

**Nouveautés présentées dans ce catalogue**  
**Neuheiten dieses Kataloges**  
**New products introduced in this catalogue**

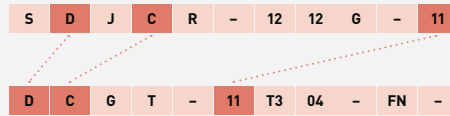


APPLITEC

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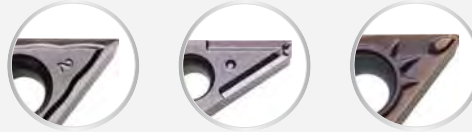
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Codification des outils ISO-Line  
ISO-Line Bezeichnungssystem  
ISO-Line designation system



> 7.02

Géométries de coupe  
Spanformgeometrien  
Cutting geometries



> 7.04

Nuances  
Sorten  
Grades



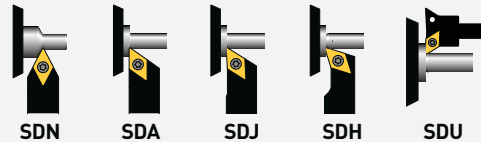
> 7.10

Porte-outils et plaquettes 80°  
Halter und WSP 80°  
Holders and inserts 80°



80° > 7.12

Porte-outils et plaquettes 55°  
Halter und WSP 55°  
Holders and inserts 55°



55° > 7.24

Porte-outils et plaquettes 35°  
Halter und WSP 35°  
Holders and inserts 35°



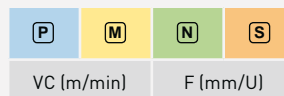
35° > 7.38

Pièces de rechange et accessoires  
Ersatzteile und Zubehör  
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> 7.53

Paramètres de coupe  
Schnittwerte  
Machining data



> 7.54

# ISO-LINE

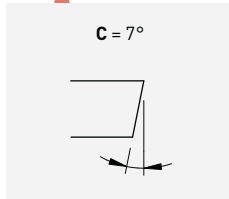
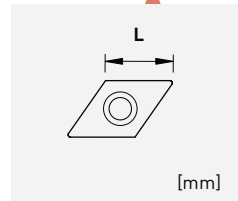
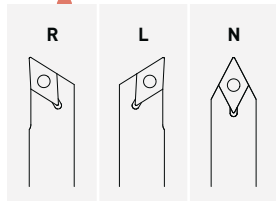
## Codification des porte-outils ISO-Line

## ISO-Line Bezeichnungssystem für Halter

## ISO-Line designation system for holders

Méthode de serrage Klemmsystem Clamping system	Forme de la plaquette Plattenform Insert shape	Géométrie du porte-outil Halteform Holder geometry	Angle de dépointe 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**

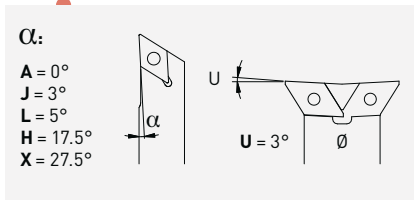


**A x B (or Ø) [mm]**

- 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)

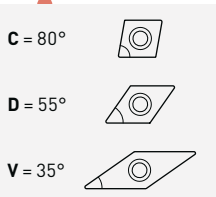
**Length: [mm]**

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



**α:**

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



**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	-

**Codification des plaquettes ISO-Line**  
**ISO-Line Bezeichnungssystem für WSP**  
**ISO-Line designation system for inserts**

D	C	G	T	-	11	T3	04	-	FN	-	X8															
Forme de la plaque Plattenform Insert shape	Angle de dépointe de la plaque WSP-Freiwinkel Insert clearance angle	Classe de tolérance Toleranz Klasse Tolerance class	Brise-copeau Spanbrecher Chip breaker		Dimension de la plaque (L) WSP Größe (L) Insert size (L)	Épaisseur de la plaque (E) WSP Dicke (E) Insert thickness (E)	Rayon de pointe de la plaque 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															
<b>C = 80°</b> 	<b>D = 55°</b> 				<table border="1"> <thead> <tr> <th>L</th> <th>Ø d [mm]</th> </tr> </thead> <tbody> <tr> <td>CC...<b>06</b></td> <td></td> </tr> <tr> <td>DC...<b>07</b></td> <td>6,350</td> </tr> <tr> <td>VC... <b>11</b></td> <td></td> </tr> <tr> <td>VC... <b>13</b></td> <td>7,940</td> </tr> <tr> <td>CC...<b>09</b></td> <td></td> </tr> <tr> <td>DC... <b>11</b></td> <td>9,525</td> </tr> <tr> <td>VC... <b>16</b></td> <td></td> </tr> </tbody> </table>	L	Ø d [mm]	CC... <b>06</b>		DC... <b>07</b>	6,350	VC... <b>11</b>		VC... <b>13</b>	7,940	CC... <b>09</b>		DC... <b>11</b>	9,525	VC... <b>16</b>						
L	Ø d [mm]																									
CC... <b>06</b>																										
DC... <b>07</b>	6,350																									
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VC... <b>13</b>	7,940																									
CC... <b>09</b>																										
DC... <b>11</b>	9,525																									
VC... <b>16</b>																										

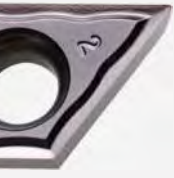

Géométries de coupe  
Spanformgeometrien  
Cutting geometries

**G**  
tolerance class

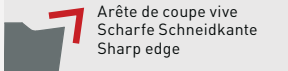
Plaquettes en métal dur rectifiées  
VHM geschliffene WSP  
Carbide ground inserts

**Finishing**

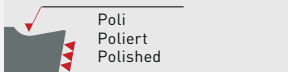
**FN-X8**

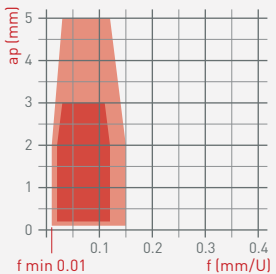
8°



Arête de coupe vive  
Scharfe Schneidkante  
Sharp edge




Poli  
Poliert  
Polished



P	★★★★★
M	★★★★
N	★★★
S	★★★

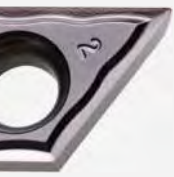

CCGT DCGT VCGT



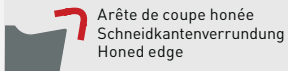
p. 7.16 p. 7.30 p. 7.46

**Semi-finishing**

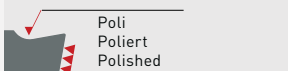
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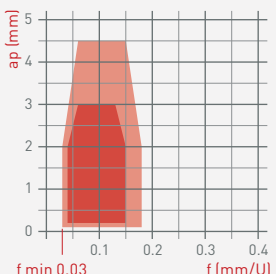
8°



Arête de coupe honée  
Schneidkantenverrundung  
Honed edge




Poli  
Poliert  
Polished



P	★★★★★
M	★★★
N	★★★
S	★★★

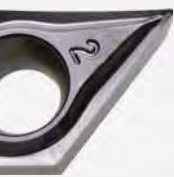

CCGT DCGT VCGT



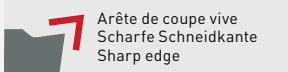
p. 7.16 p. 7.30 p. 7.46

**Finishing**

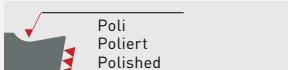
**FN-X17**

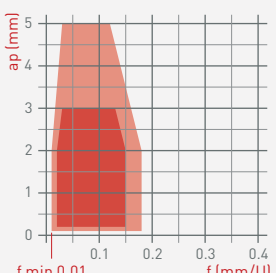
17°



Arête de coupe vive  
Scharfe Schneidkante  
Sharp edge




Poli  
Poliert  
Polished



P	★★★
M	★★★★★
N	★★★★★
S	★★★★★



CCGT DCGT VCGT



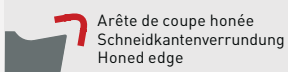
p. 7.17 p. 7.31 p. 7.47

**Semi-finishing**

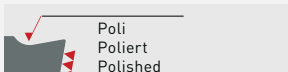
**ENP-X17**

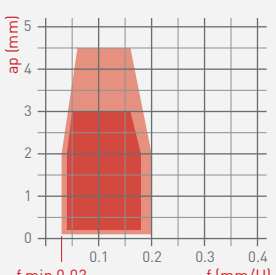
17°



Arête de coupe honée  
Schneidkantenverrundung  
Honed edge




Poli  
Poliert  
Polished



P	★★★
M	★★★★★
N	★★★
S	★★★★★

CCGT DCGT VCGT



p. 7.17 p. 7.31 p. 7.47

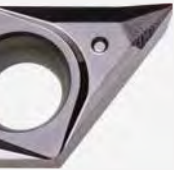
Géométries de coupe  
Spanformgeometrien  
Cutting geometries

**G**  
tolerance class

Plaquettes en métal dur rectifiées  
VHM geschliffene WSP  
Carbide ground inserts

