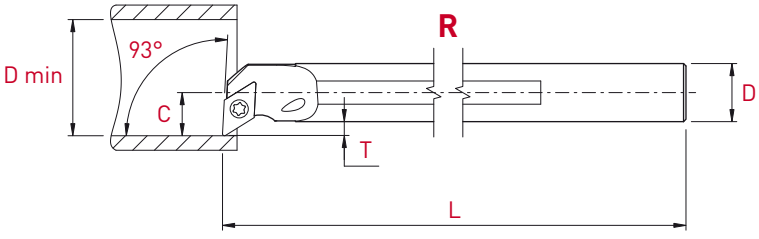
55°

Porte-outils intérieurs
Innenhalter
Internal holders



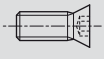
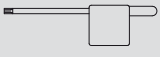
SDU





	Acier / Stahl / Steel								L	R
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**

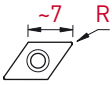
Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

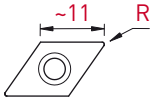
55°

DCGT-X8

DCGT FN-X8

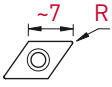
R	Art. N°	PVD TiAlN (P M N S)	PVD TiAlX (P M S)	PVD TiN (P M N)	PVD HTA (P M N S)	PVD HTAX (P M S)	non revêtu unbeschichtet uncoated K20 (N S)	non revêtu unbeschichtet uncoated K10 (N S)
0.05	DCGT-0702005-FN-X8	●	●	●	●	●	●	●
0.08	DCGT-0702008-FN-X8	●	●		●	●	●	●
0.1	DCGT-070201-FN-X8	●	●	●	●	●	●	●
0.15	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	●	●	●	●	●	●	●

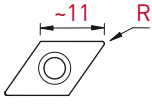




DCGT ENP-X8

R	Art. N°	PVD TiAlN (P M N S)	PVD TiN (P M N)	non revêtu unbeschichtet uncoated K20 (N)
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	●	●	●





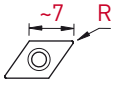
DCGT-X17

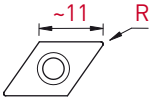
55°

Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

DCGT FN-X17

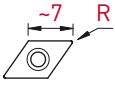
R	Art. N°	PVD ST	PVD TiAlN	PVD TiAlX	PVD TiN	PVD HST	PVD HTA	PVD HTAX	non revêtu K20	non revêtu K10
0.05	DCGT-0702005-FN-X17	●	●	●	●	●	●	●	●	●
0.08	DCGT-0702008-FN-X17	●	●	●		●	●	●	●	●
0.1	DCGT-070201-FN-X17	●	●	●	●	●	●	●	●	●
0.15	DCGT-0702015-FN-X17	●	●	●		●	●	●	●	●
0.2	DCGT-070202-FN-X17	●	●	●	●	●	●	●	●	●
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	●	●	●	●	●	●	●	●	●

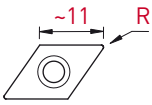




DCGT ENP-X17

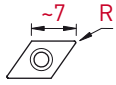
R	Art. N°	PVD ST	PVD TiAlN	PVD TiN	non revêtu K20
0.05	DCGT-0702005-ENP-X17	●	●	●	●
0.08	DCGT-0702008-ENP-X17	●	●		●
0.1	DCGT-070201-ENP-X17	●	●	●	●
0.15	DCGT-0702015-ENP-X17	●	●		●
0.2	DCGT-070202-ENP-X17	●	●	●	●
0.4	DCGT-070204-ENP-X17	●	●	●	●
0.05	DCGT-11T3005-ENP-X17	●	●	●	●
0.08	DCGT-11T3008-ENP-X17	●	●		●
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	●	●	●	●

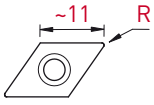




DCGT FN-X25

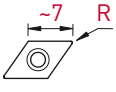
R	Art. N°	PVD TiAlN	PVD TiN	PVD HTA	non revêtu unbeschichtet uncoated K20	non revêtu unbeschichtet uncoated K10
0.05	DCGT-0702005-FN-X25	●	●	●	●	●
0.1	DCGT-070201-FN-X25	●	●	●	●	●
0.2	DCGT-070202-FN-X25	●	●	●	●	●
0.4	DCGT-070204-FN-X25	●	●	●	●	●
0.05	DCGT-11T3005-FN-X25	●	●	●	●	●
0.1	DCGT-11T301-FN-X25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

