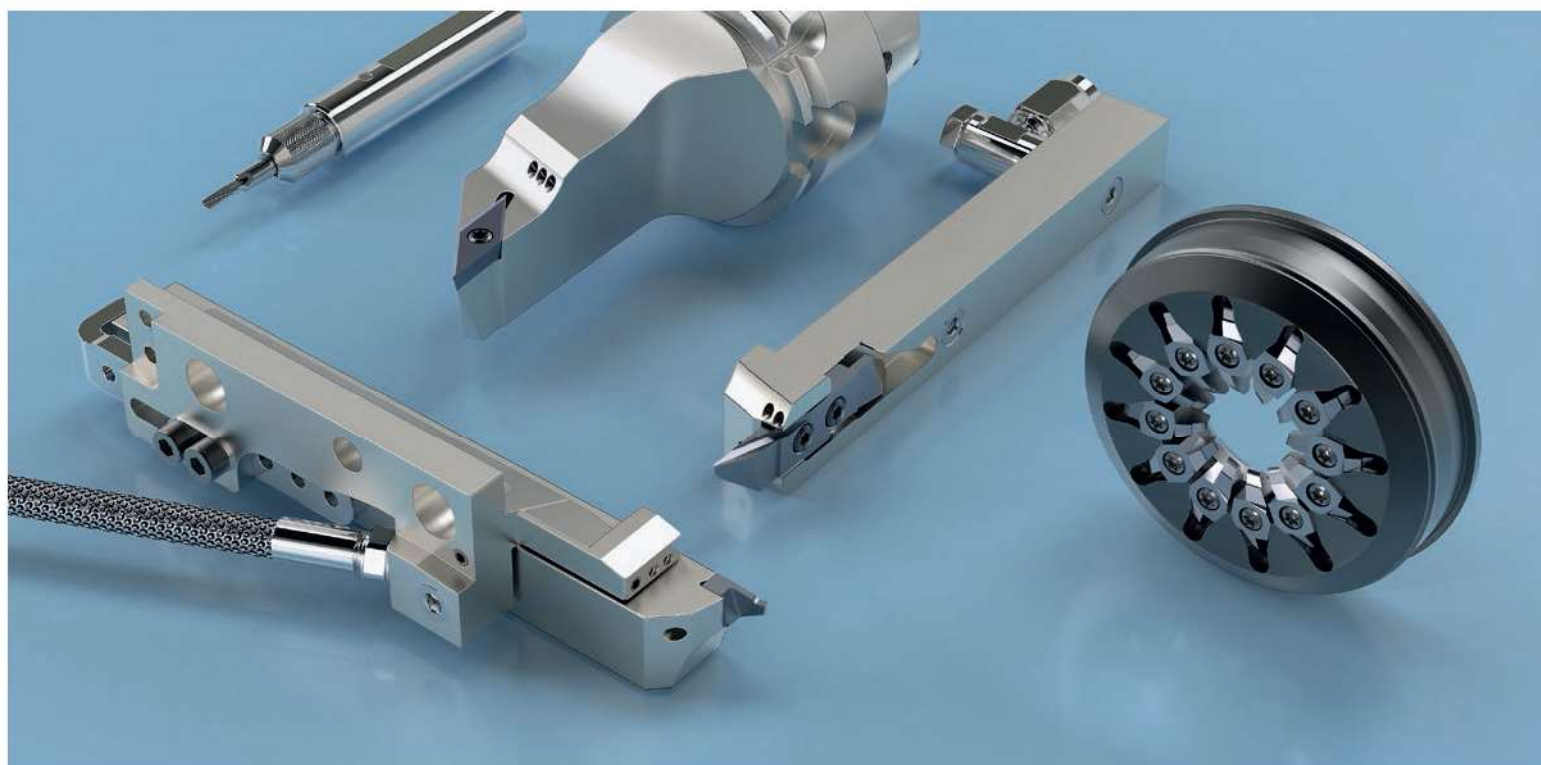


**GENERAL CATALOG 2020/21**



**PRECISION TOOLS  
FOR SMALL PART MANUFACTURING AND MICRO-CUTTING**



**Advantages:**

- Large range of standard ISO inserts
- Sharp cutting edges "F"
- Rounded cutting edges "E"
- Small corner radius (0–0.8 mm)
- Especially designed holders for CNC Swiss type automatic lathes (sizes 8×8 to 25×25 mm)

The versatility of the materials which are machined in a modern production facility requires suitable chip breakers and also a wider variety of cutting edge types, carbide grades and coatings.

Our range of ISO inserts has been supplemented with the introduction of the new "PF05" insert and the addition of cutting geometries "A3", "PF23" and "PF33".

**New chip breaker for materials with difficult chip breaking behaviour**



**FN-PF05**

Precision grinding with ISO-E tolerance at the centre height and at the inner circle, together with an extremely wear-resistant substrate and modern coating, make this insert a real problem-solver for the machining of stainless steels and super-alloys.

**Advantages:**

- High insert change repeat accuracy
- Sharp cutting edge despite coating

**New versions of existing inserts**



**EN-A3  
FN-A3**

**EN-...** : With rounded cutting edge "E"  
**FN-...** : With sharp cutting edge "F"



**EN-PF23  
FN-PF23**

The proven chip breakers A3, PF23 and PF33 are now also available with a slightly rounded cutting edge. New carbide grades and a new high performance coating have also been introduced for all of these inserts.

This wide range of options will increase your flexibility in choosing the right cutting edge tremendously, and provide a suitable solution for all materials.



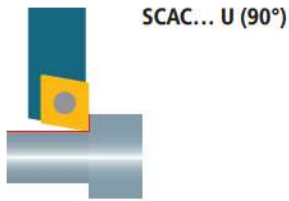
**EN-PF33  
FN-PF33**

**Advantages:**

- A much wider range of workpieces can be processed.
- Bigger feeds and cutting depths are possible with rounded cutting edges
- Substrates that are both wear-resistant and extremely tough are available.
- Optimally coordinated coatings for high performance.