**Finishing**

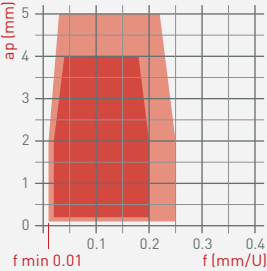
**FN-X25**



**25°**

Arête de coupe vive  
Scharfe Schneidkante  
Sharp edge

Poli  
Poliert  
Polished



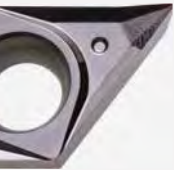
P	
M	★★★
N	★★★★★
S	★★★★★

CCGT DCGT VCGT

p. 7.18 p. 7.32 p. 7.48

**Semi-finishing**

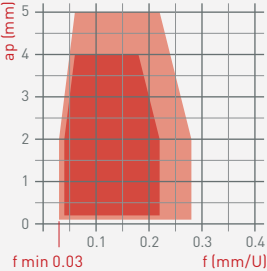
**ENP-X25**



**25°**

Arête de coupe honée  
Schneidkantenverrundung  
Honed edge

Poli  
Poliert  
Polished




P	
M	★★★
N	★★★★★
S	★★★★★

CCGT DCGT VCGT

p. 7.18 p. 7.32 p. 7.48

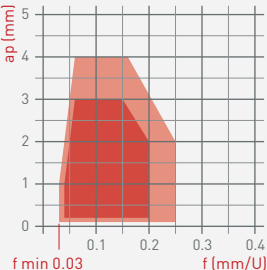
**Semi-finishing**

**ENP-X20**



**20°**

Arête de coupe honée  
Schneidkantenverrundung  
Honed edge



P	
M	★★★★★
N	★★★
S	★★★★★

CCGT DCGT VCGT

p. 7.19 p. 7.33 p. 7.49

# ISO-LINE

Géométries de coupe  
Spanformgeometrien  
Cutting geometries

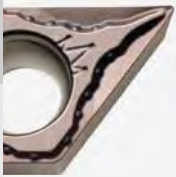

**M**  
tolerance class

Plaquettes en métal dur  
VHM-Wendeplatten  
Carbide inserts

**EN-XF3**

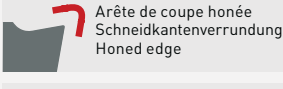
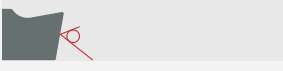
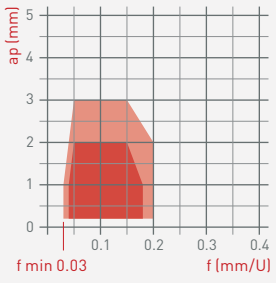
Semi-finishing

Finishing

12°

Arête de coupe honée  
Schneidkantenverrundung  
Honed edge


ap (mm)

f (mm/U)

f min 0.03

P	★★★★★
M	★★★★★
N	★★★
S	★★★

CCMT DCMT VCMT





p. 7.20 p. 7.34 p. 7.50

**EN-XF2**

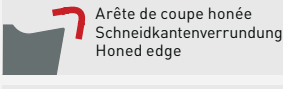
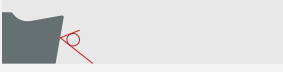
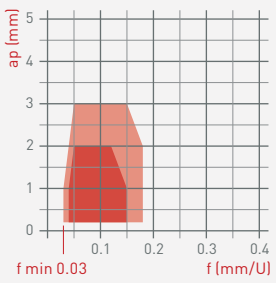
Semi-finishing

Finishing

6°

Arête de coupe honée  
Schneidkantenverrundung  
Honed edge


ap (mm)

f (mm/U)

f min 0.03

P	★★★★★
M	★★★
N	
S	★★★



CCMT DCMT VCMT



p. 7.20 p. 7.34 p. 7.50

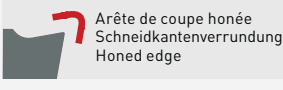
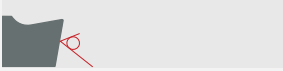
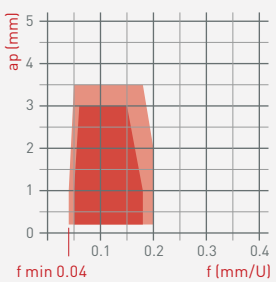
**EN-MF2**

Semi-finishing

8°

Arête de coupe honée  
Schneidkantenverrundung  
Honed edge


ap (mm)

f (mm/U)

f min 0.04

P	★★★★★
M	★★★★★
N	★★★
S	★★★

CCMT DCMT



p. 7.20 p. 7.34

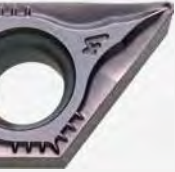
Géométries de coupe  
Spanformgeometrien  
Cutting geometries

**M**  
tolerance class

Plaquettes en métal dur  
VHM-Wendepplatten  
Carbide inserts

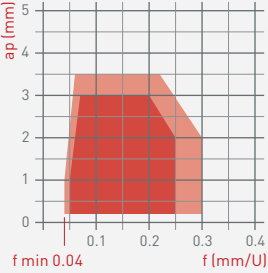
**EN-MF**

Semi-finishing



5°

Arête de coupe honée  
Schneidkantenverrundung  
Honed edge



ap (mm)

f (mm/U)

f min 0.04

P	★★★★★
M	★★★
N	
S	


CCMT DCMT VCMT

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**EN-HF3**

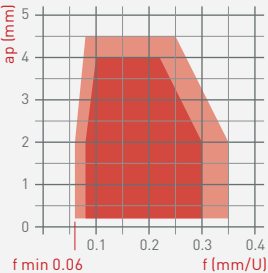
Roughing

Semi-finishing



10°

Arête de coupe honée  
Schneidkantenverrundung  
Honed edge



ap (mm)

f (mm/U)

f min 0.06

P	★★★★★
M	★★★★★
N	
S	★★★


CCMT DCMT

p. 7.21 p. 7.35

**EN-HF**

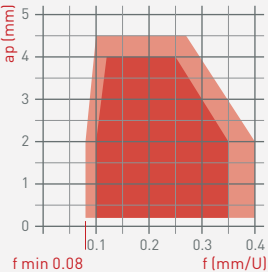
Roughing

Semi-finishing



12°

Arête de coupe honée  
Schneidkantenverrundung  
Honed edge



ap (mm)

f (mm/U)

f min 0.08

P	★★★★★
M	★★★★★
N	
S	

CCMT DCMT VCMT

p. 7.21 p. 7.35 p. 7.51




# ISO-LINE

Géométries de coupe  
Spanformgeometrien  
Cutting geometries

**G**  
tolerance class

Plaquettes en métal dur rectifiées  
VHM geschliffene WSP  
Carbide ground inserts

**Super-finishing**  
**FL/FR-X10**

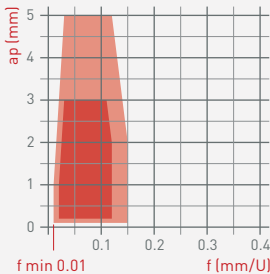


**10°**

**Finishing**

Arête de coupe vive  
Scharfe Schneidkante  
Sharp edge

Poli  
Poliert  
Polished




ap (mm)

f min 0.01 f (mm/U)


P	★★★★★
M	★★★★★
N	★★★★★
S	★★★★★

VCGT



p. 7.44

**Semi-finishing**  
**ELP/ERP-X10**

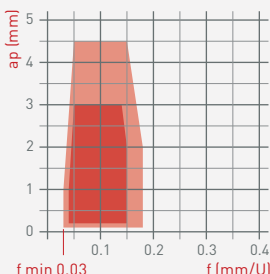


**10°**

**Finishing**

Arête de coupe honée  
Schneidkantenverrundung  
Honed edge

Poli  
Poliert  
Polished




ap (mm)

f min 0.03 f (mm/U)


P	★★★★★
M	★★★★★
N	★★★
S	★★★

VCGT



p. 7.44

**Super-finishing**  
**FN-K18**

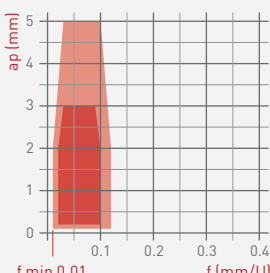


**18°**

**Finishing**

Arête de coupe vive  
Scharfe Schneidkante  
Sharp edge

Poli  
Poliert  
Polished




ap (mm)

f min 0.01 f (mm/U)


P	★★★★★
M	★★★★★
N	★★★★★
S	★★★★★

VCGT



p. 7.45

**Finishing**  
**FN-0**

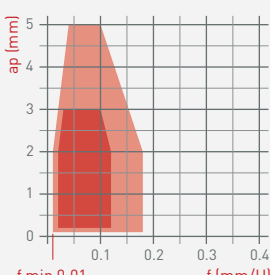


**0°**

**Finishing**

Arête de coupe vive  
Scharfe Schneidkante  
Sharp edge

Poli  
Poliert  
Polished




ap (mm)

f min 0.01 f (mm/U)

P	★★★
M	
N	★★★
S	

VCGW



p. 7.45

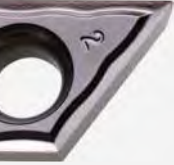
Géométries de coupe  
Spanformgeometrien  
Cutting geometries

