ISO-Line



APPLITEC
CUTTING TOOLS

Codification
Kodifizierung
Coding guide

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

> 9.04

Conseils d'utilisation
Anwendungsempfehlungen
Application recommendations

> 9.07

Géométries de coupe
Spanformgeometrien
Cutting geometries



> 9.08

Nuances
Sorten
Grades

PVD | CVD | CERMET

> 9.14

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

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

> 9.16

Zurück zum Kapitelanfang

ISO-Line

Index

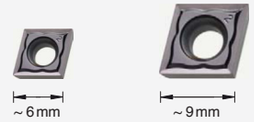
80°

Porte-outils
Halter
Holders



> 9.20

Plaquettes
WSP
Inserts



> 9.26

55°

Porte-outils
Halter
Holders



> 9.34

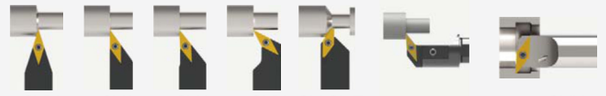
Plaquettes
WSP
Inserts



> 9.45

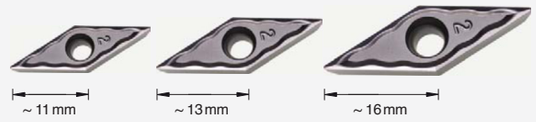
35°

Porte-outils
Halter
Holders



> 9.53

Plaquettes
WSP
Inserts



> 9.62

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



> 9.71

ISO-Line
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°

U
U = 3°
Ø

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

125

Øqueue
Schaft Ø
Shank Ø

12

L R

C = 7°

L = 95°
Q = 107.5°
U = 93°

95°

A = acier avec lubrification
Stahl mit Kühlung
Steel with coolant

E = carbure avec lubrification
Harmetall mit Kühlung
Carbide with coolant

C = 80°
D = 55°
V = 35°

S = vis
Schraube
screw

L

Zurück zum Kapitelanfang

Forme de la plaquette / Plattenform / Insert shape	Angle de dépouille de la plaquette / WSP-Freiwinkel / Insert clearance angle	Classe de tolérance / ToleranzKlasse / Tolerance class	Brise-copeau / Spanbrecher / Chip breaker		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

R



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

E

FN

EN

ENP

FL / FR

ELP / ERP

C = 7°

L

Ød

[mm]

C = 80°

D = 55°

V = 35°

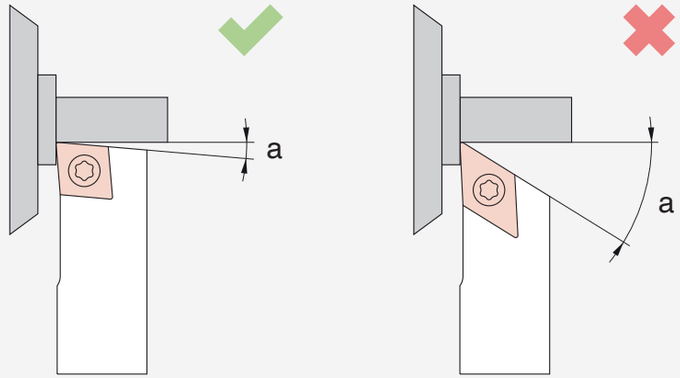
L	Ød [mm]
CC…06 DC…07 VC…11	6.350
VC…13	7.940
CC…09 DC…11 VC…16	9.525