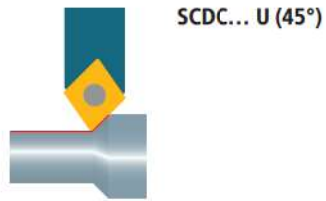
Front turning

Holders □ 195



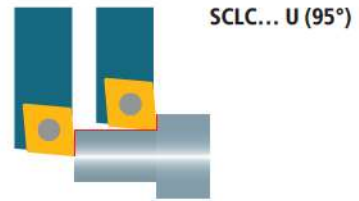
Turning

Holders □ 195



Turning and facing

Holders □ 196



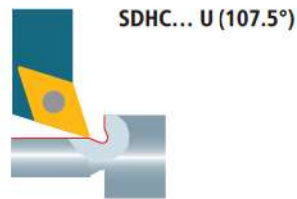
Front turning

Holders □ 227



Turning and undercutting

Holders □ 228



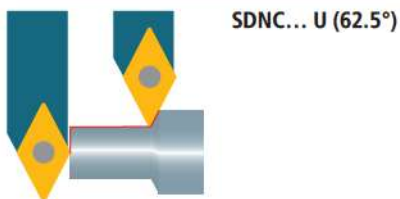
Turning and facing

Holders □ 230/252



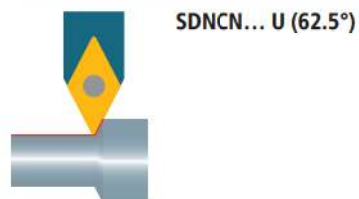
Turning and facing

Holders □ 234



Turning

Holders □ 236



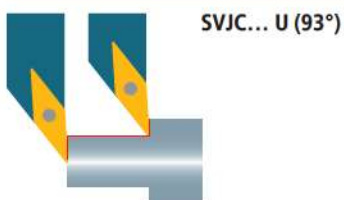
Front turning

Holders □ 283



Turning and facing

Holders □ 284



Turning and undercutting

Holders □ 286



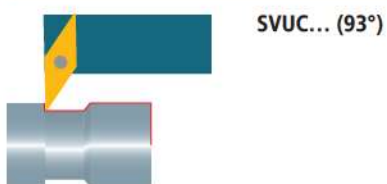
Back turning

Holders □ 290



Turning and facing

Holders □ 291



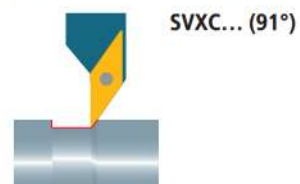
Turning

Holders □ 292



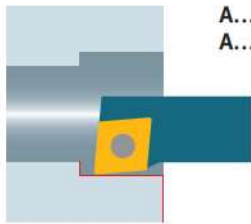
Back turning

Holders □ 294



Turning and facing

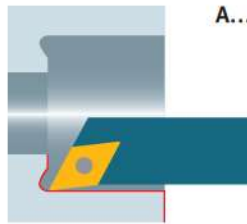
Holders 198/199



**A... SCFC... (90°)**  
**A... SCLC... (95°)**

Turning and facing

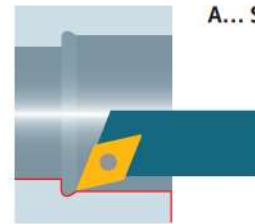
Holders 242



**A... SDOC... (95°)**

Turning and facing

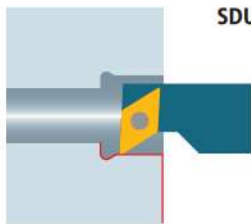
Holders 243



**A... SDQC... (107.5°)**

Turning and facing

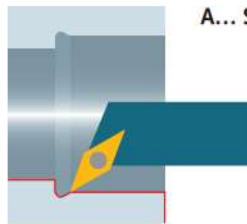
Holders 244



**SDUC... (93°)**

Turning and undercutting

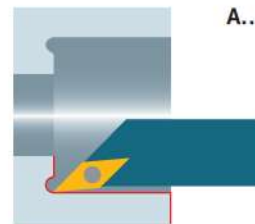
Holders 298



**A... SVQC... (107.5°)**

Turning and facing

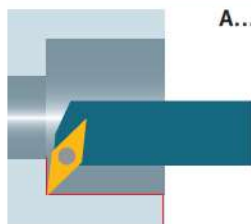
Holders 299



**A... SVOC... (95°)**

Turning and facing

Holders 300



**A... SVUC... (93°)**

Inserts

177/201/249/259

All illustrations show right hand design. Left hand design is also available.



multidec®-ISO provides a well balanced range of tools for turning with rhombic 80° inserts and holders. Positive inserts with rounded cutting edges for roughing and sharp cutting edges for finishing are available.

These include a wide range of ground holders with hardened and nickel-plated surfaces for Swiss type automatic lathes with shank sizes from 8 to 20 mm and boring bars with diameters from 8 to 20 mm.



**Advantages:**

- High cutting volume with high feed rates
- Carbide and Cermet grades with chip breaker and coatings for all common materials
- Diamond range with CVD and PCD inserts for machining non-ferrous metals
- Cutting edge radius from 0.03 to 0.8 mm as standard
- Boring bars with steel- and carbide shank



"IC" tool holder with integrated cooling

Cost-efficient processing of modern materials increasingly requires accurate control of the coolant at the cutting edge. Conveying the coolant as close as possible to the cutting edge is often a difficult task in the machine rooms of Swiss type turning lathes.

The multidec®-IC program offers a wide range of holders with integrated cooling. Because of the high precision and pressure, it is possible to discharge the chip quickly and safely from the cutting edge and the workpiece, which protects the cutting edge of the insert. This means significantly longer tool life as well as very reliable serial production.

**Advantages:**

- All holders feature five possible connectors for the coolant supply
- Constant coolant discharge means low build-up at front near the holder
- With or without high pressure, the coolant medium always hits the cutting edge precisely

Inserts (carbide / cermet)



CCGT ... -PA3	178
CCGT ... -PA5	179
CCGT ... -PA7	180
CCXT ... PA9	181
CCGT ... -PF	182
CCGT ... FN -PF23	183
CCGT ... EN -PF23	184
CCMT ... -PF43	185
CCMT ... -PM	186
CCMT ... -PMF	187
CCMT ... -PM25	188
CCMT ... -PM55	189
CCET ... -U	190

Inserts (diamond)



CCGT ...	191
CCGT ... -UWS	192
CCGT ... -UWN	193
CCGT ... TOP -UWN	194

Holders (OD turning)



SCAC... U (90°)	195
SCDC... U (45°)	195
SCLC... U (95°), SCLC... U IC (95°)	196

Holders (ID turning)



A... SCFC... (90°)	198
A... SCLC... (95°)	199

Replacement and spare parts

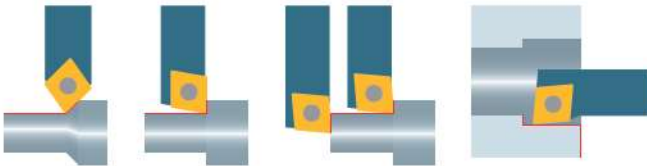


199

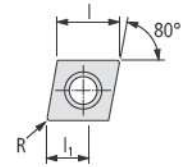
Coolant system and accessories



619



CCGT ... -PA3


 $\beta: 30^\circ$   
 $s: \pm 0.13$   
 $C: < 0.002$ 

Order designation	Carbide																20	Cermet				Diamond				Dimensions			Holder
	-	-	●	●	○	●	●	●	●	○	○	●	●	○	●	●	○	●	●	○	●	●	○	-	-	-	-	195...	
	○	●	●	●	-	-	○	●	●	○	○	●	●	-	-	○	○	○	○	-	-	-	-	-	-	-			
	●	○	-	-	-	-	○	-	-	-	-	-	-	○	-	-	-	-	-	●	●	●	-	-	-	-			
	-	-	●	-	-	-	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20					I	R	I <sub>1</sub>			
<b>STANDARD-LINE</b>																													
N	CCGT 060202 FN -PA3 ...	■	■	■																					6.4	0.2	4		SC...06...
	CCGT 060204 FN -PA3 ...	■	■	■																					6.4	0.4	4		SC...06...
	CCGT 09T304 FN -PA3 ...	■	■	■																					9.7	0.4	4		SC...09...
	CCGT 09T308 FN -PA3 ...	■	■	■																					9.7	0.8	4		SC...09...

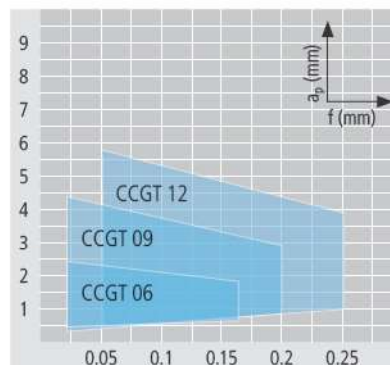
## Application range of chip breaker

multidec®-ISO

### Properties:

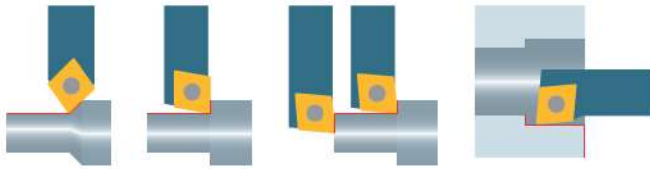
- polished rake
- ground clearance
- sharp cutting edge "F"
- micrograin carbide, heat and wear resistant

Optimal chip breaking

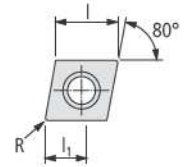


### Application:

- micro finishing
- chip breaker for materials with difficult chip control
- stainless steel, alloyed steel, titanium, super alloy, aluminum and synthetics reinforced/composites



CCGT ... -PA5



$\beta$ : 25°  
 $s$ :  $\pm 0.13$   
 $C$ :  $< 0.002$

Order designation	Carbide												20	Cermet	Diamond	Dimensions			Holder
	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	-	-	-	195...
	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	-	-	-	
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	-	-	-	
	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20

### STANDARD-LINE

N	CCGT 060202 FN -PA5 ...	■	■	■													6.4	0.2	4	SC...06...
	CCGT 060204 FN -PA5 ...	■	■	■													6.4	0.4	4	SC...06...
	CCGT 09T302 FN -PA5 ...	■	■	■													9.7	0.2	6	SC...09...
	CCGT 09T304 FN -PA5 ...	■	■	■													9.7	0.4	6	SC...09...
	CCGT 09T308 FN -PA5 ...	■	■	■													9.7	0.8	6	SC...09...
	CCGT 120402 FN -PA5 ...	■	■	■													12.9	0.2	8	SC...12...
	CCGT 120404 FN -PA5 ...	■	■	■													12.9	0.4	8	SC...12...
	CCGT 120408 FN -PA5 ...	■	■	■													12.9	0.8	8	SC...12...