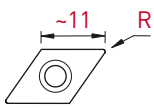




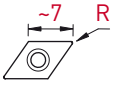
DCGT ENP-X25

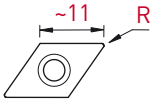
R	Art. N°	PVD TiAlN	PVD TiAlX	PVD TiN	non revêtu unbeschichtet uncoated K20
0.05	DCGT-0702005-ENP-X25	●	●	●	●
0.1	DCGT-070201-ENP-X25	●	●	●	●
0.2	DCGT-070202-ENP-X25	●	●	●	●
0.4	DCGT-070204-ENP-X25	●	●	●	●
0.05	DCGT-11T3005-ENP-X25	●	●	●	●
0.1	DCGT-11T301-ENP-X25	●	●	●	●
0.2	DCGT-11T302-ENP-X25	●	●	●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



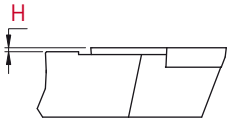


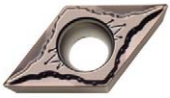
DCGT ENP-X20



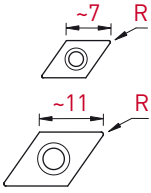


R	H	Art. N°	PVD ZTA	PVD HTiX
0.1	0.2	**DCGT-070201-ENP-X20**	●	
0.2	0.2	**DCGT-070202-ENP-X20**	●	●
0.4	0.2	**DCGT-070204-ENP-X20**	●	●
0.1	0.25	**DCGT-11T301-ENP-X20**	●	
0.2	0.25	**DCGT-11T302-ENP-X20**	●	●
0.4	0.25	**DCGT-11T304-ENP-X20**	●	●
0.8	0.25	**DCGT-11T308-ENP-X20**	●	●

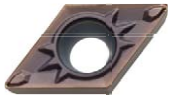




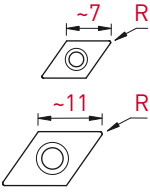
DCMT EN-XF3



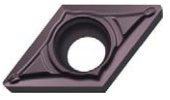
R	Art. N°	PVD P M N S TAC	PVD P M N S HTAC
0.1	DCMT-070201-EN-XF3	●	●
0.2	DCMT-070202-EN-XF3	●	●
0.4	DCMT-070204-EN-XF3	●	●
0.1	DCMT-11T301-EN-XF3	●	●
0.2	DCMT-11T302-EN-XF3	●	●
0.4	DCMT-11T304-EN-XF3	●	●



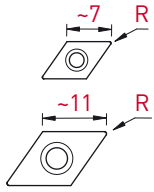
DCMT EN-XF2



R	Art. N°	PVD P M N S TAC	PVD P M N S HTAC	CVD P M 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	●	●	●



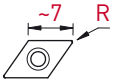
DCMT EN-MF2

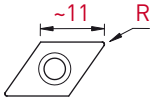


R	Art. N°	PVD P M N S TAC	PVD P M N S HTAC	CVD P M Ti5	CVD P M HTi5
0.2	DCMT-070202-EN-MF2	●	●	●	●
0.4	DCMT-070204-EN-MF2	●	●	●	●
0.2	DCMT-11T302-EN-MF2	●	●	●	●
0.4	DCMT-11T304-EN-MF2	●	●	●	●
0.8	DCMT-11T308-EN-MF2	●	●	●	●

DCMT EN-MF

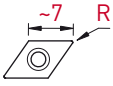
R	Art. N°	PVD P M Tmax	CVD P M Ti4	CVD P S Ti7
0.2	DCMT-070202-EN-MF	●	●	●
0.4	DCMT-070204-EN-MF	●	●	●
0.2	DCMT-11T302-EN-MF	●	●	●
0.4	DCMT-11T304-EN-MF	●	●	●

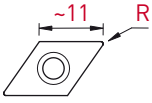




DCMT EN-HF3

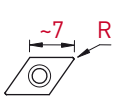
R	Art. N°	PVD P M TiX	PVD P M HTiX	CVD P M Ti6
0.2	DCMT-070202-EN-HF3	●	●	●
0.4	DCMT-070204-EN-HF3	●	●	●
0.2	DCMT-11T302-EN-HF3	●	●	●
0.4	DCMT-11T304-EN-HF3	●	●	●
0.8	DCMT-11T308-EN-HF3	●	●	●