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



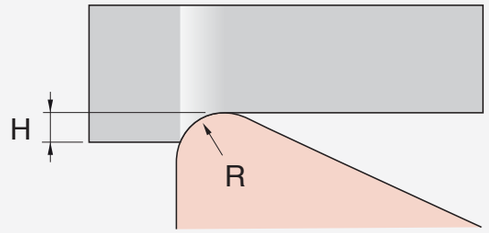
Proportion

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



Zurück zum Kapitelanfang

Géométries de coupe
Spanformgeometrien
Cutting geometries

G
tolerance class

ISO-Line

Plaquettes en métal dur rectifiées
VHM geschliffene WSP
Carbide ground inserts

Finishing

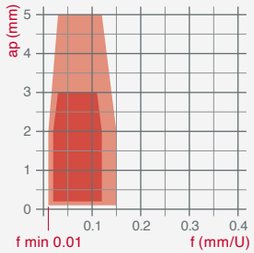
FN-X8



8°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



P ★★★★★
M ★★★★
N ★★★★
S ★★★

CCGT DCGT VCGT

p. 9.26 p. 9.45 p. 9.64

Semi-finishing
Finishing

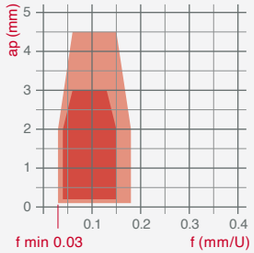
ENP-X8



8°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

Poli
Poliert
Polished



P ★★★★★
M ★★★
N ★★★
S ★★★

CCGT DCGT VCGT

p. 9.26 p. 9.45 p. 9.64

Finishing

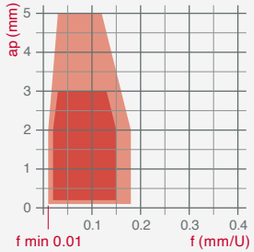
FN-X17



17°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



P ★★★
M ★★★★★
N ★★★★
S ★★★★★

CCGT DCGT VCGT

p. 9.27 p. 9.46 p. 9.65

Semi-finishing
Finishing

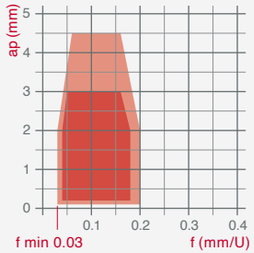
ENP-X17



17°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

Poli
Poliert
Polished



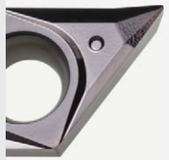
P ★★★
M ★★★★★
N ★★★
S ★★★★

CCGT DCGT VCGT

p. 9.27 p. 9.46 p. 9.65

Finishing

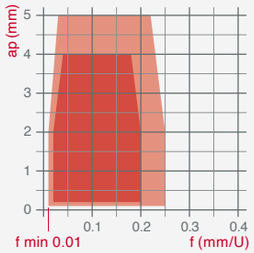
FN-X25



25°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



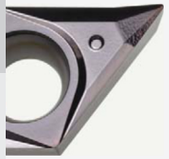
P
M ★★★
N ★★★★★
S ★★★★

CCGT DCGT VCGT

p. 9.28 p. 9.47 p. 9.66

Semi-finishing
Finishing

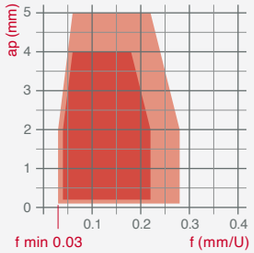
ENP-X25



25°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

Poli
Poliert
Polished



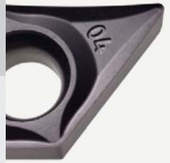
P
M ★★★
N ★★★★★
S ★★★★

CCGT DCGT VCGT

p. 9.28 p. 9.47 p. 9.66

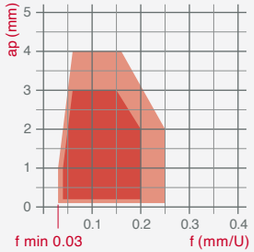
Semi-finishing
Finishing

ENP-X20



20°

Arête de coupe honée
Schneidkantenverrundung
Honed edge



P
M ★★★★★
N ★★★
S ★★★★★

CCGT DCGT VCGT

p. 9.29 p. 9.48 p. 9.67

Géométries de coupe
Spanformgeometrien
Cutting geometries

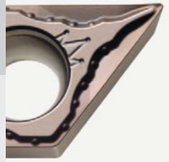
M
tolerance class

ISO-Line

Plaquettes en métal dur
VHM-Wendeplatten
Carbide inserts

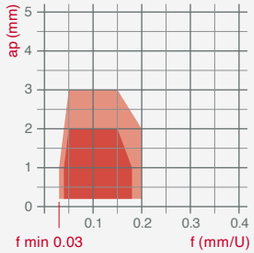
Semi-finishing
Finishing

EN-XF3



12°

Arête de coupe honée
Schneidkantenverrundung
Honed edge



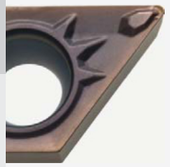
P	★★★★
M	★★★★★
N	★★★
S	★★★

CCMT DCMT VCMT

p. 9.30 p. 9.49 p. 9.68

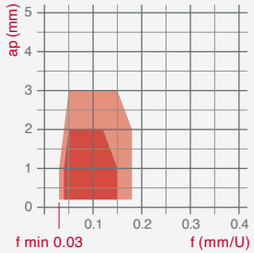
Semi-finishing
Finishing

EN-XF2



6°

Arête de coupe honée
Schneidkantenverrundung
Honed edge



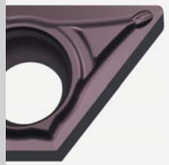
P	★★★★★
M	★★★
N	
S	★★★

CCMT DCMT VCMT

p. 9.30 p. 9.49 p. 9.68

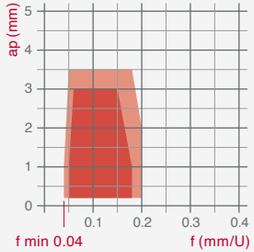
Semi-finishing

EN-MF2



8°

Arête de coupe honée
Schneidkantenverrundung
Honed edge



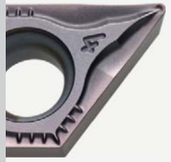
P	★★★★
M	★★★★
N	★★★
S	★★★

CCMT DCMT

p. 9.30 p. 9.49

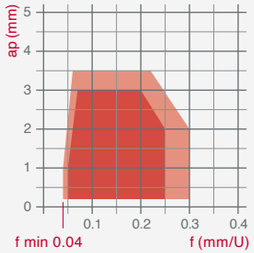
Semi-finishing

EN-MF



5°

Arête de coupe honée
Schneidkantenverrundung
Honed edge



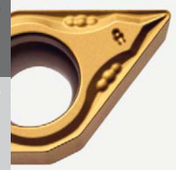
P	★★★★★
M	★★★
N	
S	

CCMT DCMT VCMT

p. 9.31 p. 9.50 p. 9.69

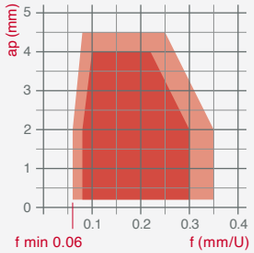
Roughing
Semi-finishing

EN-HF3



10°

Arête de coupe honée
Schneidkantenverrundung
Honed edge



P	★★★★★
M	★★★★★
N	
S	★★★

CCMT DCMT

p. 9.31 p. 9.50

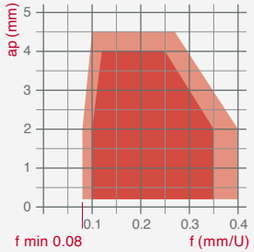
Roughing
Semi-finishing

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

FL/FR-X10

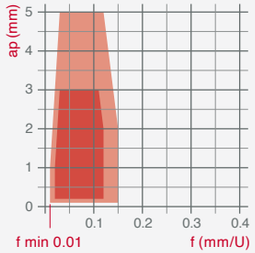
Super-finishing / Finishing



10°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



P ★★★★
M ★★★★★
N ★★★★
S ★★★★

VCGT

p. 9.62

ELP/ERP-X10

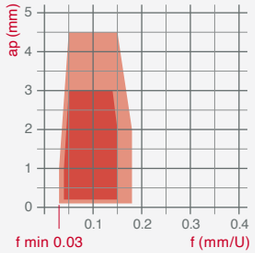
Semi-finishing / Finishing



10°

Arête de coupe honée
Schneidkantenverrundung
Honed edge

Poli
Poliert
Polished



P ★★★★★
M ★★★★
N ★★★
S ★★★

VCGT

p. 9.62

FN-K18

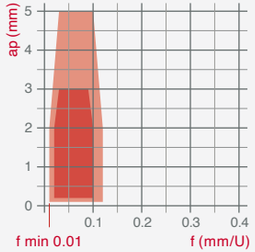
Super-finishing / Finishing



18°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



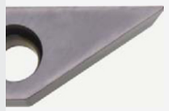
P ★★★★
M ★★★★★
N ★★★★
S ★★★★

VCGT

p. 9.63

FN-0

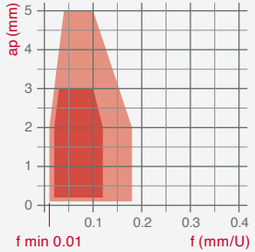
Finishing



0°

Arête de coupe vive
Scharfe Schneidkante
Sharp edge

Poli
Poliert
Polished



P ★★★
M
N ★★★
S

VCGW

p. 9.63

FN-X8 CERMET

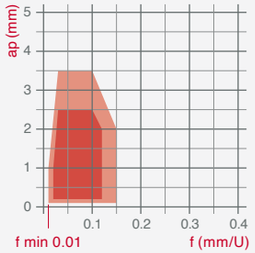
Finishing



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

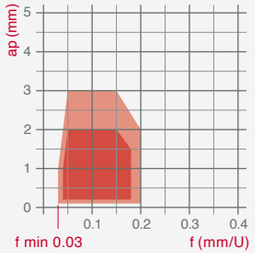
ENP-KX CERMET

Semi-finishing / Finishing



8°

Arête de coupe honée
Schneidkantenverrundung
Honed edge



P ★★★★★
M ★★★
N
S

CCGT p. 9.32
DCGT p. 9.51

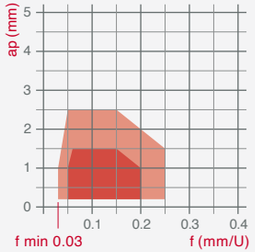
EN-KM CERMET

Semi-finishing



8°

Arête de coupe honée
Schneidkantenverrundung
Honed edge



P ★★★★★
M ★★★
N
S

CCMT p. 9.33
DCMT p. 9.52

Zurück zum Kapitelanfang

Nuances Sorten Grades	Domaine d'application Anwendungsbereich Application area	Finishing / light machining	Semi-finishing / medium cut	Roughing / heavymachining	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	Hardmaterials>50HRC, refractorymaterials, nickel-orcobalt-based, stainlesssteel, titaniumalloys
HST	★★★★ ★★★★ ★★★★★	●	●		X17	■■■■□	■■■□□	■■■■■	PVD	Hardmaterials>50HRC, refractorymaterials, nickel-orcobalt-based, stainlesssteel, titaniumalloys

Nuances Sorten Grades	Domaine d'application Anwendungsbereich Application area	Finishing / light machining	Semi-finishing / medium cut	Roughing / heavymachining	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	titaniumalloys,refractory materials,iron-,nickel-orcobalt-based,austenitic stainlesssteel
Carbide uncoated										
K10	★★★ ★★★	●			FN-X8 FN-X17 FN-X25 ELP-X10/ERP-X10 FN-K18 FN-0	■■■□□	■■■□□	■■□□□	uncoated	
K20	★★ ★★	●			FN/ENP-X8 FN/ENP-X17 FN/ENP-X25 ELP-X10/ERP-X10	■■□□□	■■■■□	■■□□□	uncoated	
CERMET										
CTA	★★★★★ ★★★	●			FN-X8	■■■■□	■■■■□	■■■■■	CERMET +PVD	
CT7	★★★★★ ★★★	●	●	●	ENP-KX EN-KM	■■■■□	■■■■□	■■■■■	CERMET + PVD	Easy wear out control with TiN top layer
HCT7	★★★★★ ★★★	●	●		ENP-KX EN-KM	■■■■■	■■■□□	■■■■■	CERMET + PVD	Easy wear out control with TiN top layer
CN6	★★★★	●			FN-X8 ENP-KX EN-KM	■■□□□	■■■■□	■■■■□	CERMET uncoated	