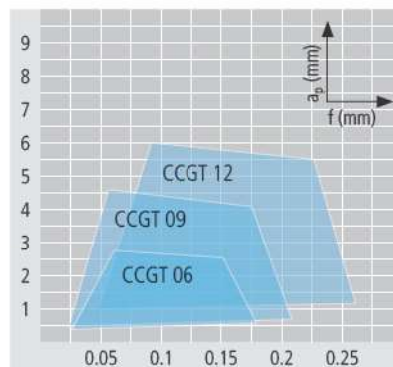
### Application range of chip breaker

multidec®-ISO

#### Properties:

- polished rake
- ground clearance
- sharp cutting edge "F"
- submicrograin carbide, heat and wear resistant

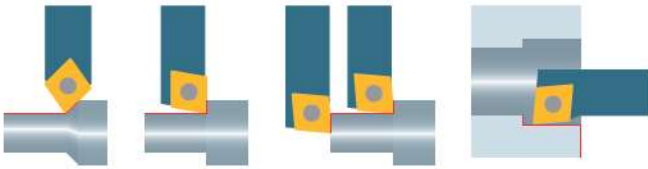
Optimal chip breaking



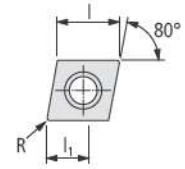
#### Application:

- finishing and micro finishing
- chip breaker for materials with difficult chip control
- stainless steel, alloyed steel, titanium, super alloy, aluminum and synthetics reinforced/composites





CCGT ... -PA7


 $\beta: 27^\circ$   
 $s: \pm 0.13$   
 $C: < 0.002$ 

Order designation	Carbide												20	Cermet			Diamond			Dimensions			Holder
	-	-	●	●	○	●	●	●	●	○	○	○	○	●	●	●	○	○	○	-	-	-	195...
	-	●	●	●	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	-	-	-	
	○	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	l <sub>1</sub>	

### STANDARD-LINE

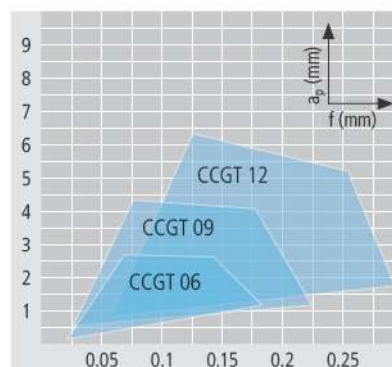
N	CCGT 060202 FN -PA7 ...	■	■	■																6.4	0.2	4	SC...06...
	CCGT 060204 FN -PA7 ...	■	■	■																6.4	0.4	4	SC...06...
	CCGT 09T3005 FN -PA7 ...	■	■	■																9.7	0.05	6	SC...09...
	CCGT 09T301 FN -PA7 ...	■	■	■																9.7	0.1	6	SC...09...
	CCGT 09T302 FN -PA7 ...	■	■	■																9.7	0.2	6	SC...09...
	CCGT 09T304 FN -PA7 ...	■	■	■																9.7	0.4	6	SC...09...
	CCGT 09T308 FN -PA7 ...	■	■	■																9.7	0.8	6	SC...09...
	CCGT 120402 FN -PA7 ...	■	■	■																12.9	0.2	8	SC...12...
	CCGT 120404 FN -PA7 ...	■	■	■																12.9	0.4	8	SC...12...
	CCGT 120408 FN -PA7 ...	■	■	■																12.9	0.8	8	SC...12...

### Application range of chip breaker

#### Properties:

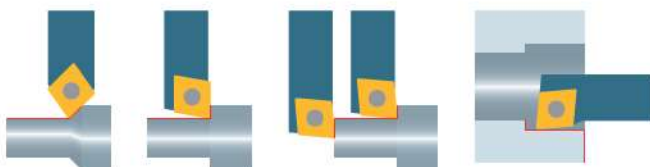
- ground clearance
- sharp cutting edge "F"
- micrograin carbide, heat and wear resistant

Optimal chip breaking

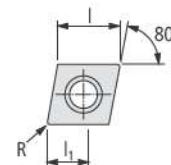


#### Application:

- micro finishing
- chip breaker for materials with good chip control
- stainless steel, alloyed steel, titanium, super alloy, aluminum and synthetics reinforced/ composites



CCXT ... -PA9



$\beta$ : 25°  
s:  $\pm 0.1$   
C:  $< 0.01$

Order designation	Carbide												□ 20	Cermet			Diamond			Dimensions			Holder
	-	-	●	●	○	●	●	●	○	○	●	●	○	●	●	-	-	-	□ 195...				
	-	●	●	●	-	○	○	●	●	●	●	○	○	○	-	-	-						
	○	●	●	●	-	○	○	●	●	●	●	○	○	○	-	-	-						
	-	○	-	-	●	○	-	-	○	○	-	-	-	-	●	●	●						
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	I <sub>1</sub>	

VALUE-LINE

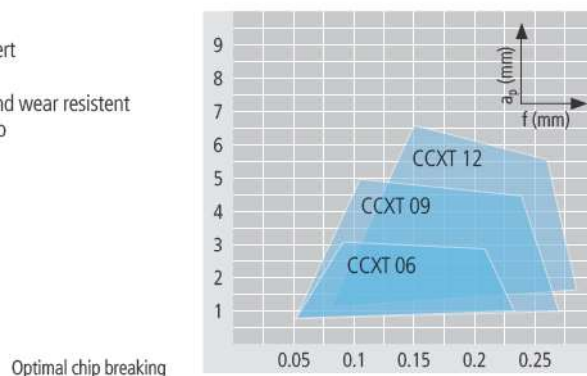
N	CCXT 060204 EN -PA9 ...	■	■	□																6.4	0.4	4		SC...06...
	CCXT 09T304 EN -PA9 ...	■	■	□																9.7	0.4	6		SC...09...
	CCXT 09T308 EN -PA9 ...	■	■	□																9.7	0.8	6		SC...09...

### Application range of chip breaker

*multidec®-ISO*

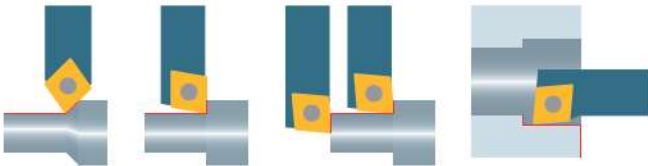
**Properties:**

- high precision sintered insert
- rounded cutting edge "E"
- micrograin carbide, heat and wear resistant
- best performance-cost ratio

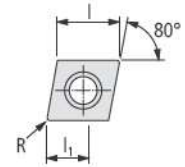


**Application:**

- finishing
- chip breaker for soft materials with good chip control
- alloyed steel, stainless steel, super alloy, titanium and aluminum



CCGT ... -PF


 $\beta: 8^\circ$   
 $s: \pm 0.13$   
 $C: < 0.01$ 

Order designation	Carbide												20	Cermet			Diamond			Dimensions			Holder
	-	-	●	●	○	●	●	●	●	○	○	○	○	●	●	●	○	○	○	-	-	-	195...
	○	●	●	●	-	○	●	●	●	○	○	○	○	○	○	○	○	○	○	-	-	-	
	○	○	○	○	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	-	-	-	
	-	-	●	●	-	○	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	l <sub>1</sub>	

### STANDARD-LINE

N	CCGT 060202 EN -PF ...																				6.4	0.2	1.5		SC...06...
	CCGT 060204 EN -PF ...																				6.4	0.4	1.5		SC...06...
	CCGT 09T302 EN -PF ...																				9.7	0.2	2		SC...09...
	CCGT 09T304 EN -PF ...																				9.7	0.4	2		SC...09...
	CCGT 09T308 EN -PF ...																				9.7	0.8	2		SC...09...
	CCGT 120404 EN -PF ...																				12.9	0.4	3.2		SC...12...