G/M  
tolerance class

CERMET

**Finishing**

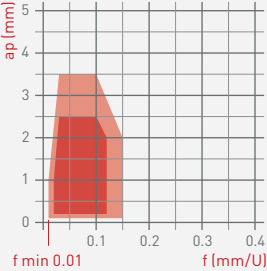
**FN-X8 CERMET**



8°

Arête de coupe vive  
Scharfe Schneidkante  
Sharp edge

Poli  
Poliert  
Polished



ap (mm)

f (mm/U)

f min 0.01

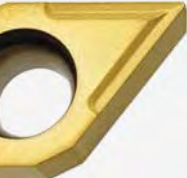
P	★★★★★
M	★★★
N	
S	

CCGT DCGT VCGT

p. 7.22 p. 7.36 p. 7.52

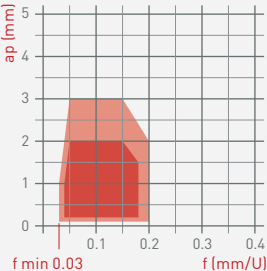
**Semi-finishing**

**ENP-KX CERMET**



8°

Arête de coupe honée  
Schneidkantenverrundung  
Honed edge



ap (mm)

f (mm/U)

f min 0.03

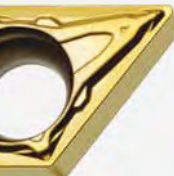
P	★★★★★
M	★★★
N	
S	

CCGT DCGT

p. 7.22 p. 7.36

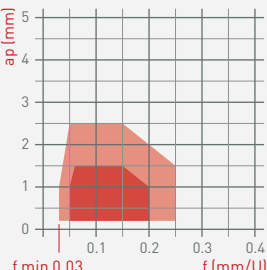
**Semi-finishing**

**EN-KM CERMET**



8°

Arête de coupe honée  
Schneidkantenverrundung  
Honed edge



ap (mm)

f (mm/U)

f min 0.03

P	★★★★★
M	★★★
N	
S	

CCMT DCMT

p. 7.23 p. 7.37

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
<b>Carbide + PVD</b>										
<b>TiAlN</b>	★★★★★ ★★★★★ ★★★★★ ★★★★	■	■	■	FN/ENP-X8 FN/ENP-X17 FN/ENP-X25 L/R-X10	■■■■■□	■■■■■□	■■■■■□	PVD	
<b>HTA</b>	★★★★★ ★★★★★ ★★★★★ ★★★★	■			FN-X8 FN-X17 FN-X25 L/R-X10 FN-K18 FN-0	■■■■■	■■■■■□	■■■■■□	PVD	
<b>TiN</b>	★★★★ ★★★★ ★★★★★	■	■	■	FN/ENP-X8 FN/ENP-X17 FN/ENP-X25 L/R-X10	■■■■□□	■■■■■□	■■■■□□	PVD	High resistance to edge build up
<b>HTiN</b>	★★★★ ★★★★ ★★★★★	■			FN-K18 FN-0	■■■■■□	■■■■■□	■■■■□□	PVD	High resistance to edge build up
<b>TAC</b>	★★★★★ ★★★★★ ★★★★★ ★★★★	■	■	■	EN-XF3 EN-XF2 EN-MF2 EN-HF	■■■■■□	■■■■■□	■■■■■□	PVD	
<b>HTAC</b>	★★★★★ ★★★★★ ★★★★★ ★★★★	■	■		EN-XF3 EN-XF2 EN-MF2	■■■■■	■■■■■□	■■■■■□	PVD	
<b>TiX</b>	★★★★★ ★★★★★ ★★★★			■	EN-HF3	■■■■□□	■■■■■□	■■■■□□	PVD	Easy wear out control with TiN top layer
<b>HTiX</b>	★★★★★ ★★★★★ ★★★★★ ★★★★	■	■		ENP-X20 EN-HF3	■■■■■□	■■■■■□	■■■■□□	PVD	Easy wear out control with TiN top layer
<b>Tmax</b>	★★★★★ ★★★★★ ★★★★★ ★★★★	■	■		EN-MF EN-HF	■■■■■□	■■■■■□	■■■■■□	PVD	
<b>ZTA</b>	★★★★★ ★★★★★ ★★★★★	■	■		ENP-X20	■■■■■□	■■■■■□	■■■■■□	PVD	perfect for titanium alloys & superalloys
<b>TiAlX</b>	★★★★ ★★★★ ★★★★	■	■		R-X10	■■■■■□	■■■■■□	■■■■■□	PVD	perfect for titanium alloys & superalloys
<b>HTAX</b>	★★★★ ★★★★ ★★★★	■			R-X10	■■■■■	■■■■■□	■■■■■□	PVD	perfect for titanium alloys & superalloys

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
<b>Carbide + CVD</b>										
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	
<b>Carbide uncoated</b>										
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	
<b>CERMET</b>										
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

Outils de tournage 80°

80°-Drehwerkzeuge

Turning tools 80°

80°



SCM



SCA



SCL

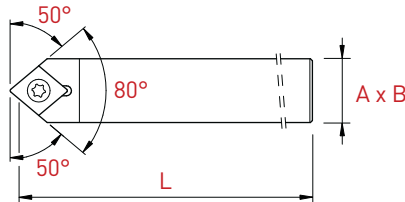
Porte-outils

Halter

Holder

80°

SCM



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

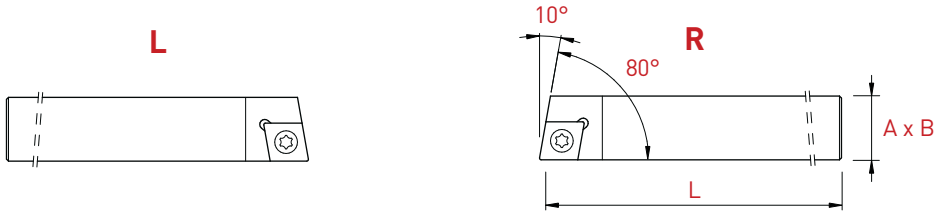
Porte-outils

Halter

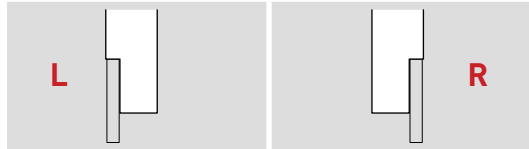
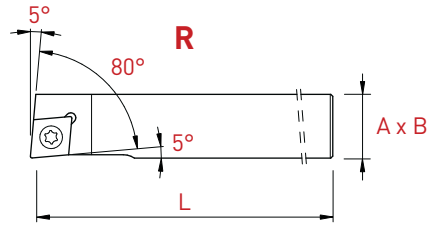
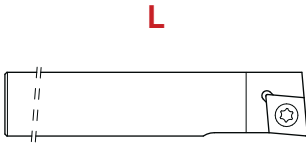
Holders

80°

SCA



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

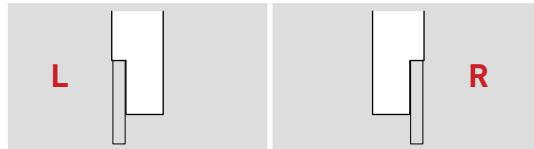
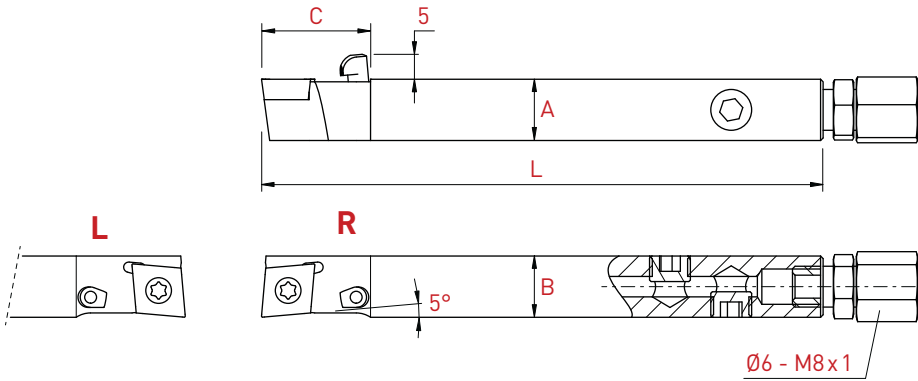


Plaquettes WSP Inserts	A x B x L	Art. N°	Art. N°
CC..-0602..	8 x 8 x 115	SCLCL-0808X-06	SCLCR-0808X-06
	10 x 10 x 115	SCLCL-1010X-06	SCLCR-1010X-06
	12 x 12 x 130	SCLCL-1212X-06	SCLCR-1212X-06
	12 x 12 x 90	SCLCL-1212G-06	SCLCR-1212G-06
	12.7 x 12.7 x 130	SCLCL-12.7-X-06	SCLCR-12.7-X-06
	16 x 16 x 130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

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

80°

SCL-JET



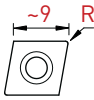
Plaquettes WSP Inserts	A x B x L	C	Art. N°	Art. N°
CC...-0602..	10 x 10 x 110	21	SCLCL-1010J-06-JET	SCLCR-1010J-06-JET
	12 x 12 x 110	21	SCLCL-1212J-06-JET	SCLCR-1212J-06-JET
	12.7 x 12.7 x 110	21	SCLCL-12.7-J-06-JET	SCLCR-12.7-J-06-JET
	16 x 16 x 110	21	SCLCL-1616J-06-JET	SCLCR-1616J-06-JET
CC...-09T3..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





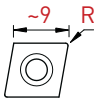
CCGT  
FN-X8

R	Art. N°	PVD			non revêtu unbeschichtet uncoated	
		TiAlN	HTA	TiN	K10	K20
		P M N S	P M N S	P M N	<input type="checkbox"/>	<input type="checkbox"/>
0.05	CCGT-0602005-FN-X8	■	■	■	■	■
0.1	CCGT-060201-FN-X8	■	■	■	■	■
0.2	CCGT-060202-FN-X8	■	■	■	■	■
0.4	CCGT-060204-FN-X8	■	■	■	■	■
0.05	CCGT-09T3005-FN-X8	■	■	■	■	■
0.1	CCGT-09T301-FN-X8	■	■	■	■	■
0.2	CCGT-09T302-FN-X8	■	■	■	■	■
0.4	CCGT-09T304-FN-X8	■	■	■	■	■