ISO-Line

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

ISO-Line Gtoleranceclass	Tough grade, for normal todifficult machiningconditions	Wear resistant grade, for finishing andlight machining	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					
			Acier dedécolletage Automatenstahl Free-cuttingsteel		Acier faiblement allié Leicht legierter Stahl Low alloyed steel		Acier fortement allié Hochlegierter Stahl High alloyed steel		Austénitique Austenitisch Austenitic		Martensitique Martensitisch Martensitic		Aluminium		Al-Si		Cuivre Kupfer Copper		Laiton & bronze Messing& Bronze Brass& bronze		Ti grade1- 3		Ti grade4- 6		Superalliages Superlegierungen Superalloys	
			VC(m/min)	F(mm/U)	VC(m/min)	F(mm/U)	VC(m/min)	F(mm/U)	VC(m/min)	F(mm/U)	VC(m/min)	F(mm/U)	VC(m/min)	F(mm/U)	VC(m/min)	F(mm/U)	VC(m/min)	F(mm/U)	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			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
	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									30-70	0.01-0.12	30-60	0.01-0.12	40-70	0.01-0.10
	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	120-2200	0.01-0.18	150-1600	0.01-0.15	80-300	0.01-0.12	100-400	0.01-0.15						
	K20	K10											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				
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			150-800	0.03-0.18	80-300	0.03-0.15					30-60	0.03-0.12	40-70	0.03-0.10
	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			150-800	0.03-0.18	80-300	0.03-0.15								
	K20														150-800	0.03-0.18	80-250	0.03-0.15								
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			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
	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									30-70	0.01-0.12	30-60	0.01-0.12	40-70	0.01-0.10
	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											40-80	0,01-0,08	40-80	0,01-0,08
	TiN		80-170	0.01-0.12					60-120	0.01-0.15	60-120	0.01-0.15	120-2200	0.01-0.25	150-1600	0.01-0.18	80-300	0.01-0.15	100-400	0.01-0.18						
	K20	K10											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				
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			150-800	0.03-0.20	80-300	0.03-0.18					30-70	0.03-0.15	40-80	0.03-0.12
	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											40-80	0,01-0,08	40-80	0,01-0,08
	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									30-70	0.01-0.12	30-60	0.01-0.12	40-70	0.01-0.10
	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			150-800	0.03-0.20	80-300	0.03-0.18								
	K20	K10													150-800	0.03-0.20	80-250	0.03-0.18								
FN-X25	TiAlN	HTA							60-140	0.01-0.12					150-1600	0.01-0.22	80-300	0.01-0.18					30-60	0.01-0.12	40-70	0.01-0.10
	TiN								60-120	0.01-0.12			120-2200	0.01-0.30	150-1600	0.01-0.22	80-300	0.01-0.18								
	K20	K10											120-2000	0.01-0.30	150-1500	0.01-0.22	80-250	0.01-0.18			30-70	0.01-0.12				
ENP-X25	TiAlN								60-140	0.03-0.12	60-140	0.03-0.15			150-800	0.03-0.25	80-300	0.03-0.20					30-60	0.03-0.12	40-70	0.03-0.10
	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									30-70	0.01-0.12	30-60	0.01-0.12	40-70	0.01-0.10
	TiN								60-120	0.03-0.12	60-120	0.03-0.15			150-800	0.03-0.25	80-300	0.03-0.20								
	K20														150-800	0.03-0.25	80-250	0.03-0.20								
ENP-X20	ZTA								60-140	0.03-0.18	60-140	0.03-0.18			150-800	0.03-0.25	80-300	0.03-0.20					40-90	0.03-0.15	40-100	0.03-0.15
		HTiX							60-140	0.03-0.18	60-140	0.03-0.18			150-800	0.03-0.25	80-300	0.03-0.20					40-80	0.03-0.15	40-90	0.03-0.15
Gtoleranceclass 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			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
	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									30-70	0.01-0.12	30-60	0.01-0.12	40-70	0.01-0.10
	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											40-80	0,01-0,08	40-80	0,01-0,08
	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	120-2200	0.01-0.20	150-1600	0.01-0.18	80-300	0.01-0.15	100-400	0.01-0.18						
	K20	K10											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				
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			150-1600	0.03-0.20	80-300	0.03-0.18					30-60	0.03-0.12	40-70	0.03-0.10
	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											30-60	0.03-0.12	40-70	0.03-0.10
	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											40-80	0,01-0,08	40-80	0,01-0,08
	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			150-1600	0.03-0.20	80-300	0.01-0.18								
	K20	K10													150-1500	0.03-0.20	80-250	0.01-0.18								
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			150-1600	0.01-0.12	80-300	0.01-0.10					30-70	0.01-0.10	40-80	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	120-2200	0.01-0.15	150-1600	0.01-0.12	80-300	0.01-0.10								
		K10											120-2000	0.01-0.15	150-1500	0.01-0.12	80-250	0.01-0.10			40-80	0.01-0.10				
FN-0		HTA	80-150	0.01-0.10															100-400	0.01-0.18						
		HTiN	80-140	0.01-0.10															100-400	0.01-0.18						
		K10																	100-300	0.01-0.18						

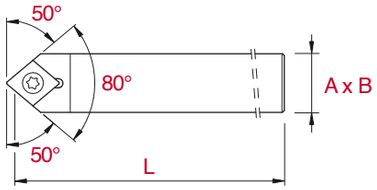
ISO-Line

Paramètres de coupe indicatifs
Empfohlene Schnittwerte
Standard machining data

ISO-Line Mtoleranceclass	Tough grade, for normal todifficult machiningconditions	Wear resistant grade, for finishing andlight machining	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					
			Acier dedécolletage Automatenstahl Free-cuttingsteel		Acier faiblement allié Leicht legierter Stahl Low alloyed steel		Acier fortement allié Hochlegierter Stahl High alloyed steel		Austénitique Austenitisch Austenitic		Martensitique Martensitisch Martensitic		Aluminium		Al-Si		Cuivre Kupfer Copper		Laiton & bronze Messing& Bronze Brass& bronze		Ti grade1- 3		Ti grade4- 6		Superalliages Superlegierungen Superalloys	
			VC(m/min)	F(mm/U)	VC(m/min)	F(mm/U)	VC(m/min)	F(mm/U)	VC(m/min)	F(mm/U)	VC(m/min)	F(mm/U)	VC(m/min)	F(mm/U)	VC(m/min)	F(mm/U)	VC(m/min)	F(mm/U)	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			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
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							100-400	0.03-0.18			30-70	0.03-0.15	40-80	0.03-0.12
		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			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
	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											40-80	0.05-0.12	40-80	0.05-0.12
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											30-70	0.06-0.20	40-80	0.06-0.20
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				



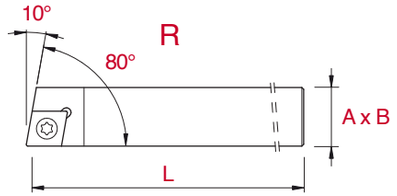


SCM

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

Zurück zum Kapitelanfang



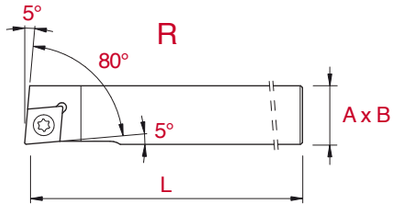


SCA

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

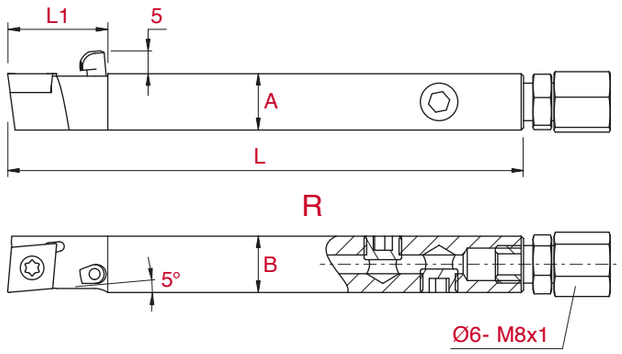


Plaquettes WSP Inserts	A x B	L	L Art. N°	R Art. N°
CC..-0602..	8 x 8	115	SCLCL-0808X-06	SCLCR-0808X-06
	10 x 10	115	SCLCL-1010X-06	SCLCR-1010X-06
	12 x 12	130	SCLCL-1212X-06	SCLCR-1212X-06
	12 x 12	90	SCLCL-1212G-06	SCLCR-1212G-06
	12.7 x 12.7	130	SCLCL-12.7X-06	SCLCR-12.7X-06
	16 x 16	130	SCLCL-1616X-06	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