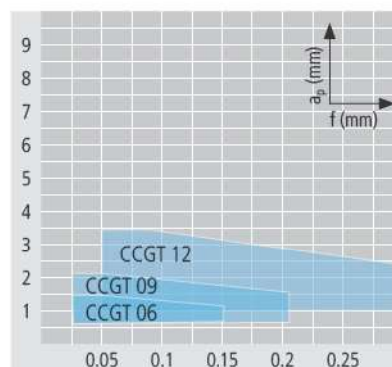
### Application range of chip breaker

multidec®-ISO

#### Properties:

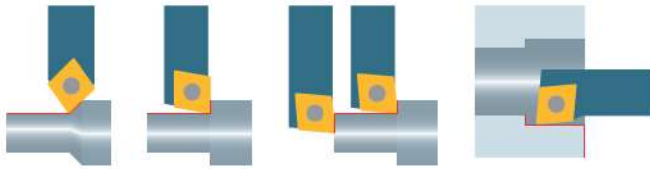
- ground clearance
- little rounded cutting edge "E"
- carbide and cermet in different grades

Optimal chip breaking

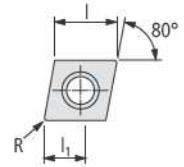


#### Application:

- finishing and micro finishing
- chip breaker for general application
- alloyed steel and stainless steel



CCGT ... FN -PF23



$\beta$ : 12°  
 $s$ :  $\pm 0.13$   
 $C$ :  $< 0.002$

Order designation	Carbide												20	Cermet	Diamond	Dimensions			Holder
	-	-	●	●	○	●	●	●	●	○	○	●	○	●	●	-	-	-	195...
	-	-	●	●	○	●	●	●	●	○	○	●	○	●	●	-	-	-	
	○	○	●	●	-	○	○	○	○	-	-	-	-	-	-	-	-	-	
	○	○	●	●	-	○	○	○	○	-	-	-	-	-	-	-	-	-	
	-	-	●	●	-	○	○	○	○	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20

### STANDARD-LINE

N	CCGT 0602005 FN -PF23 ...				■	■	■		■								6.4	0.05	2	SC...06...
	CCGT 060201 FN -PF23 ...				■	■	■		■								6.4	0.1	2	SC...06...
	CCGT 060202 FN -PF23 ...				■	■	■		■								6.4	0.2	2	SC...06...
	CCGT 09T3005 FN -PF23 ...				■	■	■		■								9.7	0.05	3	SC...09...
	CCGT 09T301 FN -PF23 ...				■	■	■		■								9.7	0.1	3	SC...09...
	CCGT 09T302 FN -PF23 ...				■	■	■		■								9.7	0.2	3	SC...09...

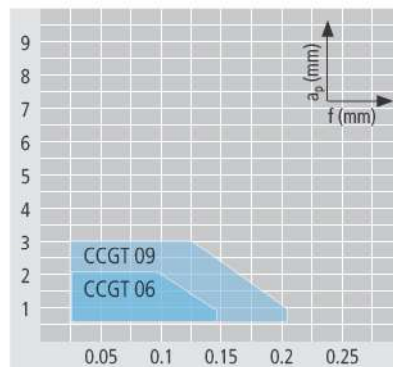
### Application range of chip breaker

multidec®-ISO

#### Properties:

- polished rake
- ground clearance
- sharp cutting edge "F"
- micrograin carbide

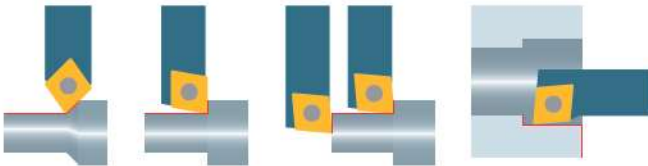
Optimal chip breaking



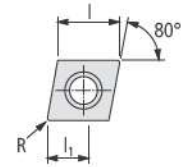
#### Application:

- micro finishing
- chip breaker for materials with difficult chip control
- alloyed steel and stainless steel





CCGT ... EN -PF23


 $\beta: 12^\circ$   
 $s: \pm 0.13$   
 $C: < 0.03$ 

Order designation	Carbide												20	Cermet			Diamond			Dimensions				Holder
	-	-	•	•	○	•	•	•	•	•	•	•	•	•	•	•	•	•	•	-	-	-	-	195...
	○	•	•	•	-	○	•	•	•	•	•	•	•	•	•	•	•	•	•	-	-	-	-	
	•	○	•	•	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	-	-	•	•	-	-	•	•	•	•	•	•	•	-	-	-	-	-	-	•	•	•	•	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	l <sub>1</sub>		

### STANDARD-LINE

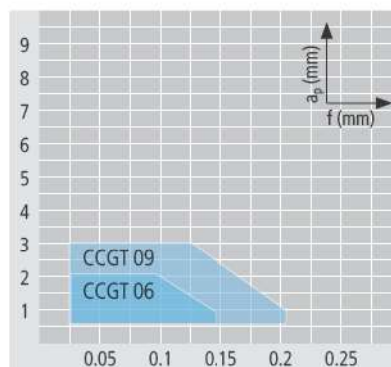
N	CCGT 0602005 EN -PF23 ...				■	■	■													6.4	0.05	2		SC...06...
	CCGT 060201 EN -PF23 ...				■	■	■													6.4	0.1	2		SC...06...
	CCGT 060202 EN -PF23 ...				■	■	■													6.4	0.2	2		SC...06...
	CCGT 09T3005 EN -PF23 ...				■	■	■													9.7	0.05	3		SC...09...
	CCGT 09T301 EN -PF23 ...				■	■	■													9.7	0.1	3		SC...09...
	CCGT 09T302 EN -PF23 ...				■	■	■													9.7	0.2	3		SC...09...

### Application range of chip breaker

#### Properties:

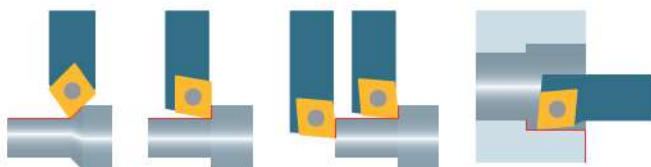
- polished rake
- ground clearance
- little rounded cutting edge "E"
- micrograin carbide

Optimal chip breaking

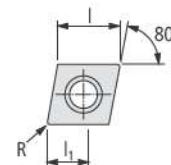


#### Application:

- finishing
- chip breaker for materials with difficult chip control
- alloyed steel and stainless steel



CCMT ... -PF43



$\beta$ : 12°  
 $s$ :  $\pm 0.13$   
 $C$ :  $< 0.02$

Order designation	Carbide												20	Cermet	Diamond	Dimensions			Holder
	-	-	●	●	○	●	●	●	○	○	●	●	○	●	●	-	-	-	195...
	○	●	●	-	-	○	●	●	○	○	●	●	○	●	●	-	-	-	
	●	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20

### VALUE-LINE

N	CCMT 060202 EN -PF43 ...																6.4	0.2	2.6	SC...06...
	CCMT 060204 EN -PF43 ...																6.4	0.4	2.6	SC...06...
	CCMT 09T302 EN -PF43 ...																9.7	0.2	4	SC...09...
	CCMT 09T304 EN -PF43 ...																9.7	0.4	4	SC...09...
	CCMT 09T308 EN -PF43 ...																9.7	0.8	4	SC...09...

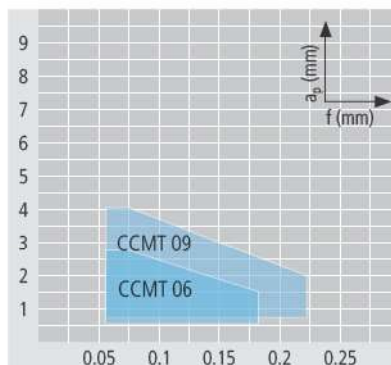
### Application range of chip breaker

multidec®-ISO

#### Properties:

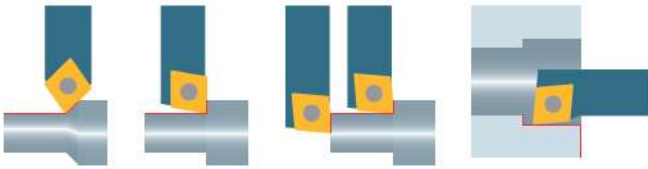
- sintered insert based on ISO standard
- rounded cutting edge "E"
- micrograin carbide

Optimal chip breaking

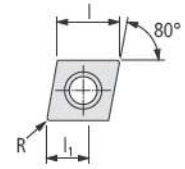


#### Application:

- roughing and finishing
- chip breaker for materials with difficult chip control
- alloyed steel and stainless steel



CCMT ... -PM



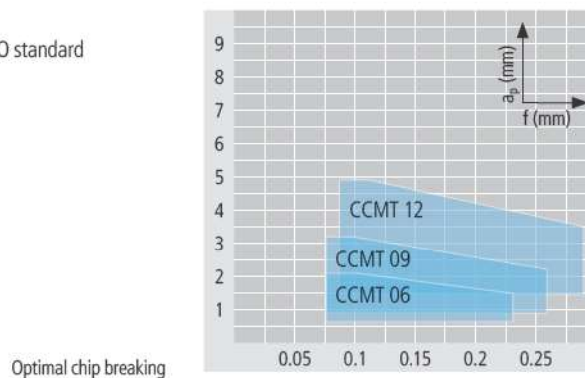
$\beta$ :  $8^\circ$   
 $s$ :  $\pm 0.13$   
 $C$ :  $< 0.02$

N	Order designation	Carbide																		C20			Cermet			Diamond			Dimensions			Holder		
		UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	I <sub>1</sub>											
		CCMT 060204 EN -PM ...				■				■				■								6.4	0.4	2		SC...06...								
		CCMT 060208 EN -PM ...				■								■								6.4	0.8	2		SC...06...								
		CCMT 09T304 EN -PM ...								■				■								9.7	0.4	3.2		SC...09...								
		CCMT 09T308 EN -PM ...								■				■								9.7	0.8	3.2		SC...09...								
		CCMT 120404 EN -PM ...				■				■				■								12.9	0.4	4.8		SC...12...								
		CCMT 120408 EN -PM ...				■				■				■								12.9	0.8	4.8		SC...12...								