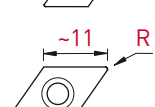




DCMT EN-HF

R	Art. N°	PVD P M Tmax	PVD P M TAC	CVD P M Ti4	CVD P M Ti5	CVD P M 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°

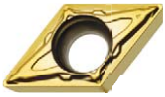
DCGT-X8
DCGT-KX

DCGT FN-X8

R	Art. N°	CERMET PVD CTA	CERMET non revêtu unbeschichtet uncoated CN6
~7 R			
0.05	DCGT-0702005-FN-X8	●	●
0.1	DCGT-070201-FN-X8	●	●
0.2	DCGT-070202-FN-X8	●	●
~11 R			
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

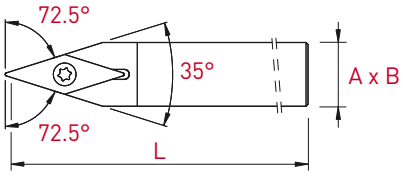
R	Art. N°	CERMET PVD CT7	CERMET PVD HCT7	CERMET non revêtu unbeschichtet uncoated CN6
~7 R				
0.1	DCGT-070201-ENP-KX	●	●	●
0.2	DCGT-070202-ENP-KX	●	●	●
0.4	DCGT-070204-ENP-KX	●	●	●
~11 R				
0.1	DCGT-11T301-ENP-KX	●	●	●
0.2	DCGT-11T302-ENP-KX	●	●	●
0.4	DCGT-11T304-ENP-KX	●	●	●



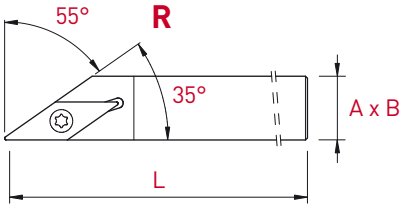
DCMT EN-KM

			CERMET		
			PVD		non revêtu unbeschichtet uncoated
			P M	P M	P
			CT7	HCT7	CN6
R		Art. N°			
~7 R	0.2	**DCMT-070202-EN-KM**	●	●	●
	0.4	**DCMT-070204-EN-KM**	●	●	●
~11 R	0.2	**DCMT-11T302-EN-KM**	●	●	●
	0.4	**DCMT-11T304-EN-KM**	●	●	●
	0.8	**DCMT-11T308-EN-KM**	●	●	●

SVV



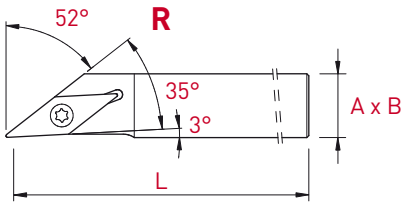
Plaquettes WSP Inserts	A x B	L	Art. N°
VC..-1103..	8 x 8	115	**SVVCN-0808X-11**
	10 x 10	115	**SVVCN-1010X-11**
	12 x 12	130	**SVVCN-1212X-11**
	12 x 12	90	**SVVCN-1212G-11**
	12.7 x 12.7	130	**SVVCN-12.7X-11**
	16 x 16	130	**SVVCN-1616X-11**
	16 x 16	75	**SVVCN-1616F-11**
	20 x 20	120	**SVVCN-2020X-11**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



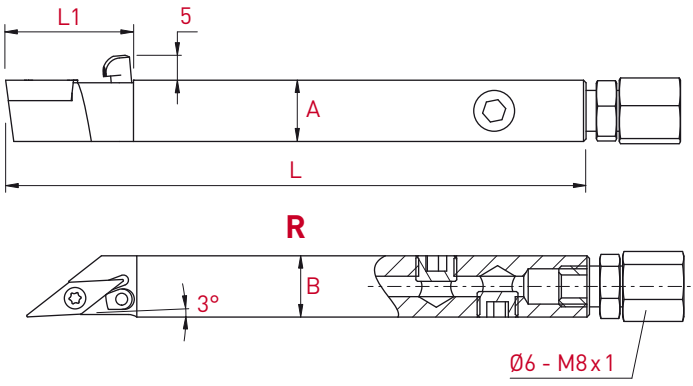
			L	R
Plaquettes WSP Inserts	A x B	L	**Art. N°**	**Art. N°**
VC..-1103..	8 x 8	115	**SVJCL-0808X-11**	**SVJCR-0808X-11**
	10 x 10	115	**SVJCL-1010X-11**	**SVJCR-1010X-11**
	12 x 12	130	**SVJCL-1212X-11**	**SVJCR-1212X-11**
	12 x 12	90	**SVJCL-1212G-11**	**SVJCR-1212G-11**
	12.7 x 12.7	130	**SVJCL-12.7X-11**	**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-JET