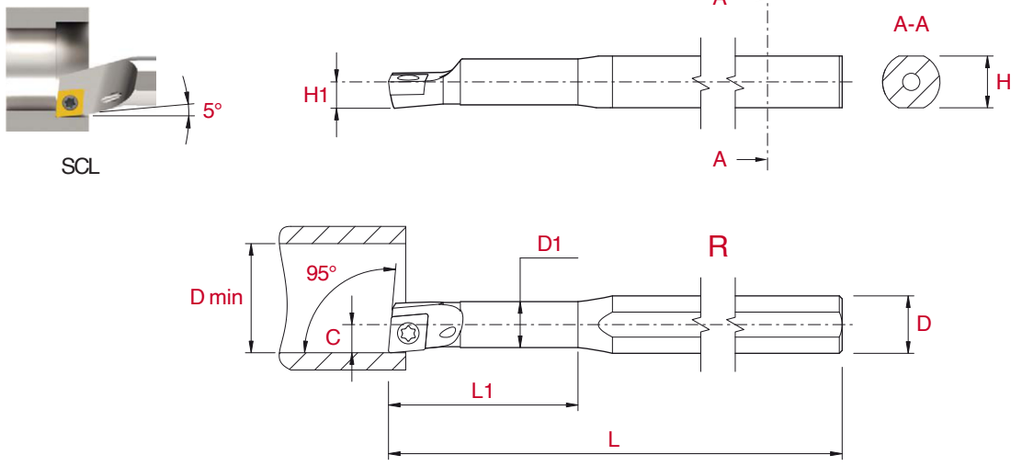
Zurück zum Kapitelanfang



SCL



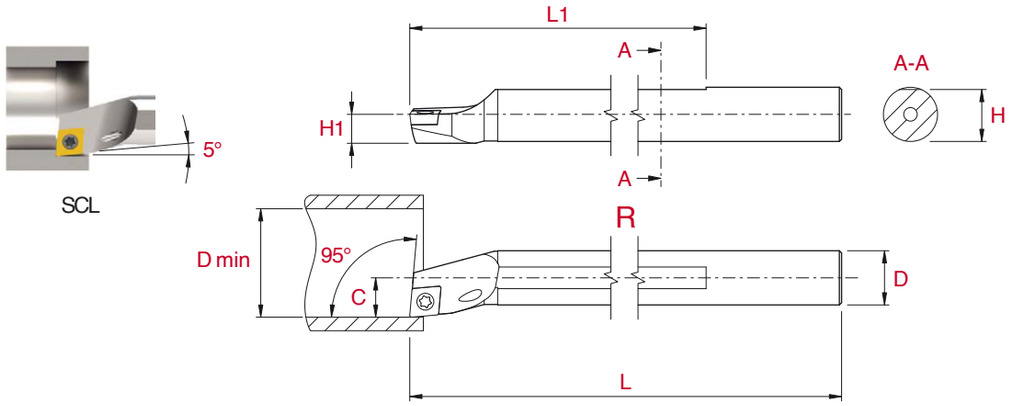
Plaquettes WSP Inserts	A x B	L	L1	L Art. N°	R Art. N°
CC..-0602..	10 x 10	110	21	SCLCL-1010J-06-JET	SCLCR-1010J-06-JET
	12 x 12	110	21	SCLCL-1212J-06-JET	SCLCR-1212J-06-JET
	12.7 x 12.7	110	21	SCLCL-12.7J-06-JET	SCLCR-12.7J-06-JET
	16 x 16	110	21	SCLCL-1616J-06-JET	SCLCR-1616J-06-JET
CC..-09T3..	12 x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



	Acier / Stahl / Steel								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

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

Zurück zum Kapitelanfang

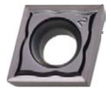


	Acier / Stahl / Steel							L	R
Plaquettes WSP Inserts	D	D min	C	H1	L	L1	H	Art. N°	Art. N°
CC..-0602	8	11	5	4	80	74	7.5	A08F-SCLCL-06	A08F-SCLCR-06
	10	13	7	5	100	85	9.5	A10H-SCLCL-06	A10H-SCLCR-06
	12	16	9	6	125	95	11.5	A12K-SCLCL-06	A12K-SCLCR-06
CC..-09T3	16	20	11	8	150	117	15.5	A16M-SCLCL-09	A16M-SCLCR-09

	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

Pour barres d'alésage / Für Borstange / For boring bar	Pièces de rechange / Ersatzteile / Spare parts	Options
	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





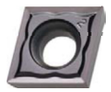
CCGT FN-X8

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









CCGT ENP-X8

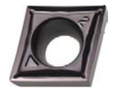
R	Art. N°	PVD TiAlN	PVD TiN	nonrevêtu unbeschichtet uncoated K20
0.05	CCGT-0602005-ENP-X8	●	●	●
0.1	CCGT-060201-ENP-X8	●	●	●
0.2	CCGT-060202-ENP-X8	●	●	●
0.4	CCGT-060204-ENP-X8	●	●	●
0.05	CCGT-09T3005-ENP-X8	●	●	●
0.1	CCGT-09T301-ENP-X8	●	●	●
0.2	CCGT-09T302-ENP-X8	●	●	●
0.4	CCGT-09T304-ENP-X8	●	●	●





Zurück zum Kapitelanfang

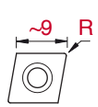




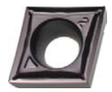
CCGT FN-X17

R	Art. N°	PVD ST	PVD TiAlN	PVD TiN	PVD HST	PVD HTA	nonrevêtu unbeschichtet uncoated K20	nonrevêtu unbeschichtet uncoated 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	●	●	●	●	●	●	●





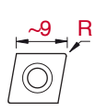




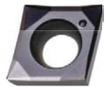
CCGT ENP-X17

R	Art. N°	PVD ST	PVD TiAlN	PVD TiN	nonrevêtu unbeschichtet uncoated 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	●		●	●





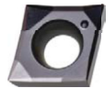




CCGT FN-X25

R	Art. N°	PVD TiAlN (P M N S)	PVD TiN (P M N)	PVD HTA (P M N S)	nonrevêtu unbeschichtet uncoated K20 (N)	nonrevêtu unbeschichtet uncoated K10 (N)
~6 R						
0.05	CCGT-0602005-FN-X25	●	●	●	●	●
0.1	CCGT-060201-FN-X25	●	●	●	●	●
0.2	CCGT-060202-FN-X25	●	●	●	●	●
0.4	CCGT-060204-FN-X25	●	●	●	●	●
~9 R						
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	●	●	●	●	●



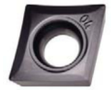


CCGT ENP-X25

R	Art. N°	PVD TiAlN (P M N S)	PVD TiN (P M N)	nonrevêtu unbeschichtet uncoated K20 (N)
~6 R				
0.05	CCGT-0602005-ENP-X25	●	●	●
0.1	CCGT-060201-ENP-X25	●	●	●
0.2	CCGT-060202-ENP-X25	●	●	●
0.4	CCGT-060204-ENP-X25	●	●	●
~9 R				
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	●	●	●

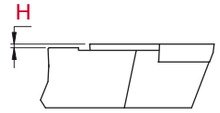
Zurück zum Kapitelanfang





CCGT ENP-X20

R	H	Art. N°	PVD ZTA (M N S)	PVD HTiX (M N S)
~6 R				
0.1	0.2	CCGT-060201-ENP-X20	●	
0.2	0.2	CCGT-060202-ENP-X20	●	●
0.4	0.2	CCGT-060204-ENP-X20	●	●
~9 R				
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
0.1	CCMT-060201-EN-XF3	●	●
0.2	CCMT-060202-EN-XF3	●	●
0.4	CCMT-060204-EN-XF3	●	●
0.1	CCMT-09T301-EN-XF3	●	●
0.2	CCMT-09T302-EN-XF3	●	●
0.4	CCMT-09T304-EN-XF3	●	●

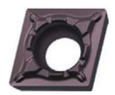




CCMT EN-XF2

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





CCMT EN-MF2

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

Zurück zum Kapitelanfang





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	●	●	●

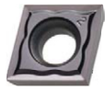




CCMT EN-HF

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	●	●	●	●	●

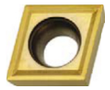




CCGT FN-X8

R	Art. N°	CERMET PVD CTA	CERMET nonrevêtu unbeschichtet uncoated CN6
0.05	CCGT-0602005-FN-X8	●	●
0.1	CCGT-060201-FN-X8	●	●
0.2	CCGT-060202-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-KX

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

Zurück zum Kapitelanfang

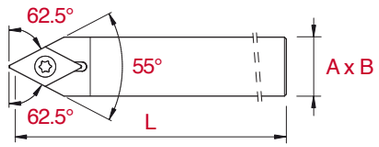




CCMT EN-KM

R	Art. N°	CERMET PVD CT7	CERMET PVD HCT7	CERMET nonrevêtu unbeschichtet uncoated CN6
0.2	CCMT-060202-EN-KM	●	●	●
0.4	CCMT-060204-EN-KM	●	●	●
0.2	CCMT-09T302-EN-KM	●	●	●
0.4	CCMT-09T304-EN-KM	●	●	●
0.8	CCMT-09T308-EN-KM	●	●	●