### Application range of chip breaker

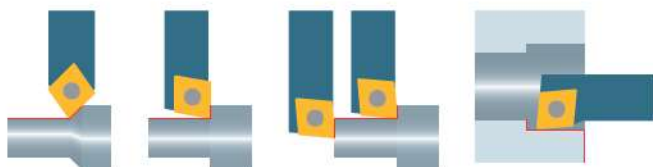
**Properties:**

- sintered insert based on ISO standard
- rounded cutting edge "E"
- micrograin carbide

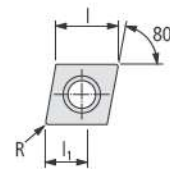


**Application:**

- roughing
- chip breaker for general application
- alloyed steel and stainless steel



CCMT ... -PMF



$\beta$ :  $8^\circ$   
 $s$ :  $\pm 0.13$   
 $C$ :  $< 0.02$

Order designation	Carbide														20	Cermet			Diamond			Dimensions				Holder
	-	-	●	●	○	●	●	●	○	○	○	○	○	○	○	○	○	○	-	-	-	195...				
	○	○	●	●	-	○	○	○	○	○	○	○	○	○	○	○	○	-	-	-						
	○	○	-	-	●	○	○	○	○	○	○	○	○	○	○	○	○	-	-	-						
	-	-	●	●	-	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●						
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	I <sub>1</sub>				
<div>VALUE-LINE</div>																										
	CCMT 060204 EN -PMF ...														■					6.4	0.4	2		SC...06...		
	CCMT 09T304 EN -PMF ...														■					9.7	0.4	3.2		SC...09...		
	CCMT 09T308 EN -PMF ...														■					9.7	0.8	3.2		SC...09...		
	CCMT 120404 EN -PMF ...														■					12.9	0.4	4.8		SC...12...		

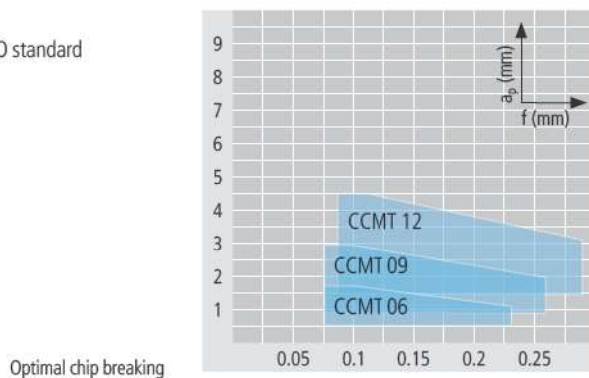
**VALUE-LINE**

### Application range of chip breaker

*multidec®-ISO*

**Properties:**

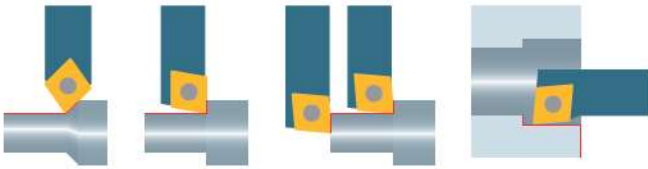
- sintered insert based on ISO standard
- rounded cutting edge "E"
- micrograin carbide



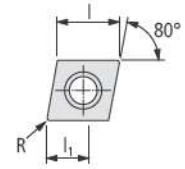
**Application:**

- roughing and finishing
- chip breaker for general application
- alloyed steel and stainless steel





CCMT ... -PM25


 $\beta: 18^\circ$   
 $s: \pm 0.13$   
 $C: < 0.02$ 

Order designation	Carbide																20	Cermet				Diamond				Dimensions				Holder
	-	-	●	●	○	●	●	●	●	○	○	●	●	●	●	○	○	●	●	●	●	-	-	-	-	-	-	-	195...	
	○	●	●	●	-	-	○	●	●	●	○	○	●	●	○	○	○	○	○	○	○	-	-	-	-	-	-	-	-	
	-	-	○	-	-	-	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	●	●	●	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20						I	R	I <sub>1</sub>			
<b>VALUE-LINE</b>																														
<b>N</b>	CCMT 060204 EN -PM25 ...					■																			6.4	0.4	2		SC...06...	
	CCMT 09T304 EN -PM25 ...					■																			9.7	0.4	2.2		SC...09...	
	CCMT 09T308 EN -PM25 ...					■																			9.7	0.8	3.2		SC...09...	

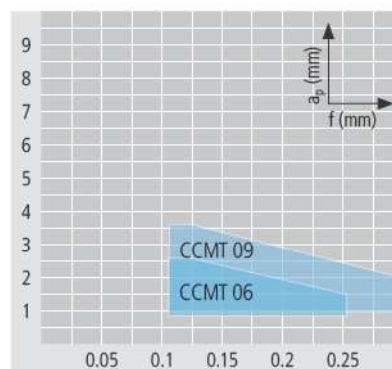
## Application range of chip breaker

multidec®-ISO

## Properties:

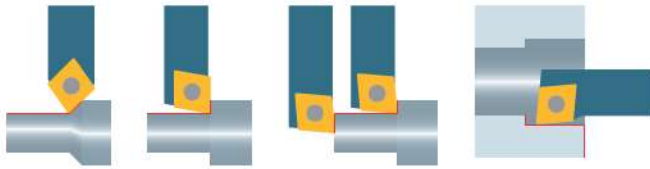
- sintered insert based on ISO standard
- rounded cutting edge "E"
- micrograin carbide

Optimal chip breaking

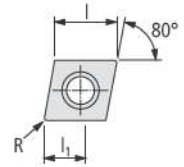


## Application:

- roughing and finishing
- chip breaker for materials with difficult chip control
- stainless steel



CCMT ... -PM55



$\beta$ : 16°  
 $s$ :  $\pm 0.13$   
 $C$ :  $< 0.02$

Order designation	Carbide																20	Cermet			Diamond			Dimensions				Holder	
	-	-	●	●	○	●	●	●	●	○	○	○	●	●	●	○	○	○	-	-	-								
	○	●	●	●	-	○	○	○	○	○	○	○	-	○	○	○	○	○	-	-	-								
	○	○	○	○	-	○	○	○	○	○	○	○	-	○	○	○	○	○	-	-	-								
	-	-	●	●	-	○	○	○	○	-	○	○	-	○	-	○	-	○	○	○	○								
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	I <sub>1</sub>							
	CCMT 060204 EN -PM55 ...				■															6.4	0.4	2.6	SC...06...						
	CCMT 09T304 EN -PM55 ...				■															9.7	0.4	3	SC...09...						
	CCMT 09T308 EN -PM55 ...				■															9.7	0.8	4	SC...09...						
	CCMT120404 EN -PM55 ...				■															12.9	0.4	4	SC...12...						
	CCMT120408 EN -PM55 ...				■															12.9	0.8	4.8	SC...12...						