35°

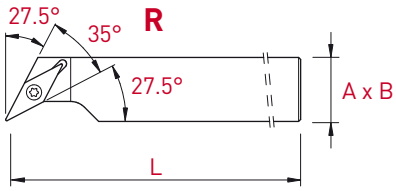
Porte-outils avec arrosage intégré
Halter mit integrierter Kühlmittelzufuhr
Holders with integrated coolant supply

SVJ



				L	R
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

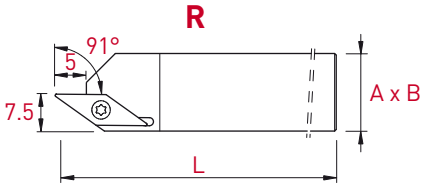
SVX



			L	R
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

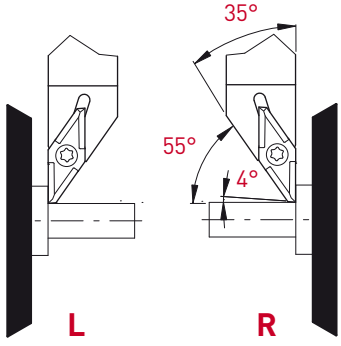
tournage arrière
rückwärts drehen
back turning



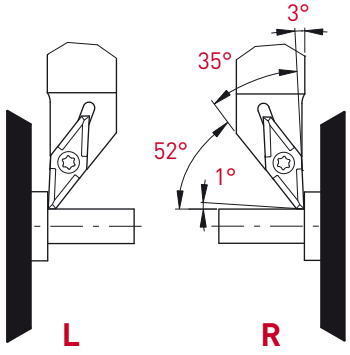
			L	R
Plaquettes WSP Inserts	A x B	L	**Art. N°**	**Art. N°**
VC**G**..-1103..	12 x 12	130	**SV-CL-1212X-11**	**SV-CR-1212X-11**
	12 x 12	90	**SV-CL-1212G-11**	**SV-CR-1212G-11**
	12.7 x 12.7	130	**SV-CL-12.7X-11**	**SV-CR-12.7X-11**
	16 x 16	130	**SV-CL-1616X-11**	**SV-CR-1616X-11**
	16 x 16	75	**SV-CL-1616F-11**	**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 Wendeplatten VCGT ELP/ERP-FL/FR-X10°
Holders compatible with inserts VCGT ELP/ERP-FL/FR-X10°

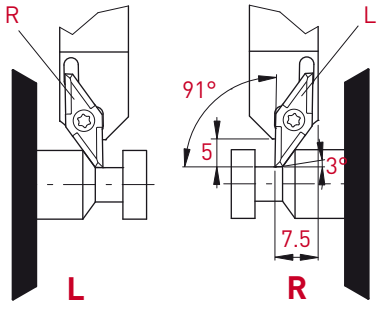
35°



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



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

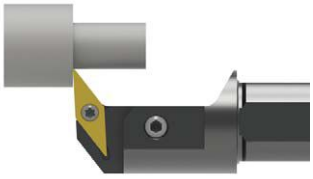


	Art. N°
R	SV-CR-...-11
L	SV-CL-...-11

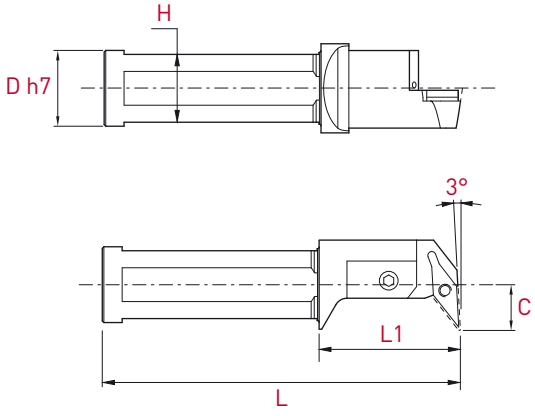
SVUCL-JET

35°

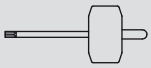
Porte-outils avec arrosage intégré
Halter mit integrierter Kühlmittelzufuhr
Holders with integrated coolant supply