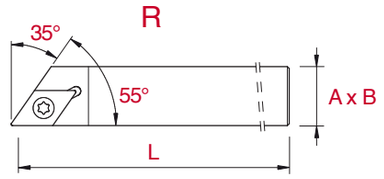




SDN

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



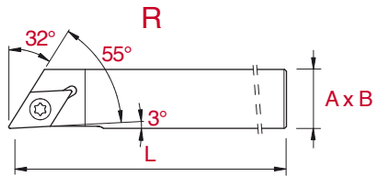


SDA

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

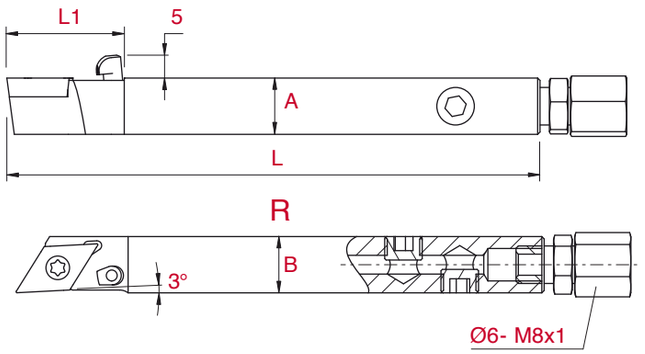


Plaquettes WSP Inserts	A x B	L	L Art. N°	R Art. N°
DC..-0702..	8 x 8	115	SDJCL-0808X-07	SDJCR-0808X-07
	10 x 10	115	SDJCL-1010X-07	SDJCR-1010X-07
	12 x 12	130	SDJCL-1212X-07	SDJCR-1212X-07
	12 x 12	90	SDJCL-1212G-07	SDJCR-1212G-07
	12.7 x 12.7	130	SDJCL-12.7X-07	SDJCR-12.7X-07
	16 x 16	130	SDJCL-1616X-07	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

Zurück zum Kapitelanfang



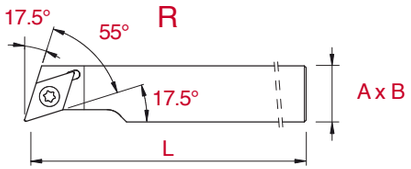
SDJ



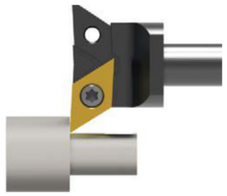
Plaquettes WSP Inserts	A x B	L	L1	L Art. N°	R Art. N°
DC..-0702..	10 x 10	110	20	SDJCL-1010J-07-JET	SDJCR-1010J-07-JET
	12 x 12	110	20	SDJCL-1212J-07-JET	SDJCR-1212J-07-JET
	12.7 x 12.7	110	20	SDJCL-12.7J-07-JET	SDJCR-12.7J-07-JET
	16 x 16	110	20	SDJCL-1616J-07-JET	SDJCR-1616J-07-JET
	20 x 20	110	20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



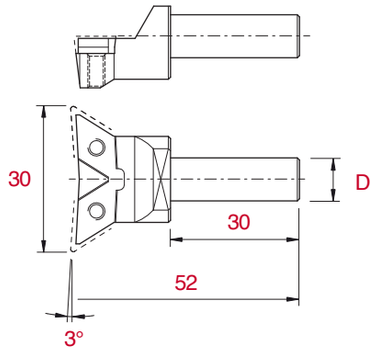
SDH



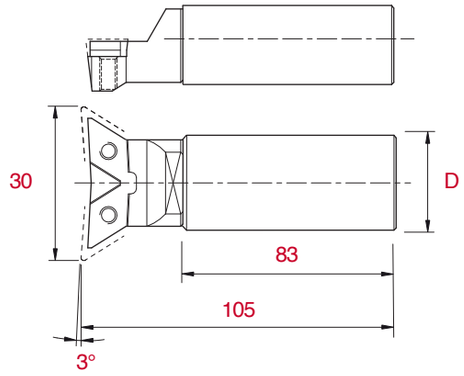
Plaquettes WSP Inserts	A x B	L	L Art. N°	R Art. N°
DC..-0702..	10 x 10	115	SDHCL-1010X-07	SDHCR-1010X-07
	12 x 12	130	SDHCL-1212X-07	SDHCR-1212X-07
	12 x 12	90	SDHCL-1212G-07	SDHCR-1212G-07
	12.7 x 12.7	130	SDHCL-12.7X-07	SDHCR-12.7X-07
	16 x 16	130	SDHCL-1616X-07	SDHCR-1616X-07
	16 x 16	75	SDHCL-1616F-07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



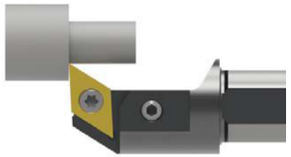
SDU



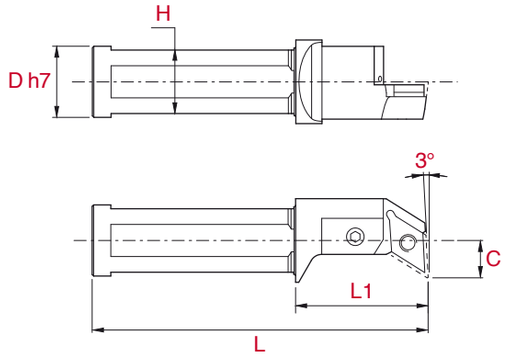
Plaquettes WSP Inserts	D	Art. N°
DC..-11T3..	10	SDUC-D10X-11



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

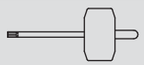


SDUCL

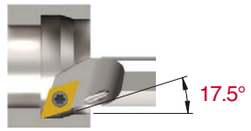


Plaquettes WSP Inserts	D	C	H	L	L1	Art. N°
DC..-11T3..	19.05	10	17	90	35.5	SDUCL-D19.05-90-11-JET
DC..-11T3..	20	10	17	90	35.5	SDUCL-D20-90-11-JET

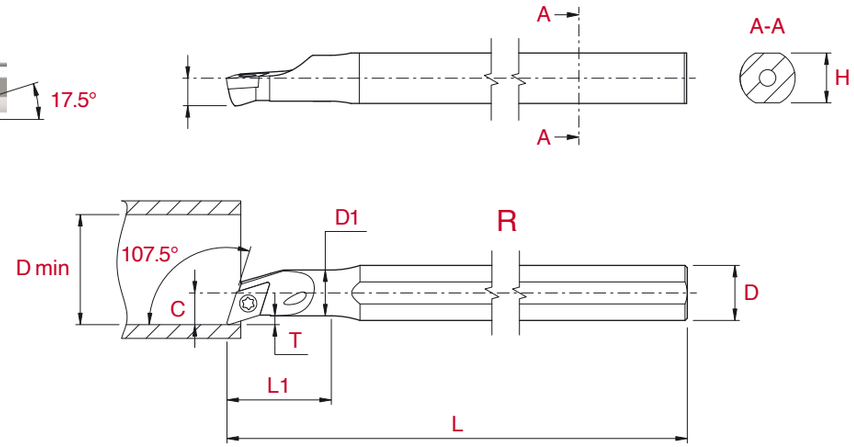
Pièces de rechange Ersatzteile Spare parts	
	
Art. N°	Art. N°
V-M4X9-T15	V-M5x5-BN24

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

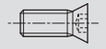
Zurück zum Kapitelanfang

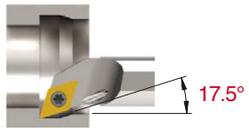


SDQ

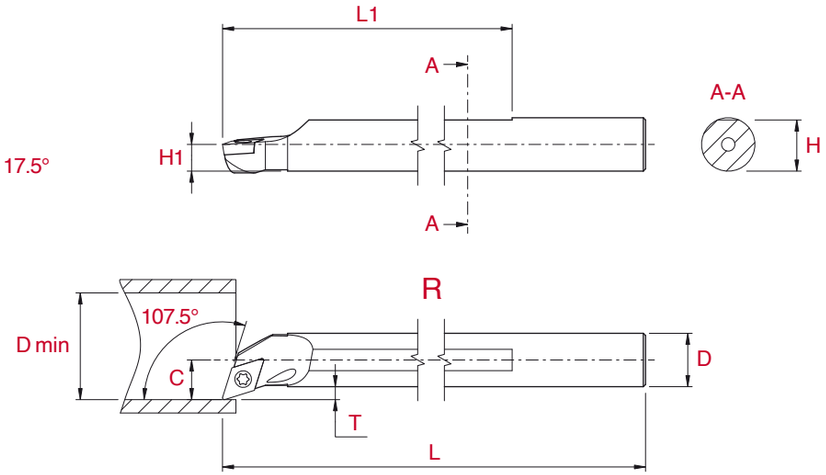


	Acier / Stahl / Steel									L	R
Plaquettes WSP Inserts	D	D min	D1	T	C	H1	L	L1	H	Art. N°	Art. N°
DC..-0702	10	12.5	8	2.4	7	5	100	22	9	A0810H-SDQCL-07	A0810H-SDQCR-07
	12	15.5	10	2.9	9	6	125	28	11	A1012K-SDQCL-07	A1012K-SDQCR-07

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

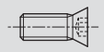
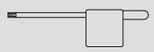


SDQ

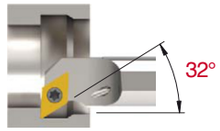


	Acier / Stahl / Steel								L	R
Plaquettes WSP Inserts	D	D min	T	C	H1	L	L1	H	Art. N°	Art. N°
DC..-0702	10	14	2.4	7	4.5	100	85	9.5	A10H-SDQCL-07	A10H-SDQCR-07
	12	17	2.9	9	6	125	95	11.5	A12K-SDQCL-07	A12K-SDQCR-07
	16	21	2.9	11	8	150	117	15.5	A16M-SDQCL-07	A16M-SDQCR-07