### VALUE-LINE



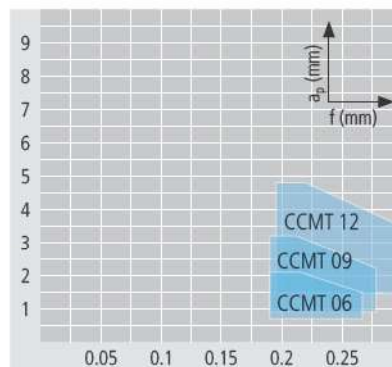
## Application range of chip breaker

multidec®-ISO

### Properties:

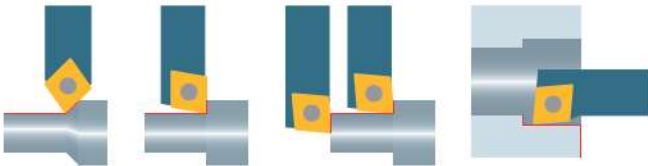
- sintered insert based on ISO standard
- rounded cutting edge "E"
- micrograin carbide

Optimal chip breaking

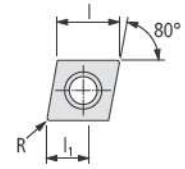




### Application:

- roughing
- chip breaker for general application
- stainless steel



CCET ... -U


 $\beta: 12^\circ$   
 $s: \pm 0.025$   
 $C: < 0.002$ 

Order designation	Carbide												 20	Cermet			Diamond			Dimensions			Holder
	-	-	●	●	○	●	●	●	○	○	○	○	●	●	●	-	-	-					
	-	●	●	-	○	●	●	-	○	○	○	○	●	●	○	-	-	-					
	○	○	-	-	-	○	○	-	-	-	-	-	-	-	-	-	-	-					
	●	○	-	-	●	○	-	-	○	○	-	-	○	-	-	●	●	●					
-	-	●	-	-	-	○	-	-	-	-	-	-	-	-	-	-	-	-					
UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	I <sub>1</sub>		
																						 195...	

### PREMIUM-LINE

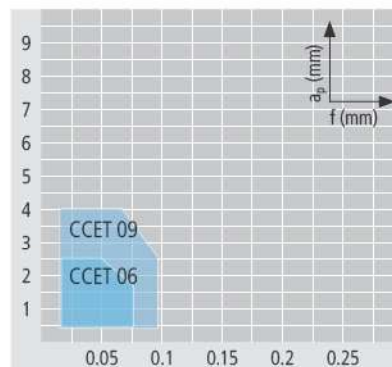
R	CCET 0602003 FR -U ...	■	■	■																	6.4	0.03	2.5		SC...06...
	CCET 060201 FR -U ...	■	■	■																	6.4	0.1	2.5		SC...06...
	CCET 060202 FR -U ...	■	■	■																	6.4	0.2	2.5		SC...06...
	CCET 09T3003 FR -U ...	■	■	■																	9.7	0.03	4		SC...09...
	CCET 09T301 FR -U ...	■	■	■																	9.7	0.1	4		SC...09...
	CCET 09T302 FR -U ...	■	■	■																	9.7	0.2	4		SC...09...

### Application range of chip breaker

#### Properties:

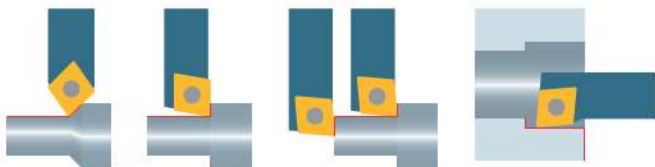
- ground rake and clearance
- sharp cutting edge "F"
- submicrograin carbide, heat and wear resistant and cermet

Optimal chip breaking

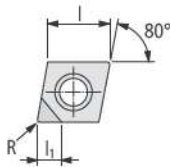


#### Application:

- micro finishing
- chip breaker for materials with difficult chip control
- alloyed steel and stainless steel



CCGT ...



$\beta$ : 7°  
 $s$ :  $\pm 0.13$   
 $C$ :  $< 0.002$

Order designation	Carbide																C20	Cermet			Diamond			Dimensions				Holder
	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•		-	-	-	-	-	-					
	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•		-	-	-	-	-	-					
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•					
	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•		-	-	-	-	-	-					
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20									□ 195...

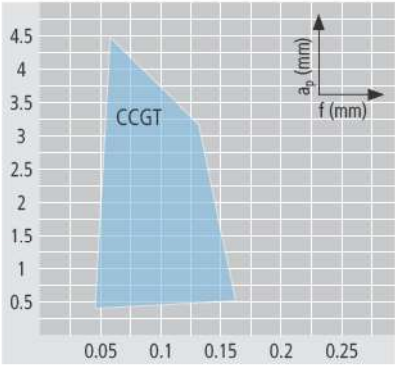
STANDARD-LINE

N	CCGT 060201 FN ...																■	■	6.4	0.1	3.5		SC...06...
	CCGT 060202 FN ...																■	■	6.4	0.2	3.5		SC...06...
	CCGT 060204 FN ...																■	■	6.4	0.4	3.5		SC...06...
	CCGT 09T302 FN ...																■	■	9.7	0.2	4.5		SC...09...
	CCGT 09T304 FN ...																■	■	9.7	0.4	4.3		SC...09...

Application range of chip breaker

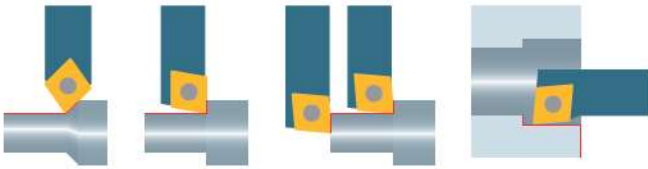
- Properties:
- sharp cutting edge “F”
  - less cutting force
  - positive cut

Optimal chip breaking

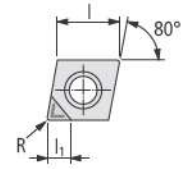


- Application:
- finishing and micro finishing for unstable or thin-walled parts
  - chip breaker for general application will generate continues chip
  - aluminum, brass, copper, bronze, platinum, gold, synthetics and synthetics reinforced/composites
  - Ideal for smallest tolerance and medium surface quality





CCGT ... -UWS



Order designation	Carbide												D 20			Cermet			Diamond			Dimensions			Holder
	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>																								
	-	-	●	●	○	●	●	●	●	○	○	○	●	●	○	●	●	●	-	-	-				
	○	●	●	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	-	-	-				
●	○	○	-	-	○	○	○	○	○	○	○	-	-	○	-	-	-	●	●	●					
-	-	●	-	-	-	-	○	-	-	-	-	-	-	-	-	-	-	●	●	●					
UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	I <sub>1</sub>	□ 195...			

STANDARD-LINE

N	CCGT 060202 FN -UWS ...															■	■		6.4	0.2	3	SC...06...	
	CCGT 060204 FN -UWS ...																■	■		6.4	0.4	3	SC...06...
	CCGT 09T302 FN -UWS ...																	■		9.7	0.2	3	SC...09...
	CCGT 09T304 FN -UWS ...																	■	■	9.7	0.4	3	SC...09...

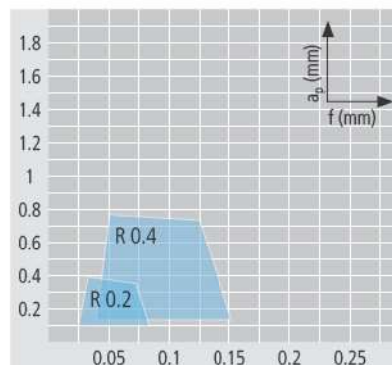
## Application range of chip breaker

multidec®-ISO

## Properties:

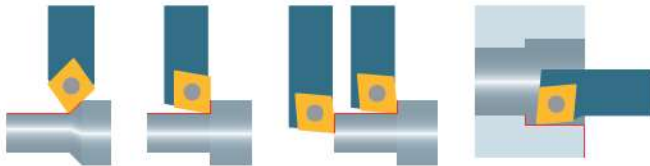
- sharp cutting edge "F"
- almost any cutting force
- high positive narrow chip breaker made by laser

Optimal chip breaking

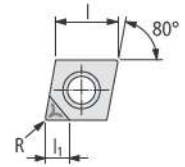


## Application:

- micro finishing for unstable or thin-walled parts
- chip breaker for materials with difficult chip control
- synthetics reinforced/composites, aluminum, platinum, gold and synthetics
- ideal for smallest tolerance and medium surface quality



CCGT ... -UWN



β: 15–20°  
s: ±0.13  
C: <0.005

Order designation	Carbide												20	Cermet	Diamond				Dimensions			Holder
	-	-	•	•	○	•	•	•	•	○	○	•	•	•	•	-	-	-	I	R	l <sub>1</sub>	195...
	○	•	•	•	○	•	•	•	•	○	○	•	•	•	•	-	-	-				
	•	○	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
	-	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20			

### STANDARD-LINE

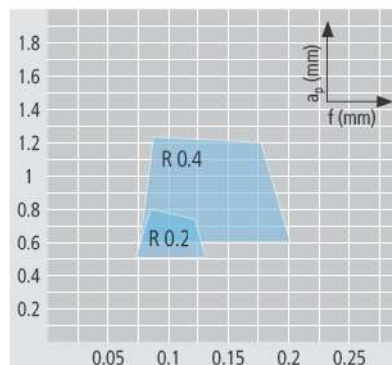
N	CCGT 060202 FN -UWN ...															■	■	6.4	0.2	3		SC...06...
	CCGT 060204 FN -UWN ...															■	■	6.4	0.4	3		SC...06...
	CCGT 09T302 FN -UWN ...															■	■	9.7	0.2	3		SC...09...
	CCGT 09T304 FN -UWN ...															■	■	9.7	0.4	3		SC...09...