CCGT  
ENP-X8

R	Art. N°	PVD		non revêtu unbeschichtet uncoated
		TiAlN	TiN	K20
		P M N S	P M N	<input type="checkbox"/> <input type="checkbox"/> N <input type="checkbox"/>
0.05	CCGT-0602005-ENP-X8	■	■	■
0.1	CCGT-060201-ENP-X8	■	■	■
0.2	CCGT-060202-ENP-X8	■	■	■
0.4	CCGT-060204-ENP-X8	■	■	■
0.05	CCGT-09T3005-ENP-X8	■	■	■
0.1	CCGT-09T301-ENP-X8	■	■	■
0.2	CCGT-09T302-ENP-X8	■	■	■
0.4	CCGT-09T304-ENP-X8	■	■	■



Plaquettes en métal dur  
VHM-Wendeplatten  
Solid carbide inserts

80°

CCGT-X17



CCGT  
FN-X17

R	Art. N°	PVD			non revêtu unbeschichtet uncoated	
		TiAlN	HTA	TiN	K10	K20
0.05	CCGT-0602005-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.1	CCGT-060201-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.2	CCGT-060202-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.4	CCGT-060204-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.05	CCGT-09T3005-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.1	CCGT-09T301-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.2	CCGT-09T302-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.4	CCGT-09T304-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.8	CCGT-09T308-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



CCGT  
ENP-X17

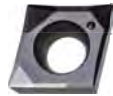
R	Art. N°	PVD		non revêtu unbeschichtet uncoated
		TiAlN	TiN	K20
0.05	CCGT-0602005-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.1	CCGT-060201-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.2	CCGT-060202-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.4	CCGT-060204-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.05	CCGT-09T3005-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.1	CCGT-09T301-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.2	CCGT-09T302-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.4	CCGT-09T304-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.8	CCGT-09T308-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>





CCGT  
FN-X25

R	Art. N°	PVD			non revêtu unbeschichtet uncoated	
		TiAlN	HTA	TiN	K10	K20
0.05	CCGT-0602005-FN-X25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.1	CCGT-060201-FN-X25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.2	CCGT-060202-FN-X25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.4	CCGT-060204-FN-X25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.05	CCGT-09T3005-FN-X25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.1	CCGT-09T301-FN-X25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.2	CCGT-09T302-FN-X25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.4	CCGT-09T304-FN-X25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.8	CCGT-09T308-FN-X25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



CCGT  
ENP-X25

R	Art. N°	PVD		non revêtu unbeschichtet uncoated
		TiAlN	TiN	K20
0.05	CCGT-0602005-ENP-X25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.1	CCGT-060201-ENP-X25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.2	CCGT-060202-ENP-X25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.4	CCGT-060204-ENP-X25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.05	CCGT-09T3005-ENP-X25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.1	CCGT-09T301-ENP-X25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.2	CCGT-09T302-ENP-X25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.4	CCGT-09T304-ENP-X25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.8	CCGT-09T308-ENP-X25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>



Plaquettes en métal dur

VHM-Wendeplatten

Solid carbide inserts

80°

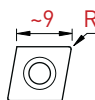
CCGT-X20

CCGT  
ENP-X20

PVD



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



Plaquettes en métal dur  
VHM-Wendeplatten  
Solid carbide inserts

80°

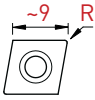
CCMT-XF3  
CCMT-XF2  
CCMT-MF2



CCMT  
EN-XF3

PVD	
TAC	HTAC
<input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> S	<input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> S

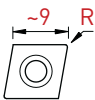
R	Art. N°	TAC	HTAC
0.2	CCMT-060202-EN-XF3	<input type="checkbox"/>	<input type="checkbox"/>
0.4	CCMT-060204-EN-XF3	<input type="checkbox"/>	<input type="checkbox"/>
0.2	CCMT-09T302-EN-XF3	<input type="checkbox"/>	<input type="checkbox"/>
0.4	CCMT-09T304-EN-XF3	<input type="checkbox"/>	<input type="checkbox"/>



CCMT  
EN-XF2

PVD		CVD
TAC	HTAC	HTi5
<input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> S	<input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> S	<input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/>

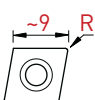
R	Art. N°	TAC	HTAC	HTi5
0.2	CCMT-060202-EN-XF2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.4	CCMT-060204-EN-XF2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.2	CCMT-09T302-EN-XF2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.4	CCMT-09T304-EN-XF2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



CCMT  
EN-MF2

PVD		CVD	
TAC	HTAC	Ti5	HTi5
<input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> S	<input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> S	<input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/>	<input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/>

R	Art. N°	TAC	HTAC	Ti5	HTi5
0.2	CCMT-060202-EN-MF2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.4	CCMT-060204-EN-MF2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.2	CCMT-09T302-EN-MF2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.4	CCMT-09T304-EN-MF2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0,8	CCMT-09T308-EN-MF2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Plaquettes en métal dur

VHM-Wendeplatten

Solid carbide inserts

80°

CCMT-MF

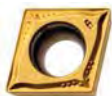
CCMT-HF3

CCMT-HF



CCMT  
EN-MF

R	Art. N°	PVD		CVD	
		Tmax	Ti4	Ti4	Ti4
0.2	CCMT-060202-EN-MF	■	■	■	■
0.4	CCMT-060204-EN-MF	■	■	■	■
0.2	CCMT-09T302-EN-MF	■	■	■	■
0.4	CCMT-09T304-EN-MF	■	■	■	■



CCMT  
EN-HF3

R	Art. N°	PVD		CVD	
		TiX	HTiX	Ti6	Ti6
0,2	CCMT-060202-EN-HF3	■	■	■	■
0.4	CCMT-060204-EN-HF3	■	■	■	■
0,2	CCMT-09T302-EN-HF3	■	■	■	■
0.4	CCMT-09T304-EN-HF3	■	■	■	■
0.8	CCMT-09T308-EN-HF3	■	■	■	■



CCMT  
EN-HF

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





CCGT  
 FN-X8

		CERMET	
		PVD	non revêtu unbeschichtet uncoated
		<input checked="" type="checkbox"/> P <input checked="" type="checkbox"/> M <input type="checkbox"/>	<input checked="" type="checkbox"/> P <input type="checkbox"/>
		<input type="checkbox"/> CTA	<input type="checkbox"/> CN6
R	Art. N°		
0.05	CCGT-0602005-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.1	CCGT-060201-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.2	CCGT-060202-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.05	CCGT-09T3005-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.1	CCGT-09T301-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.2	CCGT-09T302-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.4	CCGT-09T304-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



CCGT  
 ENP-KX

		CERMET		
		PVD		non revêtu unbeschichtet uncoated
		<input checked="" type="checkbox"/> P <input checked="" type="checkbox"/> M <input type="checkbox"/>	<input checked="" type="checkbox"/> P <input checked="" type="checkbox"/> M <input type="checkbox"/>	<input checked="" type="checkbox"/> P <input type="checkbox"/>
		<input type="checkbox"/> CT7	<input type="checkbox"/> HCT7	<input type="checkbox"/> CN6
R	Art. N°			
0.1	CCGT-060201-ENP-KX	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.2	CCGT-060202-ENP-KX	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.4	CCGT-060204-ENP-KX	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.1	CCGT-09T301-ENP-KX	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.2	CCGT-09T302-ENP-KX	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.4	CCGT-09T304-ENP-KX	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



Plaquettes CERMET  
 CERMET-Wendeplatten  
 CERMET inserts

80°

CCMT-KM



CCMT  
 EN-KM

		CERMET		
		PVD		non revêtu unbeschichtet uncoated
		P	P	P
		M	M	
		CT7	HCT7	CN6
R	Art. N°			
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	■	■	■





# ISO-LINE

Outils de tournage 55°

55°-Drehwerkzeuge

Turning tools 55°

55°



SDN



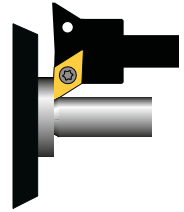
SDA



SDJ



SDH



SDU

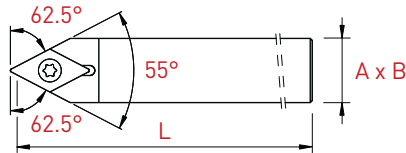
Porte-outils

Halter

Holder

55°

SDN



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

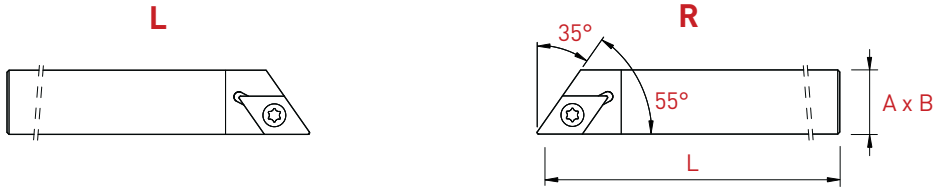
Porte-outils

Halter

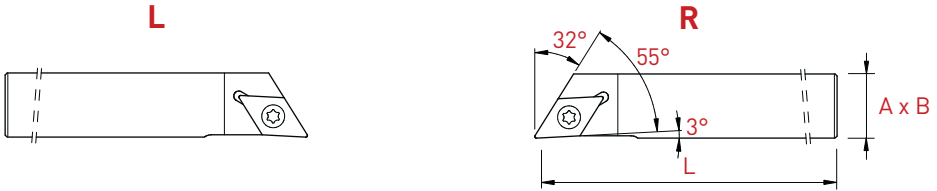
Holders

55°

SDA



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

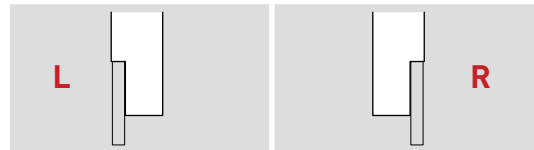
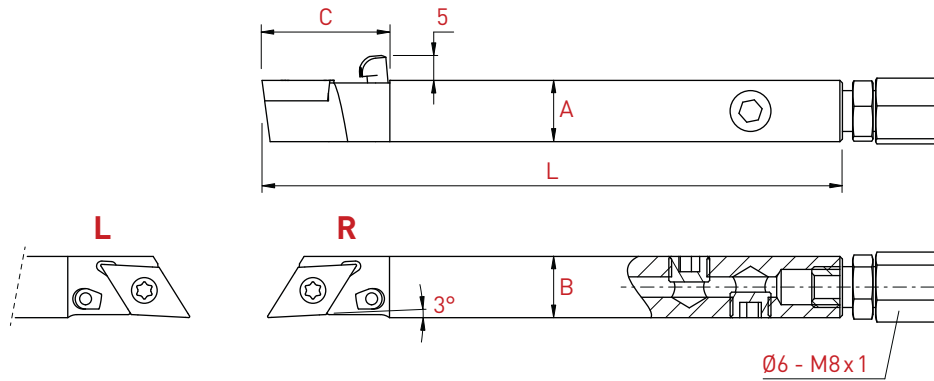