SVUCL



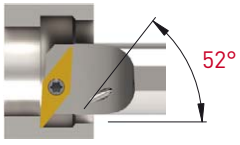
Plaquettes WSP Inserts	D	C	H	L	L1	Art. N°
VC..-1103..	19.05	10	17	90	35.5	**SVUCL-D19.05-90-11-JET**
VC..-1103..	20	10	17	90	35.5	**SVUCL-D20-90-11-JET**

Pièces de rechange Ersatzteile Spare parts		Options	
			
Art. N°	**Art. N°**	**Art. N°**	**Art. N°**
V-M4X9-T15	**V-M5x5-BN24**	**C-T15**	**JS-M5-D4**

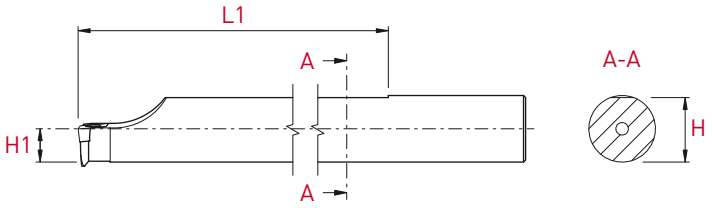
Porte-outils intérieurs
Innenhalter
Internal holders

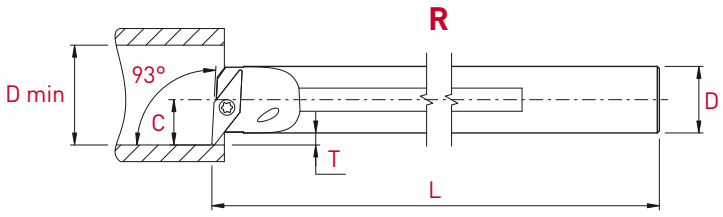
35°

A-SVUCR/L

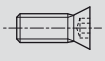
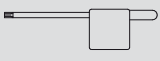


SVU

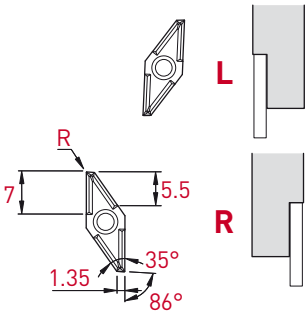




	Acier / Stahl / Steel								L	R
Plaquettes WSP Inserts	D	Dmin	T	C	H1	L	L1	H	Art. N°	Art. N°
VC..-1103	16	21	3.1	11	8	150	118	15.5	A16M-SVUCL-11	A16M-SVUCR-11

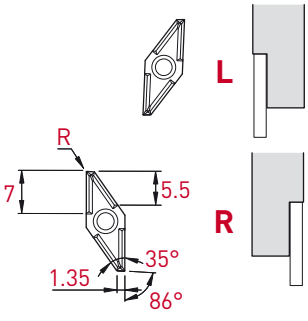
Pièces de rechange Ersatzteile Spare parts	Options
	
Art. N°	Art. N°
V-M2.5X5.8-T8	C-T8

VCGT FL / FR-X10



R	Art. N°	PVD ST	PVD TiAlN	PVD HTA	PVD TiAlX	PVD HTAX	PVD TiN	PVD HST	non revêtu K10	non revêtu K20
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	●	●	●	●	●	●	●	●	●

VCGT ELP/ERP-X10



R	Art. N°	PVD ST	PVD TiAlN	PVD HTA	PVD TiAlX	PVD HTAX	PVD TiN	non revêtu K10	non revêtu K20
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	●	●	●	●	●	●	●	●

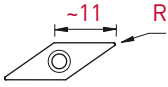
Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