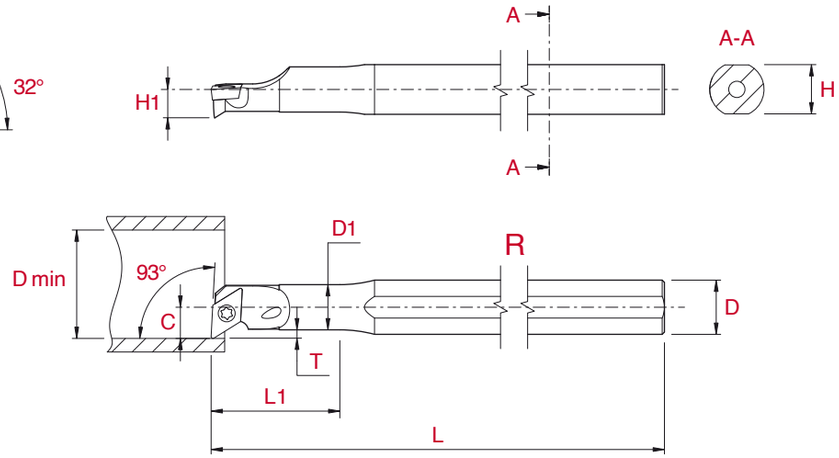
	Carbure de tungstène / Hartmetall / Solid carbide									
	D	D min	T	C	H1	L	L1	H	Art. N°	Art. N°
DC..-0702	10	13	2.4	7.5	5	125	-	9.5	E10K-SDQCL-07	E10K-SDQCR-07
	12	17	2.9	9	6	150	-	11.5	E12M-SDQCL-07	E12M-SDQCR-07

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

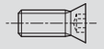
Zurück zum Kapitelanfang

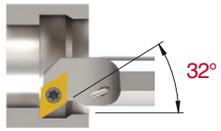


SDU

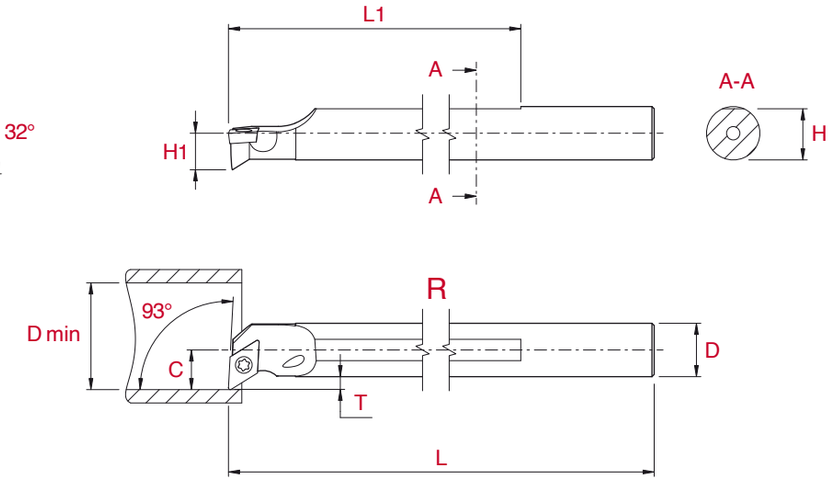


	Acier / Stahl / Steel									L	R
Plaquettes WSP Inserts	D	D min	D1	T	C	H1	L	L1	H	Art. N°	Art. N°
DC..-0702	10	12.5	8	1.9	7	5	100	22	9	A0810H-SDUCL-07	A0810H-SDUCR-07
	12	15.5	10	2.9	9	6	125	28	11	A1012K-SDUCL-07	A1012K-SDUCR-07

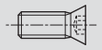
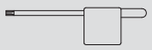
Pour barres d'alésage Für Borstange For boring bar	Pièces de rechange Ersatzteile Spare parts	Options
		
	Art. N°	Art. N°
A0810H_	V-M2.5X4.8-T8	C-T8
A1012K_	V-M2.5X5.8-T8	



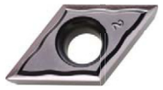
SDU



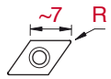
Acier / Stahl / Steel									L	R
Plaquettes WSP Inserts	D	D min	T	C	H1	L	L1	H	Art. N°	Art. N°
DC..-0702	10	14	1.9	7	5	100	85	9.5	A10H-SDUCL-07	A10H-SDUCR-07
	12	17	2.9	9	6	125	95	11.5	A12K-SDUCL-07	A12K-SDUCR-07
	16	21	2.9	11	8	150	117	15.5	A16M-SDUCL-07	A16M-SDUCR-07
Carbure de tungstène / Hartmetall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

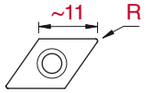
Pièces de rechange Ersatzteile Spare parts	Options
	
Art. N°	Art. N°
V-M2.5X5.8-T8	C-T8





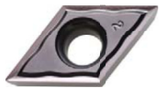
DCGT
FN-X8



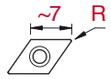


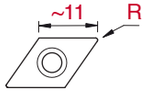
R	Art. N°	PVD TiAlN	PVD TiAlX	PVD TiN	PVD HTA	PVD HTAX	nonrevêtu unbeschichtet uncoated K20	nonrevêtu unbeschichtet uncoated K10
0.05	DCGT-0702005-FN-X8	●	●	●	●	●	●	●
0.08	DCGT-0702008-FN-X8	●	●		●	●	●	●
0.1	DCGT-070201-FN-X8	●	●	●	●	●	●	●
0.15	DCGT-0702015-FN-X8	●	●		●	●	●	●
0.2	DCGT-070202-FN-X8	●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





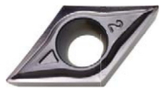
DCGT
ENP-X8





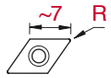
R	Art. N°	PVD TiAlN	PVD TiN	nonrevêtu unbeschichtet uncoated K20
0.05	DCGT-0702005-ENP-X8	●	●	●
0.08	DCGT-0702008-ENP-X8	●		●
0.1	DCGT-070201-ENP-X8	●	●	●
0.15	DCGT-0702015-ENP-X8	●		●
0.2	DCGT-070202-ENP-X8	●	●	●
0.4	DCGT-070204-ENP-X8	●	●	●
0.05	DCGT-11T3005-ENP-X8	●	●	●
0.08	DCGT-11T3008-ENP-X8	●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

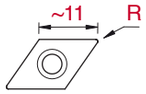




DCGT FN-X17

R	Art. N°	PVD ST	PVD TiAlN	PVD TiAlX	PVD TiN	PVD HST	PVD HTA	PVD HTAX	nonrevêtu unbeschichtet uncoated K20	nonrevêtu unbeschichtet uncoated 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	●	●	●	●	●	●	●	●	●



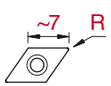


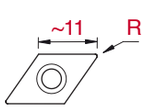




DCGT ENP-X17

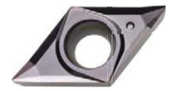
R	Art. N°	PVD ST	PVD TiAlN	PVD TiN	nonrevêtu unbeschichtet uncoated K20
0.05	DCGT-0702005-ENP-X17	●	●	●	●
0.08	DCGT-0702008-ENP-X17	●	●		●
0.1	DCGT-070201-ENP-X17	●	●	●	●
0.15	DCGT-0702015-ENP-X17	●	●		●
0.2	DCGT-070202-ENP-X17	●	●	●	●
0.4	DCGT-070204-ENP-X17	●	●	●	●
0.05	DCGT-11T3005-ENP-X17	●	●	●	●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





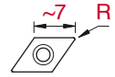
Zurück zum Kapitelanfang

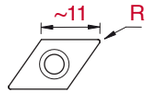




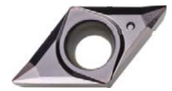
DCGT FN-X25

R	Art. N°	PVD TiAlN	PVD TiN	nonrevêtu unbeschichtet uncoated K20	nonrevêtu 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	●	●	●	●



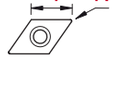


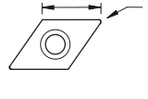




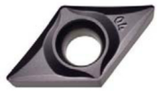
DCGT ENP-X25

R	Art. N°	PVD TiAlN	PVD TiAlX	PVD TiN	nonrevêtu 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	●	●	●	●