Plaquettes WSP Inserts	A x B x L	Art. N°	Art. N°
DC...0702..	8 x 8 x 115	SDJCL-0808X-07	SDJCR-0808X-07
	10 x 10 x 115	SDJCL-1010X-07	SDJCR-1010X-07
	12 x 12 x 130	SDJCL-1212X-07	SDJCR-1212X-07
	12 x 12 x 90	SDJCL-1212G-07	SDJCR-1212G-07
	12.7 x 12.7 x 130	SDJCL-12.7-X-07	SDJCR-12.7-X-07
	16 x 16 x 130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

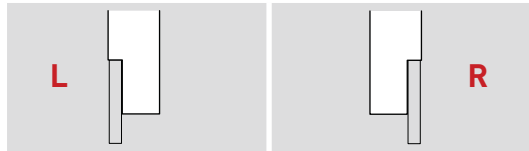
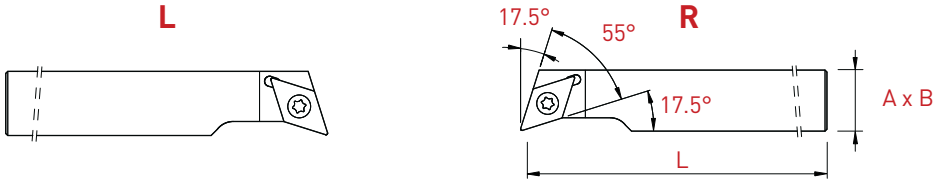
Porte-outils avec arrosage intégré  
 Halter mit integrierter Kühlmittelzufuhr  
 Holders with integrated coolant supply

55°

SDJ-JET



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



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

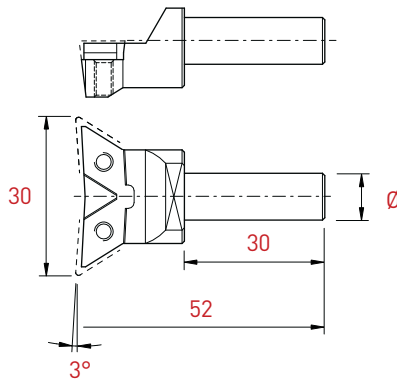
Porte-outils

Halter

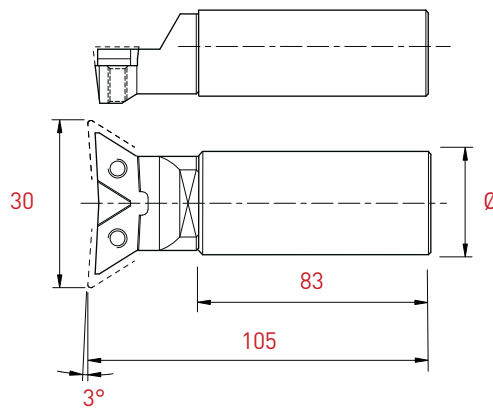
Holders

55°

SDU



Plaquettes WSP Inserts	Ø	Art. N°
DC..-11T3..	10	<b>SDUC-D10X-11</b>

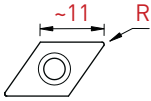
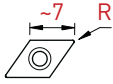


Plaquettes WSP Inserts	Ø	Art. N°
DC..-11T3..	20	<b>SDUC-D20X-11</b>
	25.4	<b>SDUC-D25.4X-11</b>



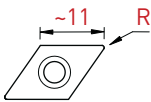
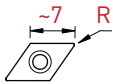
DCGT  
FN-X8

R	Art. N°	PVD			non revêtu unbeschichtet uncoated	
		TiAlN	HTA	TiN	K10	K20
0.05	DCGT-0702005-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0,08	DCGT-0702008-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.1	DCGT-070201-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0,15	DCGT-0702015-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.2	DCGT-070202-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.4	DCGT-070204-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.05	DCGT-11T3005-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0,08	DCGT-11T3008-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.1	DCGT-11T301-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0,15	DCGT-11T3015-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.2	DCGT-11T302-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.4	DCGT-11T304-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



DCGT  
ENP-X8

R	Art. N°	PVD		non revêtu unbeschichtet uncoated
		TiAlN	TiN	K20
0.05	DCGT-0702005-ENP-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0,08	DCGT-0702008-ENP-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.1	DCGT-070201-ENP-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0,15	DCGT-0702015-ENP-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.2	DCGT-070202-ENP-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.4	DCGT-070204-ENP-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.05	DCGT-11T3005-ENP-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0,08	DCGT-11T3008-ENP-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.1	DCGT-11T301-ENP-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0,15	DCGT-11T3015-ENP-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.2	DCGT-11T302-ENP-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.4	DCGT-11T304-ENP-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>



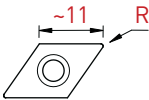
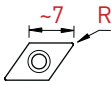
Plaquettes en métal dur  
VHM-Wendeplatten  
Solid carbide inserts

55°

DCGT-X17



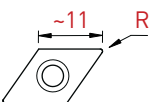
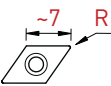
DCGT  
FN-X17



R	Art. N°	PVD			non revêtu unbeschichtet uncoated	
		TiAlN	HTA	TiN	K10	K20
0.05	DCGT-0702005-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0,08	DCGT-0702008-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.1	DCGT-070201-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0,15	DCGT-0702015-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.2	DCGT-070202-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.4	DCGT-070204-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.05	DCGT-11T3005-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0,08	DCGT-11T3008-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.1	DCGT-11T301-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0,15	DCGT-11T3015-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.2	DCGT-11T302-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.4	DCGT-11T304-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.8	DCGT-11T308-FN-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



DCGT  
ENP-X17



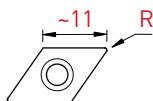
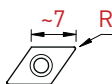
R	Art. N°	PVD		non revêtu unbeschichtet uncoated
		TiAlN	TiN	K20
0.05	DCGT-0702005-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0,08	DCGT-0702008-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.1	DCGT-070201-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0,15	DCGT-0702015-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.2	DCGT-070202-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.4	DCGT-070204-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.05	DCGT-11T3005-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0,08	DCGT-11T3008-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.1	DCGT-11T301-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0,15	DCGT-11T3015-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.2	DCGT-11T302-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.4	DCGT-11T304-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.8	DCGT-11T308-ENP-X17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>





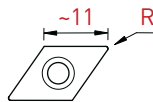
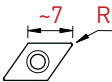
**DCGT  
FN-X25**

R	Art. N°	PVD			non revêtu unbeschichtet uncoated	
		TiAlN	HTA	TiN	K10	K20
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



**DCGT  
ENP-X25**

R	Art. N°	PVD		non revêtu unbeschichtet uncoated
		TiAlN	TiN	K20
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Plaquettes en métal dur

VHM-Wendeplatten

Solid carbide inserts

55°

DCGT-X20

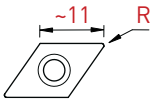
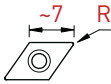


DCGT  
ENP-X20

PVD



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



# ISO-LINE

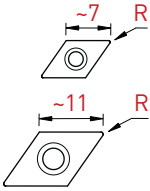
Plaquettes en métal dur  
VHM-Wendepplatten  
Solid carbide inserts

55°

DCMT-XF3  
DCMT-XF2  
DCMT-MF2



DCMT  
EN-XF3

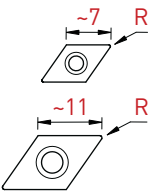


R	Art. N°	PVD	
		TAC	HTAC
0.2	DCMT-070202-EN-XF3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.4	DCMT-070204-EN-XF3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.2	DCMT-11T302-EN-XF3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.4	DCMT-11T304-EN-XF3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

PVD	
<input checked="" type="checkbox"/> P	<input checked="" type="checkbox"/> P
<input checked="" type="checkbox"/> M	<input checked="" type="checkbox"/> M
<input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> N
<input checked="" type="checkbox"/> S	<input checked="" type="checkbox"/> S
TAC	HTAC



DCMT  
EN-XF2

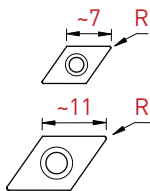


R	Art. N°	PVD		CVD
		TAC	HTAC	HT15
0.2	DCMT-070202-EN-XF2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.4	DCMT-070204-EN-XF2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.2	DCMT-11T302-EN-XF2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.4	DCMT-11T304-EN-XF2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