35°

VCGT-K18
VCGW-0

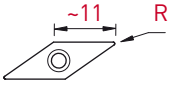
VCGT FN-K18

R	Art. N°	PVD HTA (P M N S)	PVD HTiN (P M N)	non revêtu K10 (N S)
0.05	VCGT-1103005-FN-K18	●	●	●
0.1	VCGT-110301-FN-K18	●	●	●
0.2	VCGT-110302-FN-K18	●	●	●
0.4	VCGT-110304-FN-K18	●	●	●



VCGW FN-0

R	Art. N°	PVD HTA (P N)	PVD HTiN (P N)	non revêtu K10 (N)
0.05	VCGW-1103005-FN-0	●	●	●
0.1	VCGW-110301-FN-0	●	●	●
0.2	VCGW-110302-FN-0	●	●	●
0.4	VCGW-110304-FN-0	●	●	●



VCGT FN-X8

R	Art. N°	PVD TiAlN (PMNS)	PVD TiAlX (PMS)	PVD TiN (PMN)	PVD HTA (PMNS)	PVD HTAX (PMS)	non revêtu K20 (NS)	non revêtu K10 (NS)
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 TiAlN (PMNS)	PVD TiN (PMN)	non revêtu K20 (N)
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	●	●	●

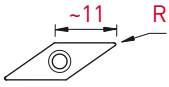
Plaquettes en métal dur
VHM-Wendeplatten
Solid carbide inserts

35°

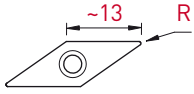
VCGT-X17

VCGT FN-X17

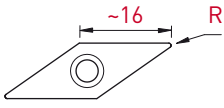
R	Art. N°	PVD ST	PVD TiAlN	PVD TiN	PVD HST	PVD HTA	PVD HTAX	non revêtu K20	non revêtu K10
		P M S	P M N S	P M N	P M S	P M N S	P M S	N S	N S
0.05	VCGT-1103005-FN-X17	●	●	●	●	●	●	●	●
0.08	VCGT-1103008-FN-X17	●	●		●	●	●	●	●
0.1	VCGT-110301-FN-X17	●	●	●	●	●	●	●	●
0.15	VCGT-1103015-FN-X17	●	●		●	●	●	●	●
0.2	VCGT-110302-FN-X17	●	●	●	●	●	●	●	●
0.4	VCGT-110304-FN-X17	●	●	●	●	●	●	●	●



R	Art. N°	PVD ST	PVD TiAlN	PVD TiN	PVD HST	PVD HTA	PVD HTAX	non revêtu K20	non revêtu K10
0.05	VCGT-1303005-FN-X17	●	●	●	●	●		●	●
0.1	VCGT-130301-FN-X17	●	●	●	●	●		●	●
0.2	VCGT-130302-FN-X17	●	●	●	●	●		●	●
0.4	VCGT-130304-FN-X17	●	●	●	●	●		●	●

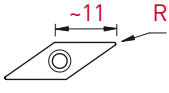


R	Art. N°	PVD ST	PVD TiAlN	PVD TiN	PVD HST	PVD HTA	PVD HTAX	non revêtu K20	non revêtu K10
0.05	VCGT-1604005-FN-X17	●	●	●	●	●		●	●
0.1	VCGT-160401-FN-X17	●	●	●	●	●		●	●
0.2	VCGT-160402-FN-X17	●	●	●	●	●		●	●
0.4	VCGT-160404-FN-X17	●	●	●	●	●		●	●
0.8	VCGT-160408-FN-X17	●	●	●	●	●		●	●

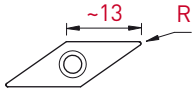


VCGT ENP-X17

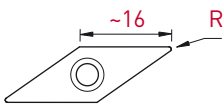
R	Art. N°	PVD ST	PVD TiAlN	PVD TiN	non revêtu K20
		P M S	P M N S	P M N	N
0.05	VCGT-1103005-ENP-X17	●	●	●	●
0.08	VCGT-1103008-ENP-X17	●	●		●
0.1	VCGT-110301-ENP-X17	●	●	●	●
0.15	VCGT-1103015-ENP-X17	●	●		●
0.2	VCGT-110302-ENP-X17	●	●	●	●
0.4	VCGT-110304-ENP-X17	●	●	●	●