### Application range of chip breaker

#### Properties:

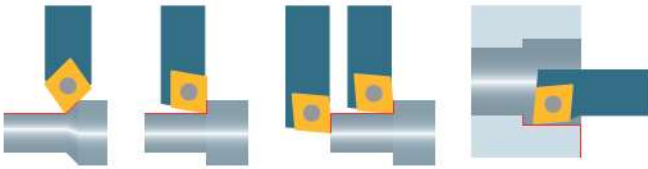
- sharp cutting edge "F"
- higher cutting force
- high positive wide chip breaker made by laser

Optimal chip breaking

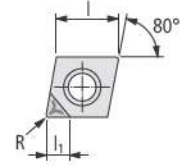


#### Application:

- finishing for stable or solid parts
- chip breaker for materials with difficult chip control
- synthetics reinforced/composites, aluminum, platinum, gold and synthetics
- ideal for smallest tolerance and best surface quality



CCGT ... TOP\* -UWN



Order designation	Carbide												20	Cermet	Diamond			Dimensions			Holder
	-	-	●	●	○	●	●	●	●	○	●	●	○	●	●	●	-	I	R	I <sub>1</sub>	195...
	○	●	●	-	○	●	●	●	●	○	●	●	-	○	-	○	-				
	●	○	○	-	-	○	○	-	-	-	-	-	-	-	-	-	-				
	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20		

### STANDARD-LINE

N	CCGT 060202 FN TOP -UWN ...																6.4	0.2	3		SC...06...
	CCGT 060204 FN TOP -UWN ...																6.4	0.4	3		SC...06...
	CCGT 09T302 FN TOP -UWN ...																9.7	0.2	3		SC...09...
	CCGT 09T304 FN TOP -UWN ...																9.7	0.4	3		SC...09...

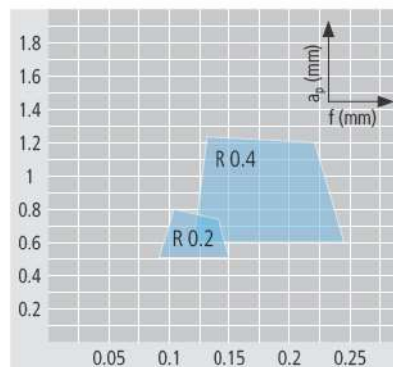
\* Description TOP ..... 13

### Application range of chip breaker

#### Properties:

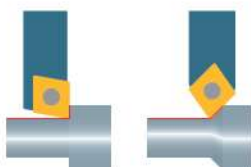
- sharp cutting edge "F"
- higher cutting force
- high positive wide chip breaker made by laser
- TOP system, for a better surface finish

Optimal chip breaking

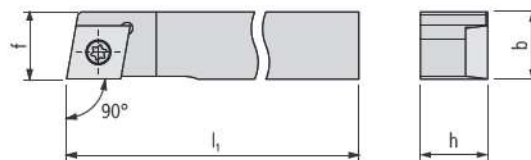


#### Application:

- finishing for stable or solid parts
- chip breaker for materials with difficult chip control
- synthetics reinforced/composites, aluminum, platinum, gold and synthetics
- ideal for smallest tolerance and best surface quality



SCAC... U (90°)



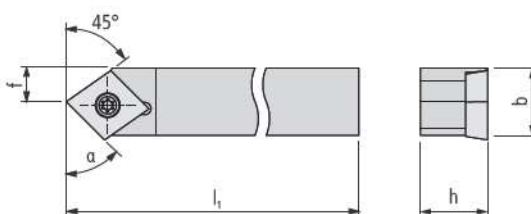
Order designation		Dimensions								Inserts
L	R	b	h	l <sub>1</sub>		f				□ 178...

**STANDARD-LINE**

SCACL 0808 K06 U	■	SCACR 0808 K06 U	■	8	8	125		8		CC..0602..
SCACL 1010 M06 U	■	SCACR 1010 M06 U	■	10	10	150		10		CC..0602..
SCACL 1212 M09 U	■	SCACR 1212 M09 U	■	12	12	150		12		CC..09T3..
SCACL 1616 H09 U	■	SCACR 1616 H09 U	■	16	16	100		16		CC..09T3..
SCACL 2020 K12 U	■	SCACR 2020 K12 U	■	20	20	125		20		CC..1204..



SCDC... U (45°)

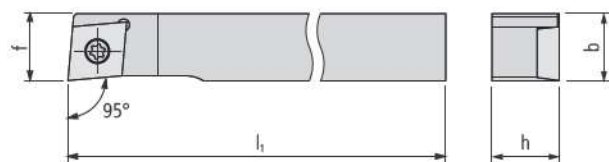
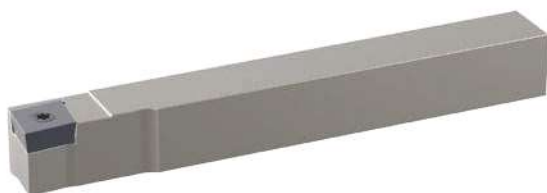
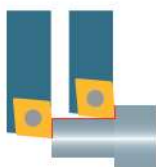


Order designation		Dimensions								Inserts
L	R	b	h	l <sub>1</sub>		f		α		□ 178...

**STANDARD-LINE**

SCDCL 0808 K06 U	■			8	8	125		4	55°	CC..0602..
SCDCL 1010 M06 U	■			10	10	150		5	55°	CC..0602..
SCDCL 1212 M09 U	■			12	12	150		6	55°	CC..09T3..





SCLC... U (95°)

Order designation		Dimensions							Inserts
L	R	h	b	l <sub>1</sub>	f				□178...

STANDARD-LINE

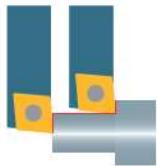
SCLCL 0808 F06 U	■	SCLCR 0808 F06 U	■	8	8	80		7.95		CC..0602..
SCLCL 0808 H06 U	■	SCLCR 0808 H06 U	■	8	8	100		7.95		CC..0602..
SCLCL 1010 F06 U	■	SCLCR 1010 F06 U	■	10	10	80		9.95		CC..0602..
SCLCL 1010 H06 U	■	SCLCR 1010 H06 U	■	10	10	100		9.95		CC..0602..
SCLCL 1212 H09 U	■	SCLCR 1212 H09 U	■	12	12	100		11.95		CC..09T3..
SCLCL 1616 K09 U	■	SCLCR 1616 K09 U	■	16	16	125		15.95		CC..09T3..

SCLC... U (95°) INCH

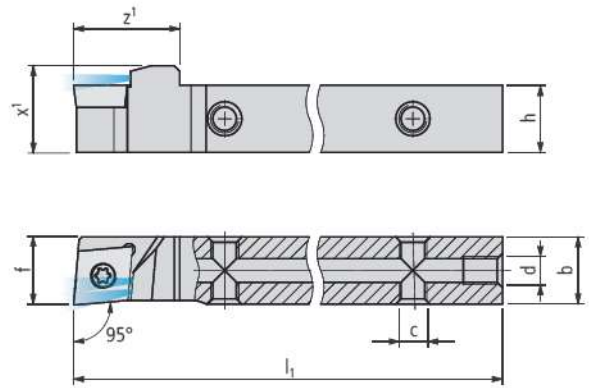
Order designation		Dimensions							Inserts
L	R	h	b	l <sub>1</sub>	f				□178...