PVD		CVD
<input checked="" type="checkbox"/> P	<input checked="" type="checkbox"/> P	<input checked="" type="checkbox"/> P
<input checked="" type="checkbox"/> M	<input checked="" type="checkbox"/> M	<input checked="" type="checkbox"/> M
<input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> N	<input type="checkbox"/>
<input checked="" type="checkbox"/> S	<input checked="" type="checkbox"/> S	<input type="checkbox"/>
TAC	HTAC	HT15



DCMT  
EN-MF2



R	Art. N°	PVD		CVD	
		TAC	HTAC	Ti5	HT15
0.2	DCMT-070202-EN-MF2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.4	DCMT-070204-EN-MF2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.2	DCMT-11T302-EN-MF2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.4	DCMT-11T304-EN-MF2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.8	DCMT-11T308-EN-MF2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

PVD		CVD	
<input checked="" type="checkbox"/> P	<input checked="" type="checkbox"/> P	<input checked="" type="checkbox"/> P	<input checked="" type="checkbox"/> P
<input checked="" type="checkbox"/> M	<input checked="" type="checkbox"/> M	<input checked="" type="checkbox"/> M	<input checked="" type="checkbox"/> M
<input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> S	<input checked="" type="checkbox"/> S	<input type="checkbox"/>	<input type="checkbox"/>
TAC	HTAC	Ti5	HT15

Plaquettes en métal dur

VHM-Wendepplatten

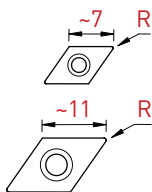
Solid carbide inserts

55°

DCMT-MF

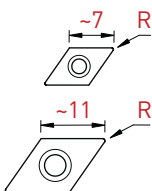
DCMT-HF3

DCMT-HF



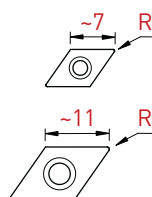
DCMT  
EN-MF

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



DCMT  
EN-HF3

R	Art. N°	PVD		CVD	
		TiX	HTiX	Ti6	Ti6
0,2	DCMT-070202-EN-HF3	■	■	■	■
0.4	DCMT-070204-EN-HF3	■	■	■	■
0.2	DCMT-11T302-EN-HF3	■	■	■	■
0.4	DCMT-11T304-EN-HF3	■	■	■	■
0.8	DCMT-11T308-EN-HF3	■	■	■	■



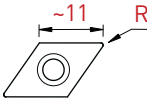
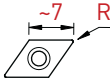
DCMT  
EN-HF

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



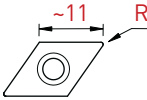
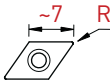
DCGT  
 FN-X8

		CERMET	
		PVD	non revêtu unbeschichtet uncoated
		<input type="checkbox"/> P <input checked="" type="checkbox"/> M <input type="checkbox"/>	<input type="checkbox"/> P <input type="checkbox"/>
		CTA	CN6
R	Art. N°		
0.05	DCGT-0702005-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.1	DCGT-070201-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.2	DCGT-070202-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.05	DCGT-11T3005-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.1	DCGT-11T301-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.2	DCGT-11T302-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.4	DCGT-11T304-FN-X8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



DCGT  
 ENP-KX

		CERMET	
		PVD	non revêtu unbeschichtet uncoated
		<input checked="" type="checkbox"/> P <input checked="" type="checkbox"/> M <input type="checkbox"/>	<input checked="" type="checkbox"/> P <input type="checkbox"/>
		CT7	HCT7
R	Art. N°		
0.1	DCGT-070201-ENP-KX	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.2	DCGT-070202-ENP-KX	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.4	DCGT-070204-ENP-KX	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.1	DCGT-11T301-ENP-KX	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.2	DCGT-11T302-ENP-KX	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.4	DCGT-11T304-ENP-KX	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



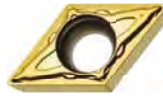
Plaquettes CERMET

CERMET-Wendeplatten

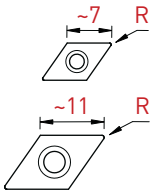
CERMET inserts

55°

DCMT-KM

DCMT  
EN-KM

		CERMET		
		PVD		non revêtu unbeschichtet uncoated
		P M	P M	P
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		CT7	HCT7	CN6
R	Art. N°	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.2	DCMT-070202-EN-KM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.4	DCMT-070204-EN-KM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.2	DCMT-11T302-EN-KM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.4	DCMT-11T304-EN-KM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.8	DCMT-11T308-EN-KM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



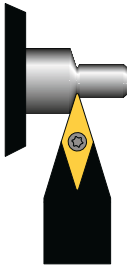
# ISO-LINE

Outils de tournage 35°

35°-Drehwerkzeuge

Turning tools 35°

35°



SVV



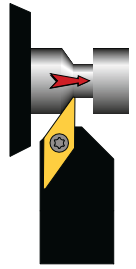
SVA



SVJ



SVX



SV-CL/R

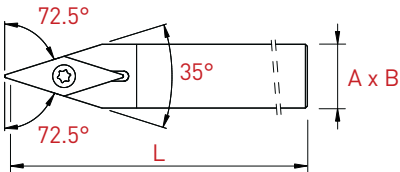
Porte-outils

Halter

Holder

35°

SVV



Plaquettes WSP Inserts	A x B x L	Art. N°
VC...-1103..	8 x 8 x 115	SVVCN-08108X-11
	10 x 10 x 115	SVVCN-1010X-11
	12 x 12 x 130	SVVCN-1212X-11
	12 x 12 x 90	SVVCN-1212G-11
	12.7 x 12.7 x 130	SVVCN-12.7-X-11
	16 x 16 x 130	SVVCN-1616X-11
	16 x 16 x 75	SVVCN-1616F-11
VC...-1303..	20 x 20 x 120	SVVCN-2020X-11
	8 x 10 x 115	SVVCN-0810X-13
	10 x 10 x 115	SVVCN-1010X-13
	12 x 12 x 130	SVVCN-1212X-13
	12 x 12 x 90	SVVCN-1212G-13
	12.7 x 12.7 x 130	SVVCN-12.7-X-13
	16 x 16 x 130	SVVCN-1616X-13
	16 x 16 x 75	SVVCN-1616F-13
20 x 20 x 120	SVVCN-2020X-13	
VC...-1604..	12 x 12 x 130	SVVCN-1212X-16
	12 x 12 x 90	SVVCN-1212G-16
	12.7 x 12.7 x 130	SVVCN-12.7-X-16
	16 x 16 x 130	SVVCN-1616X-16
	16 x 16 x 75	SVVCN-1616F-16
	20 x 20 x 120	SVVCN-2020X-16

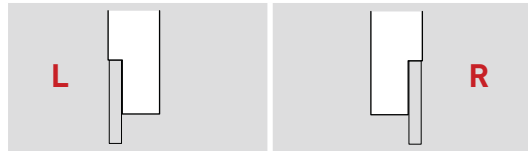
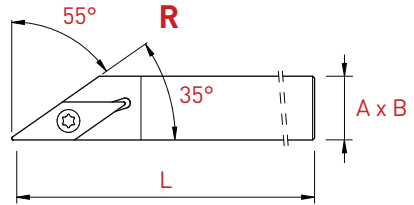
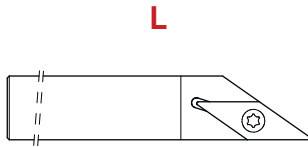
Porte-outils

Halter

Holders

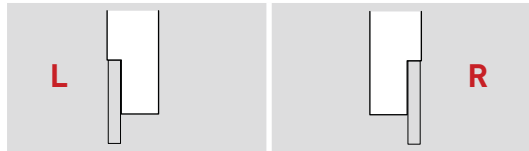
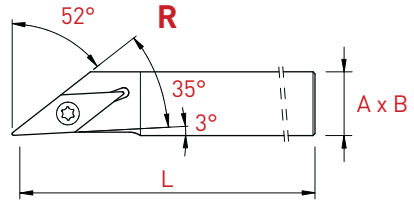
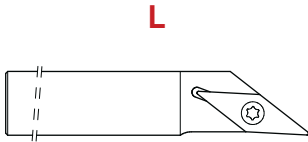
35°

SVA



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



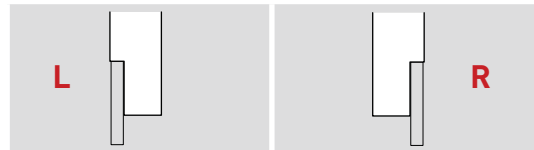
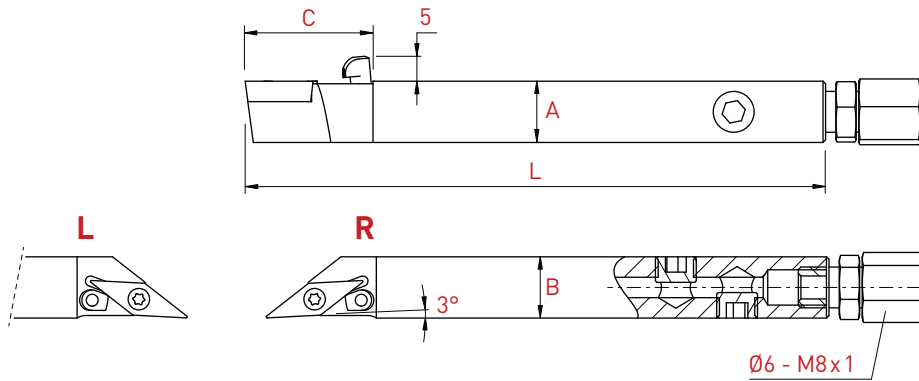