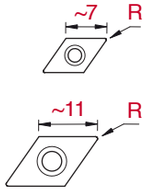


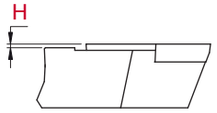




DCGT ENP-X20

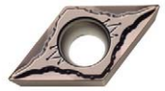
R	H	Art. N°	PVD ZTA	PVD HTiX
0.1	0.2	DCGT-070201-ENP-X20	●	
0.2	0.2	DCGT-070202-ENP-X20	●	●
0.4	0.2	DCGT-070204-ENP-X20	●	●
0.1	0.25	DCGT-11T301-ENP-X20	●	
0.2	0.25	DCGT-11T302-ENP-X20	●	●
0.4	0.25	DCGT-11T304-ENP-X20	●	●
0.8	0.25	DCGT-11T308-ENP-X20	●	●





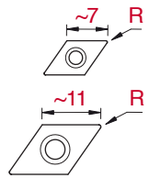
Zurück zum Kapitelanfang



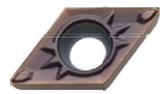


DCMT EN-XF3

R	Art. N°	PVD TAC	PVD 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	●	●

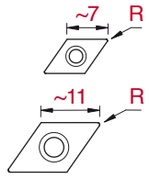






DCMT EN-XF2

R	Art. N°	PVD TAC	PVD HTAC	CVD 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	●	●	●

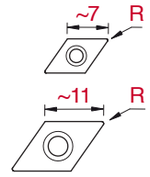




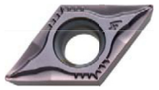


DCMT EN-MF2

R	Art. N°	PVD TAC	PVD HTAC	CVD Ti5	CVD 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	●	●	●	●

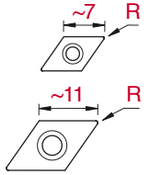






DCMT EN-MF

R	Art. N°	PVD Tmax	CVD Ti4	CVD 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	●	●	●

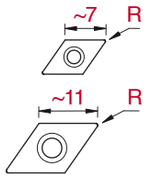






DCMT EN-HF3

R	Art. N°	PVD TiX	PVD HTiX	CVD 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	●	●	●

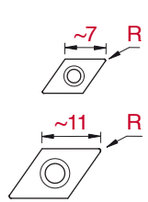






DCMT EN-HF

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



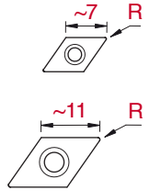
Zurück zum Kapitelanfang



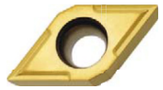


DCGT FN-X8

R	Art. N°	CERMET PVD CTA	CERMET nonrevêtu unbeschichtet uncoated CN6
0.05	DCGT-0702005-FN-X8	●	●
0.1	DCGT-070201-FN-X8	●	●
0.2	DCGT-070202-FN-X8	●	●
0.05	DCGT-11T3005-FN-X8	●	●
0.1	DCGT-11T301-FN-X8	●	●
0.2	DCGT-11T302-FN-X8	●	●
0.4	DCGT-11T304-FN-X8	●	●

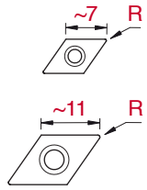




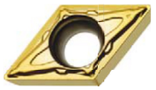


DCGT ENP-KX

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

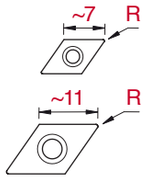






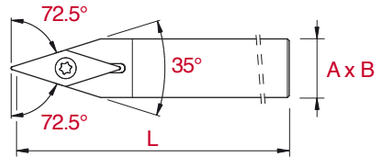
DCMT
EN-KM

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



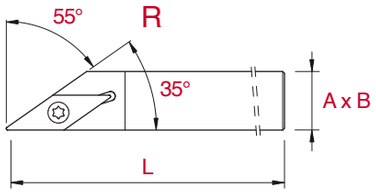


SVV



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



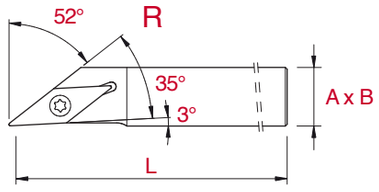


SVA

Plaquettes WSP Inserts	A x B	L	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

Zurück zum Kapitelanfang



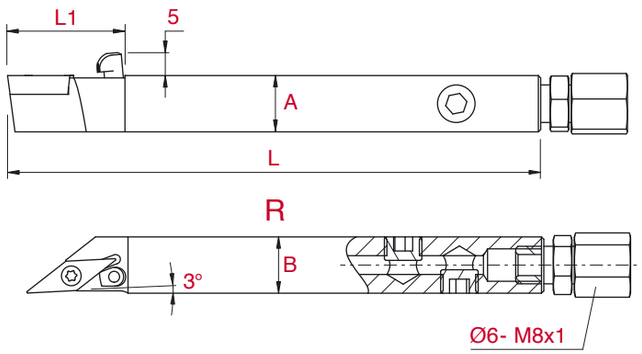


SVJ

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



SVJ

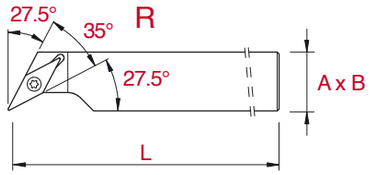


Plaquettes WSP Inserts	A x B	L	L1	L Art. N°	R Art. N°
VC..-1103..	10 x 10	110	21	SVJCL-1010J-11-JET	SVJCR-1010J-11-JET
	12 x 12	110	21	SVJCL-1212J-11-JET	SVJCR-1212J-11-JET
	12.7 x 12.7	110	21	SVJCL-12.7J-11-JET	SVJCR-12.7J-11-JET
	16 x 16	110	21	SVJCL-1616J-11-JET	SVJCR-1616J-11-JET
	20 x 20	110	21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

Zurück zum Kapitelanfang



SVX



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

35°

Porte-outils
Halter
Holders

Porte-outils compatibles avec plaquettes VCGTELP/ERP-FL/FR-X10°
Passende Halter zu den Wendeplatten VCGTELP/ERP-FL/FR-X10°
Holders compatible with inserts VCGTELP/ERP-FL/FR-X10°

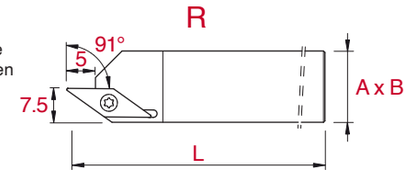
ISO-Line

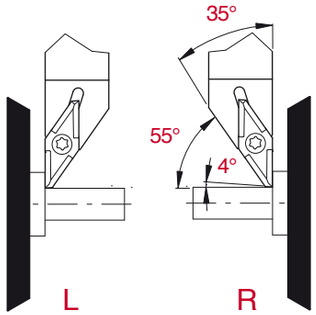
35°



SV-CL/R

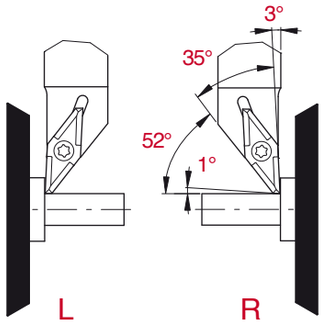
tournage arrière
rückwärts drehen
back turning



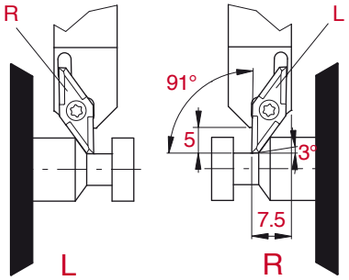


	Art. N°
R	SVACR-...-11
L	SVACL-...-11

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



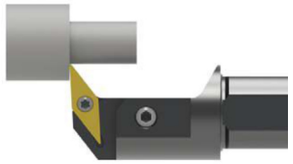
	Art. N°
R	SVJCR-...-11
L	SVJCL-...-11



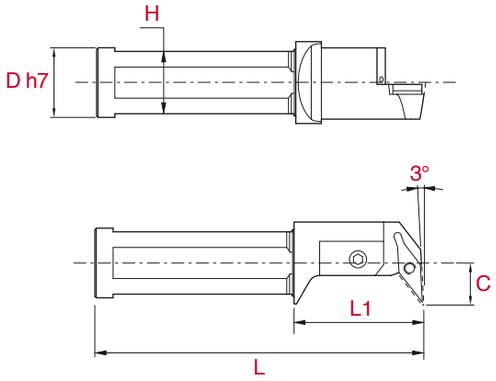
	Art. N°
R	SV-CR-...-11
L	SV-CL-...-11

Zurück zum Kapitelanfang

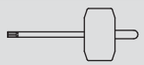
SVUCL-JET | 35° | Porte-outils avec arrosage intégré / Halter mit integrierter Kühlmittelzufuhr / Holders with integrated coolant supply