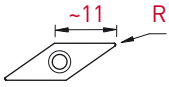
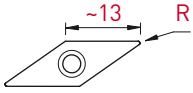
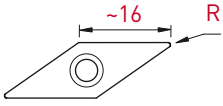
R	Art. N°	PVD ST	PVD TiAlN	PVD TiN	non revêtu K20
0.05	VCGT-1303005-ENP-X17	●	●		●
0.1	VCGT-130301-ENP-X17	●	●		●
0.2	VCGT-130302-ENP-X17	●	●		●
0.4	VCGT-130304-ENP-X17	●	●		●



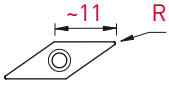
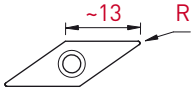
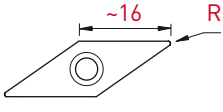
R	Art. N°	PVD ST	PVD TiAlN	PVD TiN	non revêtu K20
0.05	VCGT-1604005-ENP-X17	●	●	●	●
0.1	VCGT-160401-ENP-X17	●	●	●	●
0.2	VCGT-160402-ENP-X17	●	●	●	●
0.4	VCGT-160404-ENP-X17	●	●	●	●
0.8	VCGT-160408-ENP-X17	●	●	●	●



VCGT FN-X25

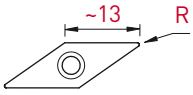
	R	Art. N°	PVD TiAlN (P M N S)	PVD TiN (P M N)	PVD HTA (P M N S)	non revêtu K20 (N)	non revêtu K10 (N)
	0.05	VCGT-1103005-FN-X25	●	●	●	●	●
	0.1	VCGT-110301-FN-X25	●	●	●	●	●
	0.2	VCGT-110302-FN-X25	●	●	●	●	●
	0.4	VCGT-110304-FN-X25	●	●	●	●	●
	0.05	VCGT-1303005-FN-X25	●	●	●	●	●
	0.1	VCGT-130301-FN-X25	●	●	●	●	●
	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	●	●	●	●	●

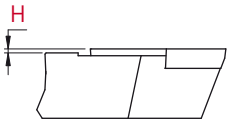
VCGT ENP-X25

	R	Art. N°	PVD TiAlN (P M N S)	PVD TiAlX (P M S)	PVD TiN (P M N)	non revêtu K20 (N)
	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	●		●	●

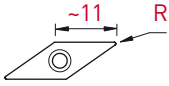
VCGT ENP-X20

R	H	Art. N°	PVD ZTA	PVD 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**	●	●



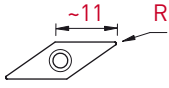


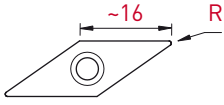
VCMT EN-XF3



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

VCMT EN-XF2

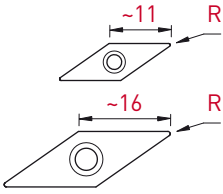


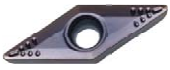


R	Art. N°	PVD P M N S TAC	PVD P M N S HTAC	CVD P M HTi5
0.2	VCMT-110302-EN-XF2	●	●	●
0.4	VCMT-110304-EN-XF2	●	●	●
0.4	VCMT-160404-EN-XF2	●	●	●

VCMT EN-MF

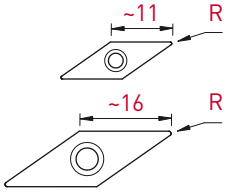
R	Art. N°	PVD Tmax	CVD Ti4	CVD Ti7
		P M	P M	P M S
0.2	VCMT-110302-EN-MF	●	●	●
0.4	VCMT-110304-EN-MF	●	●	●
0.4	VCMT-160404-EN-MF	●	●	●



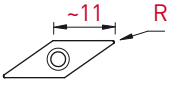


VCMT EN-HF

R	Art. N°	PVD Tmax	CVD Ti4
		P M	P M
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 CTA	CERMET non revêtu unbeschichtet uncoated 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**	●	●

	Porte-outils Halter Holders	Vis Schrauben Screw	Options Clé Schlüssel Key	Clé dynamométrique Drehmomentschlüssel Torque wrench	Serrage Drehmoment Torque
Vis de rechange **Ersatzschrauben** **Spare screws**	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**	**J-M8X1-D6**	**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**	**J-M8X1-D6**	**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

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 Nichteisenlegierungen
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