Plaquettes WSP Inserts	A x B x L	Art. N°	Art. N°
VC..-1103..	8 x 8 x 115	SVJCL-0808X-11	SVJCR-0808X-11
	10 x 10 x 115	SVJCL-1010X-11	SVJCR-1010X-11
	12 x 12 x 130	SVJCL-1212X-11	SVJCR-1212X-11
	12 x 12 x 90	SVJCL-1212G-11	SVJCR-1212G-11
	12.7 x 12.7 x 130	SVJCL-12.7-X-11	SVJCR-12.7-X-11
	16 x 16 x 130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

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

35°

SVJ-JET



Plaquettes WSP Inserts	A x B x L	C	Art. N°	Art. N°
VC...-1103..	10 x 10 x 110	21	SVJCL-1010J-11-JET	SVJCR-1010J-11-JET
	12 x 12 x 110	21	SVJCL-1212J-11-JET	SVJCR-1212J-11-JET
	12.7 x 12.7 x 110	21	SVJCL-12.7-J-11-JET	SVJCR-12.7-J-11-JET
	16 x 16 x 110	21	SVJCL-1616J-11-JET	SVJCR-1616J-11-JET
	20 x 20 x 120	21	SVJCL-2020J-11-JET	SVJCR-2020J-11-JET
VC...-1303..	10 x 10 x 110	26	SVJCL-1010J-13-JET	SVJCR-1010J-13-JET
	12 x 12 x 110	26	SVJCL-1212J-13-JET	SVJCR-1212J-13-JET
	12.7 x 12.7 x 110	26	SVJCL-12.7-J-13-JET	SVJCR-12.7-J-13-JET
	16 x 16 x 110	26	SVJCL-1616J-13-JET	SVJCR-1616J-13-JET
	20 x 20 x 110	26	SVJCL-2020J-13-JET	SVJCR-2020J-13-JET
VC...-1604..	12 x 12 x 130	30	SVJCL-1212J-16-JET	SVJCR-1212J-16-JET
	12.7 x 12.7 x 130	30	SVJCL-12.7-J-16-JET	SVJCR-12.7-J-16-JET
	16 x 16 x 130	30	SVJCL-1616J-16-JET	SVJCR-1616J-16-JET
	20 x 20 x 120	30	SVJCL-2020J-16-JET	SVJCR-2020J-16-JET

# ISO-LINE

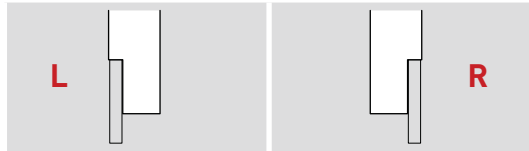
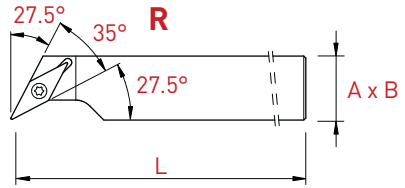
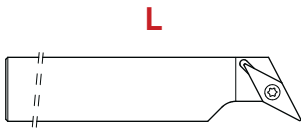
Porte-outils

Halter

Holder

35°

SVX



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

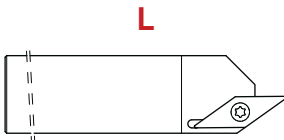
Porte-outils

Halter

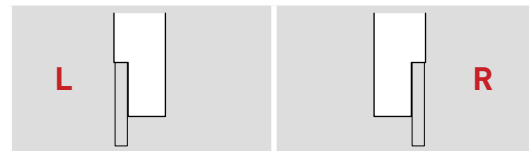
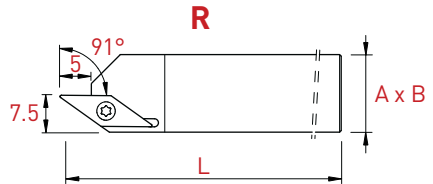
Holder

35°

SV-CL/R



tournage arrière  
rückwärts drehen  
back turning



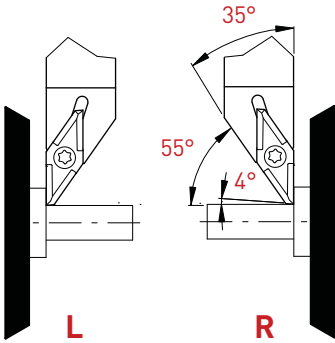
Plaquettes WSP Inserts	A x B x L	Art. N°	Art. N°
VCG..-1103..	12 x 12 x 130	SV-CL-1212X-11	SV-CR-1212X-11
	12 x 12 x 90	SV-CL-1212G-11	SV-CR-1212G-11
	12.7 x 12.7 x 130	SV-CL-12.7-X-11	SV-CR-12.7-X-11
	16 x 16 x 130	SV-CL-1616X-11	SV-CR-1616X-11
	16 x 16 x 75	SV-CL-1616F-11	SV-CR-1616F-11
	20 x 20 x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

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

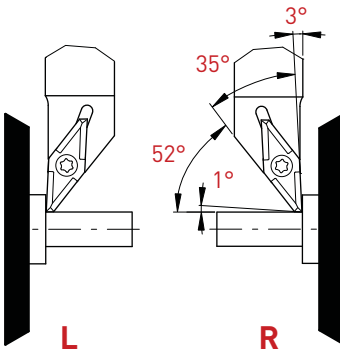
Passende Halter zu den Wendepplatten VCGT FL/FR-X10°

Holder compatible with inserts VCGT FL/FR-X10°

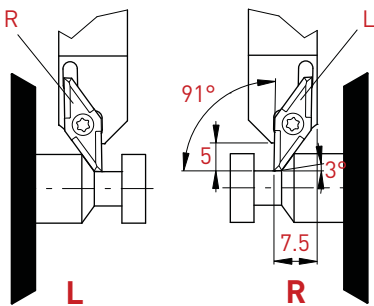
35°



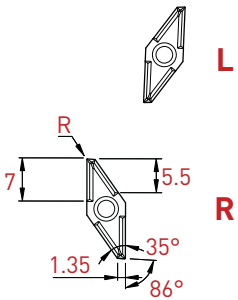
	Art. N°
R	SVACR-...-11
L	SVACL-...-11



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

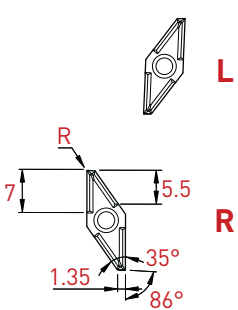


	Art. N°
R	SV-CR-...-11
L	SV-CL-...-11



**VCGT  
FL / FR-X10**

R	Art. N°	PVD					non revêtu unbeschichtet uncoated	
		TiAlN	HTA	TiAlX	HTAX	TiN	K10	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					non revêtu unbeschichtet uncoated	
		TiAlN	HTA	TiAlX	HTAX	TiN	K10	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

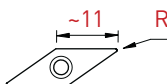
35°

VCGT-K18

VCGW-0



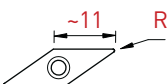
VCGT  
FN-K18



R	Art. N°	PVD		non revêtu unbeschichtet uncoated
		HTA	HTiN	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	■	■	■



VCGW  
FN-0

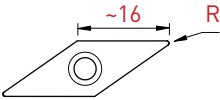
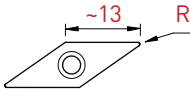
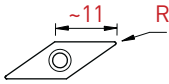


R	Art. N°	PVD		non revêtu unbeschichtet uncoated
		HTA	HTiN	K10
0.05	VCGW-1103005-FN-0	■	■	■
0.1	VCGW-110301-FN-0	■	■	■
0.2	VCGW-110302-FN-0	■	■	■
0.4	VCGW-110304-FN-0	■	■	■



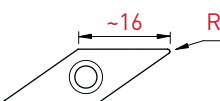
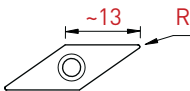
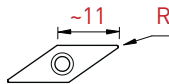
VCGT  
FN-X8

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



VCGT  
ENP-X8

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



Plaquettes en métal dur

VHM-Wendeplatten

Solid carbide inserts

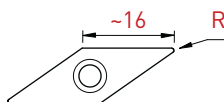
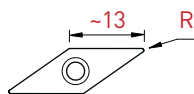
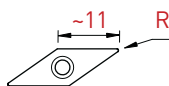
35°

VCGT-X17



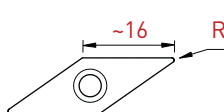
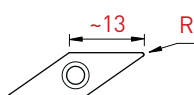
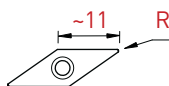
VCGT  
FN-X17

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



VCGT  
ENP-X17

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

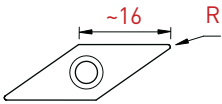
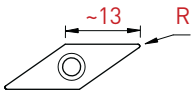
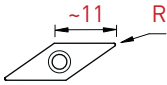






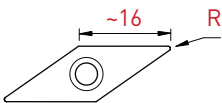
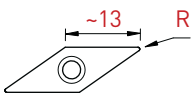
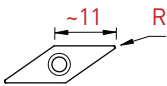
VCGT  
FN-X25

R	Art. N°	PVD			non revêtu unbeschichtet uncoated	
		TiAIN	HTA	TiN	K10	K20
		P M N S	P M N S	P M N	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>
0.05	VCGT-1103005-FN-X25	■	■	■	■	■
0.1	VCGT-110301-FN-X25	■	■	■	■	■
0.2	VCGT-110302-FN-X25	■	■	■	■	■
0.4	VCGT-110304-FN-X25	■	■	■	■	■
0.05	VCGT-1303005-FN-X25	■	■	■	■	■
0.1	VCGT-130301-FN-X25	■	■	■	■	■
0.2	VCGT-130302-FN-X25	■	■	■	■	■
0.4	VCGT-130304-FN-X25	■	■	■	■	■
0.8	VCGT-130308-FN-X25	■	■	■	■	■
0.05	VCGT-1604005-FN-X25	■	■	■	■	■
0.1	VCGT-160401-FN-X25	■	■	■	■	■
0.2	VCGT-160402-FN-X25	■	■	■	■	■
0.4	VCGT-160404-FN-X25	■	■	■	■	■
0.8	VCGT-160408-FN-X25	■	■	■	■	■