SVUCL

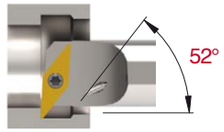


Plaquettes WSP Inserts	D	C	H	L	L1	Art. N°
VC..-1103..	19.05	10	17	90	35.5	SVUCL-D19.05-90-11-JET
VC..-1103..	20	10	17	90	35.5	SVUCL-D20-90-11-JET

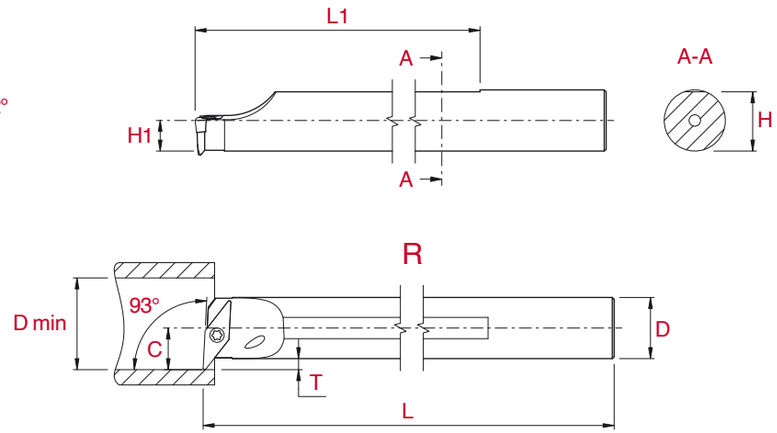
Pièces de rechange Ersatzteile Spare parts		Options	
			
Art. N°	Art. N°	Art. N°	Art. N°
V-M4X9-T15	V-M5x5-BN24	C-T15	JS-M5-D4

Zurück zum Kapitelanfang

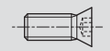
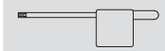
Porte-outils intérieurs / Innenhalter / Internal holders | 35° | A-SVUCR/L



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

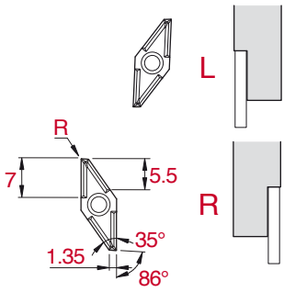
Pièces de rechange Ersatzteile Spare parts	Options
	
Art. N°	Art. N°
V-M2.5X5.8-T8	C-T8





VCGT FL / FR-X10

R	Art. N°	PVD ST	PVD TiAlN	PVD HTA	PVD TiAlX	PVD HTAX	PVD TiN	PVD HST	nonrevêtu unbeschichtet uncoated K10	nonrevêtu unbeschichtet uncoated 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	●	●	●	●	●	●	●	●	●

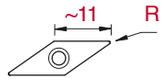






VCGT FN-K18

R	Art. N°	PVD HTA	PVD HTiN	nonrevêtu unbeschichtet uncoated K10
0.05	VCGT-1103005-FN-K18	●	●	●
0.1	VCGT-110301-FN-K18	●	●	●
0.2	VCGT-110302-FN-K18	●	●	●
0.4	VCGT-110304-FN-K18	●	●	●

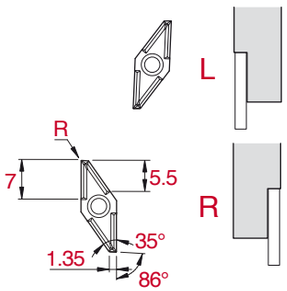






VCGT ELP/ERP-X10

R	Art. N°	PVD ST	PVD TiAlN	PVD HTA	PVD TiAlX	PVD HTAX	PVD TiN	nonrevêtu unbeschichtet uncoated K10	nonrevêtu unbeschichtet uncoated 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	●	●	●	●	●	●	●	●

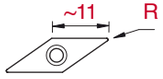






VCGW FN-0

R	Art. N°	PVD HTA	PVD HTiN	nonrevêtu unbeschichtet uncoated K10
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	PVD TiAlX	PVD TiN	PVD HTA	PVD HTAX	nonrevêtu K20	nonrevêtu K10
~11 R								
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	●	●	●	●	●	●	●
~13 R								
0.05	VCGT-1303005-FN-X8	●		●	●		●	●
0.1	VCGT-130301-FN-X8	●		●	●		●	●
0.2	VCGT-130302-FN-X8	●		●	●		●	●
0.4	VCGT-130304-FN-X8	●		●	●		●	●
~16 R								
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	PVD TiN	nonrevêtu K20
~11 R				
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	●	●	●
~13 R				
0.05	VCGT-1303005-ENP-X8	●		●
0.1	VCGT-130301-ENP-X8	●		●
0.2	VCGT-130302-ENP-X8	●		●
0.4	VCGT-130304-ENP-X8	●		●
~16 R				
0.05	VCGT-1604005-ENP-X8	●	●	●
0.1	VCGT-160401-ENP-X8	●	●	●
0.2	VCGT-160402-ENP-X8	●	●	●
0.4	VCGT-160404-ENP-X8	●	●	●

Zurück zum Kapitelanfang





VCGT FN-X17

R	Art. N°	PVD ST	PVD TiAlN	PVD TiN	PVD HST	PVD HTA	PVD HTAX	nonrevêtu K20	nonrevêtu K10
~11 R									
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	●	●	●	●	●	●	●	●
~13 R									
0.05	VCGT-1303005-FN-X17	●	●	●	●	●		●	●
0.1	VCGT-130301-FN-X17	●	●	●	●	●		●	●
0.2	VCGT-130302-FN-X17	●	●	●	●	●		●	●
0.4	VCGT-130304-FN-X17	●	●	●	●	●		●	●
~16 R									
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	nonrevêtu K20
~11 R					
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	●	●	●	●
~13 R					
0.05	VCGT-1303005-ENP-X17	●	●		●
0.1	VCGT-130301-ENP-X17	●	●		●
0.2	VCGT-130302-ENP-X17	●	●		●
0.4	VCGT-130304-ENP-X17	●	●		●
~16 R					
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 P M N S TiAlN	PVD P M N S TiN	PVD P M N S HTA	nonrevêtu unbeschichtet uncoated N K20	nonrevêtu unbeschichtet uncoated K10
~11 R						
0.05	VCGT-1103005-FN-X25	●	●	●	●	●
0.1	VCGT-110301-FN-X25	●	●	●	●	●
0.2	VCGT-110302-FN-X25	●	●	●	●	●
0.4	VCGT-110304-FN-X25	●	●	●	●	●
~13 R						
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	●	●	●	●	●
~16 R						
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 P M N S TiAlN	PVD P M N S TiAlX	PVD P M N S TiN	nonrevêtu unbeschichtet uncoated N K20
~11 R					
0.05	VCGT-1103005-ENP-X25	●	●	●	●
0.1	VCGT-110301-ENP-X25	●	●	●	●
0.2	VCGT-110302-ENP-X25	●	●	●	●
0.4	VCGT-110304-ENP-X25	●	●	●	●
~13 R					
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	●			●
~16 R					
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	●		●	●

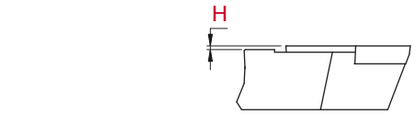
Zurück zum Kapitelanfang





VCGT ENP-X20

R	H	Art. N°	PVD M N S ZTA	PVD M N S HTiX
~13 R				
0.2	0.25	VCGT-130302-ENP-X20	●	●
0.4	0.25	VCGT-130304-ENP-X20	●	●
0.8	0.25	VCGT-130308-ENP-X20	●	●

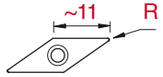






VCMT EN-XF3

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	●	●

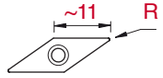


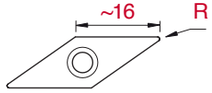




VCMT EN-XF2

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	●	●	●





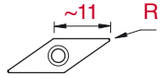
Zurück zum Kapitelanfang

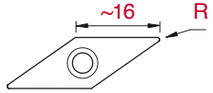




VCMT EN-MF

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



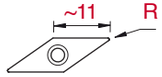


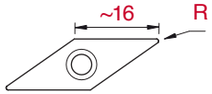




VCMT EN-HF

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

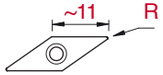








VCGT
FN-X8



R	Art. N°	CERMET PVD CTA	CERMET nonrevêtu 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	Options: Clédynamométrique Drehmomentschlüssel Torquewrench	Options: 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

	L Pour réf. Für Ref. For ref.	Art. N° *	Art. N° *	Art. N° *
Pièces de rechange JET Ersatzteile JET Spare parts JET	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		

* livréavec chaqueporte-outil
mit jedem Halter geliefert
delivered with each holder