VCGT  
ENP-X25

R	Art. N°	PVD		non revêtu unbeschichtet uncoated
		TiAIN	TiN	K20
		P M N S	P M N	<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
0.05	VCGT-1103005-ENP-X25	■	■	■
0.1	VCGT-110301-ENP-X25	■	■	■
0.2	VCGT-110302-ENP-X25	■	■	■
0.4	VCGT-110304-ENP-X25	■	■	■
0.05	VCGT-1303005-ENP-X25	■	■	■
0.1	VCGT-130301-ENP-X25	■	■	■
0.2	VCGT-130302-ENP-X25	■	■	■
0.4	VCGT-130304-ENP-X25	■	■	■
0.8	VCGT-130308-ENP-X25	■	■	■
0.05	VCGT-1604005-ENP-X25	■	■	■
0.1	VCGT-160401-ENP-X25	■	■	■
0.2	VCGT-160402-ENP-X25	■	■	■
0.4	VCGT-160404-ENP-X25	■	■	■
0.8	VCGT-160408-ENP-X25	■	■	■



Plaquettes en métal dur

VHM-Wendeplatten

Solid carbide inserts

35°

VCGT-X20

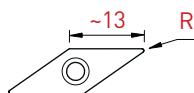


VCGT  
ENP-X20

PVD



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



# ISO-LINE

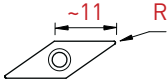
Plaquettes en métal dur  
 VHM-Wendeplatten  
 Solid carbide inserts

35°

VCMT-XF3  
 VCMT-XF2



VCMT  
 EN-XF3

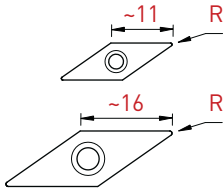


R	Art. N°	TAC	HTAC
0.2	VCMT-110302-EN-XF3	■	■
0.4	VCMT-110304-EN-XF3	■	■

PVD	
P	P
M	M
N	N
S	S
TAC	HTAC



VCMT  
 EN-XF2



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

PVD		CVD
P	P	P
M	M	M
N	N	
S	S	
TAC	HTAC	HTi5

Plaquettes en métal dur

VHM-Wendeplatten

Solid carbide inserts

35°

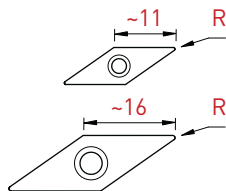
VCMT-MF

VCMT-HF



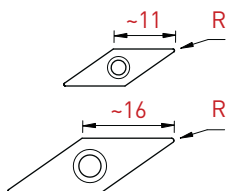
VCMT  
EN-MF

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



VCMT  
EN-HF

R	Art. N°	PVD		CVD	
		P	M	P	M
		Tmax		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	■	■	■	■

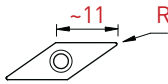




VCGT  
 FN-X8

CERMET	
PVD	non revêtu unbeschichtet uncoated
<input checked="" type="checkbox"/> P	<input checked="" type="checkbox"/> P
<input checked="" type="checkbox"/> M	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
CTA	CN6
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>





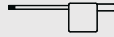

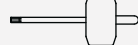
R	Art. N°
0.05	VCGT-1103005-FN-X8
0.1	VCGT-110301-FN-X8
0.2	VCGT-110302-FN-X8
0.4	VCGT-110304-FN-X8









Pièces de rechange et accessoires

Ersatzteile und Zubehör

Spare parts and accessories

Vis et clés de rechange Ersatzschrauben und Schlüssel Spare screws and keys	Porte-outils Halter Holders	Vis Schrauben Screw	Clé Schlüssel Key		
				Option	Serrage Drehmoment Torque
	Series SC...-06 Series SD...-07 Series SV...-11	V-M2.5X7.8-T8 	C-T8 	SET-NM-TX8	1.3 Nm
	Series SV...-13	V-M3X7.3-T8-ISO 	C-T8 	SET-NM-TX8	2.0 Nm
	Series SC...-09 Series SD...-11 Series SV...-16	V-M4X9-T15-ISO 	C-T15 	SET-NM-TX15	3.0 Nm

Pièces de rechange JET Ersatzteile JET Spare parts JET	L Pour réf. For ref. Für 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	J-M8X1-D6	JB-M8X1
	S...L-16...-JET S...L-20...-JET	JJL-4X17-D1.5	J-M8X1-D6	JB-M8X1
R Pour réf. For ref. Für 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	J-M8X1-D6	JB-M8X1
	S...R-16...-JET S...R-20...-JET	JJR-4X17-D1.5	J-M8X1-D6	JB-M8X1

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

## Paramètres de coupe indicatifs

## Empfohlene Schnittwerte

## Standard machining data

ISO-Line	Tough grade, for normal to difficult machining conditions	Wear resistant grade, for finishing and light machining	Acier Stahl Steel						Inox Rostfreistahl Stainless steel			
			Acier de décolletage Automatenstahl Free-cutting steel		Acier faiblement allié Leicht legierter Stahl Low alloyed steel		Acier fortement allié Hochlegierter Stahl High alloyed steel		Austénitique Austenitisch Austenitic		Martensitique Martensitisch Martensitic	
			VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)
FN-X8	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
	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
	N	HN										
ENP-X8	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
	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
	N	HN										
FN-X17	TiAlN	HTA	80-180	0.01-0.12	60-150	0.01-0.10			60-140	0.01-0.15	60-140	0.01-0.15
	TiN		80-170	0.01-0.12					60-120	0.01-0.15	60-120	0.01-0.15
	N	HN										
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
	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
	N	HN										
FN-X25	TiAlN	HTA							60-140	0.01-0.12		
	TiN								60-120	0.01-0.12		
	N	HN										
ENP-X25	TiAlN	HTA							60-140	0.03-0.12	60-140	0.03-0.15
	TiN								60-120	0.03-0.12	60-120	0.03-0.15
	N	HN										
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
	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
	N	HN										
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
	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
	N	HN										
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
		HN										
FN-0		HTA	80-150	0.01-0.10								
		HTiN	80-140	0.01-0.10								
		HN										



N Alliage d'aluminium et non ferreux Aluminium- und Nichteisenlegierungen Aluminium and non-ferrous alloys								S Titane et superalliages Titan and 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
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
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
		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
		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
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
		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 tight machining	Acier Stahl Steel						Inox Rostfreistahl Stainless steel			
				Acier de décolletage Automatenstahl Free-cutting steel		Acier faiblement allié Leicht legierter Stahl Low alloyed steel		Acier fortement allié Hochlegierter Stahl High alloyed steel		Austénitique Austenitisch Austenitic		Martensitique Martensitisch Martensitic	
				VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)	VC (m/min)	F (mm/U)
EN-XF3	TAC	HTAC		100-200	0.03-0.15	80-160	0.03-0.12	50-120	0.03-0.10	60-140	0.03-0.12	60-140	0.03-0.15
EN-XF2	TAC	HTAC		100-200	0.03-0.15	80-160	0.03-0.12	50-120	0.03-0.10	60-140	0.03-0.12	60-140	0.03-0.15
		HTI5		100-250	0.03-0.15	80-220	0.03-0.12	50-180	0.03-0.10	80-200	0.03-0.12	80-200	0.03-0.15
EN-MF2	TAC	HTAC		100-200	0.04-0.15	80-160	0.04-0.12	50-120	0.04-0.10	60-140	0.04-0.12	60-140	0.04-0.15
		HTI5		100-250	0.04-0.15	80-220	0.04-0.12	50-180	0.04-0.10	80-200	0.04-0.12	80-200	0.04-0.15
EN-MF	Tmax			100-220	0.04-0.30	80-180	0.04-0.25	50-150	0.04-0.20	60-150	0.04-0.25	60-150	0.04-0.25
		Ti4		100-250	0.05-0.30	80-220	0.05-0.25	50-180	0.05-0.20	80-200	0.05-0.25	80-200	0.05-0.25
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

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				

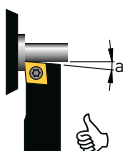


N Allages d'aluminium et non ferreux Aluminium- und Nichteisenlegierungen Aluminium and non-ferrous alloys								S Titane et superalliages Titan und Superlegierungen Titanium and superalloys					
Aluminium		Al-Si		Cuivre Kupfer Copper		Laiton & bronze Messing & Bronze Brass & bronze		Ti grade 1 - 3		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
										30-70	0.06-0.20	40-80	0.06-0.20

Conseils d'utilisation

Anwendungsempfehlungen

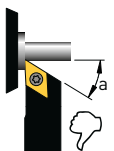
Application recommendations



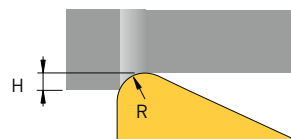
• pour un meilleur état de surface et une meilleure stabilité d'usinage, choisir une géométrie d'outil permettant un angle "a" le plus petit possible

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

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



rapport hauteur de passe / rayon d'outil  
Verhältnis zwischen Spantiefe und Werkzeugradius  
machining depth / tool radius ratio



$H_{min} = 0.7 \times R$   
 $R_{max} = 1.4 \times H$