STANDARD-LINE

SCLCL 3/8" H06 U	■	SCLCR 3/8" H06 U	■	9.525	9.525	100		9.475		CC..0602..
SCLCL 1/2" H09 U	■	SCLCR 1/2" H09 U	■	12.7	12.7	100		12.65		CC..09T3..
SCLCL 5/8" K09 U	■	SCLCR 5/8" K09 U	■	15.875	15.875	125		15.825		CC..09T3..



With internal cooling



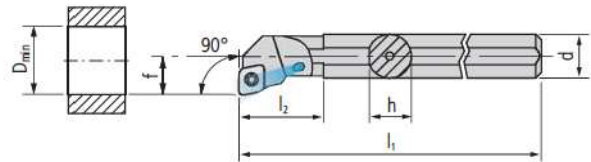
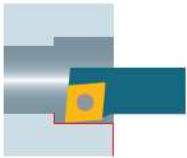
SCLC... U IC (95°)

Order designation				Dimensions								Inserts
L		R		h	b	l <sub>1</sub>	z <sup>1</sup>	x <sup>1</sup>	c	d	f	□ 178...
<b>PREMIUM-LINE</b>												
SCLCL 0808 H06 U IC	■	SCLCR 0808 H06 U IC	■	8	8	100	16	11.5	M5	M5	7.95	CC..0602..
SCLCL 1010 H06 U IC	■	SCLCR 1010 H06 U IC	■	10	10	100	16	13.5	M5	M5	9.95	CC..0602..
SCLCL 1212 H09 U IC	■	SCLCR 1212 H09 U IC	■	12	12	100	19	15.5	M5	M5	11.95	CC..09T3..
SCLCL 1616 K09 U IC	■	SCLCR 1616 K09 U IC	■	16	16	125	19	19.5	M5	G½"	15.95	CC..09T3..

SCLC... U IC (95°) INCH

Order designation				Dimensions								Inserts
L		R		h	b	l <sub>1</sub>	z <sup>1</sup>	x <sup>1</sup>	c	d	f	□ 178...
<b>PREMIUM-LINE</b>												
SCLCL 3/8" H06 U IC	■	SCLCR 3/8" H06 U IC	■	9.525	9.525	100	16	13	M5	M5	9.475	CC..0602...
SCLCL 1/2" H09 U IC	■	SCLCR 1/2" H09 U IC	■	12.7	12.7	100	19	16.2	M5	M5	12.65	CC..09T3..
SCLCL 5/8" K09 U IC	■	SCLCR 5/8" K09 U IC	■	15.875	15.875	125	19	19.4	M5	G½"	15.825	CC..09T3..

**Scope of delivery:** Holder without coolant connector  
Coolant system ..... □ 619...

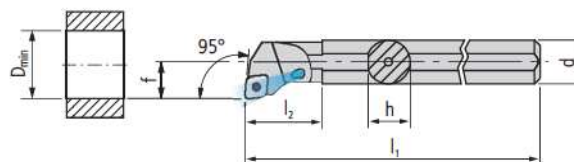
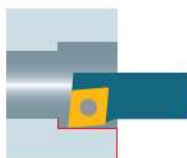


A... SCFC... (90°)

Order designation		Dimensions							Inserts	
L	R	d	h	l <sub>1</sub>	l <sub>2</sub>	f	D <sub>min</sub>		□ 178...	

**STANDARD-LINE**

A08F SCFCL 06	■	A08F SCFCR 06	■	8	7.6	80	17	5	11		CC..0602..
A10H SCFCL 06	■	A10H SCFCR 06	■	10	9.5	100	19	7	13		CC..0602..
A12K SCFCL 06	■	A12K SCFCR 06	■	12	11.5	125	22	9	16		CC..0602..



A... SCLC... (95°)

Order designation				Dimensions								Inserts	
L		R		d	h	l <sub>1</sub>	l <sub>2</sub>	f	D <sub>min</sub>			□ 178...	
STANDARD-LINE													
A08F SCLCL 06	■	A08F SCLCR 06	■	8	7.6	80	17	5	11			CC..0602..	
A10H SCLCL 06	■	A10H SCLCR 06	■	10	9.5	100	19	7	13			CC..0602..	
A12K SCLCL 06	■	A12K SCLCR 06	■	12	11.5	125	22	9	16			CC..0602..	
A16M SCLCL 09	■	A16M SCLCR 09	■	16	15	150	29	11	20			CC..09T3..	
A20Q SCLCL 09	■	A20Q SCLCR 09	■	20	18.5	180	32	13	25			CC..09T3..	

## Replacement and spare parts

multidec®-ISO

### For holders (SC...) OD turning

Illustration	Description	Dimensions	Order designation		Holder
	TORX screw	M2.5 × 6 T08	MSP 25060 T08	■	SC... 06
		M3.5 × 11 T15	MSP 35110 T15	■	SC... 09
		M4.5 × 12 T15	MSP 45120 T15	■	SC... 12

### For holders (... SC...) ID turning

Illustration	Description	Dimensions	Order designation		Holder
	TORX screw	M2.5 × 5 T08	MSP 25050 T08	■	A... SC... 06
		M3.5 × 7.2 T15	MSP 35072 T15	■	A16M SC...09
		M3.5 × 8.6 T15	MSP 35086 T15	■	A20Q SC... 09

TORX screwdriver ..... □ 651...

Legend ..... □ 8...



multidec®-ISO provides a well balanced range of tools for turning with rhombic 55° inserts and holders. Positive inserts with rounded cutting edges for roughing and sharp cutting edges for finishing are available.

These include a wide range of ground holders with hardened and nickel-plated surfaces for Swiss type automatic lathes with shank sizes from 8 to 20 mm and boring bars with diameters from 10 to 20 mm.



**Advantages:**

- Carbide and Cermet grades with chip breaker and coatings for all common materials
- Diamond range with CVD and PCD inserts for machining non-ferrous metals
- Cutting edge radius from 0.03 to 0.8 mm as standard
- Boring bars with steel- and carbide shanks



"IC" tool holder with integrated cooling

Cost-efficient processing of modern materials increasingly requires accurate control of the coolant at the cutting edge. Conveying the coolant as close as possible to the cutting edge is often a difficult task in the machine rooms of Swiss type turning lathes.

The multidec®-IC program offers a wide range of holders with integrated cooling. Because of the high precision and pressure, it is possible to discharge the chip quickly and safely from the cutting edge and the workpiece, which protects the cutting edge of the insert. This means significantly longer tool life as well as very reliable serial production.

**Advantages:**

- All holders feature five possible connectors for the coolant supply
- Constant coolant discharge means low build-up at front near the holder
- With or without high pressure, the coolant medium always hits the cutting edge precisely



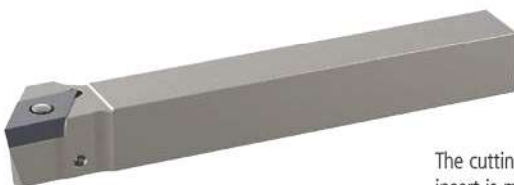
"TWIN" holder with and without integrated coolant supply

The "TWIN" range allows you to work with two inserts on the same holder.

Different combinations are possible, and provide the user with a high degree of flexibility. Holders are available with shank cross-sections of 8 to 20 mm, with and without internal cooling.

**Advantages:**

- Twice the number of tools on the machine
- Two different turning operations are possible with a single tool holder
- All holders with an integrated coolant supply have five connecting options



"FC" holder with quick cutting edge change system (fast change)

The cutting edge can be changed without unclamping the holder using the "FC" holder. The indexable insert is mounted using a specially developed knee lever which is operated using a clamping screw on the rear of the holder.

**Advantages:**

- Quick indexable insert change directly in the machine
- Holder with and without integrated coolant supply

## Inserts (carbide / cermet)



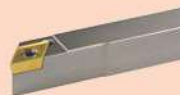
DCGT ... FN -A3, DCGT ... EN -A3	202
DCGT ... -PA3	204
DCGT ... -PA5	205
DCGT ... -TOP5	206
DCGT ... -PA7	207
DCXT ... -PA9	208
DCGT ... FN -PF, DCGT ... EN -PF	209
DCMT ... -PF	211
DCET ... -PF05	212
DCGT ... FN -PF23, DCGT ... EN -PF23	213
DCGT ... FN -PF33, DCGT ... EN -PF33	215
DCMT ... -PF43	217
DCMT ... -PM, DCMT ... -PMF	218
DCMT ... -PM25	220
DCMT ... -PM55	221
DCET ... -U	222

## Inserts (diamond)



DCGT ...	223
DCGT ... -UWS	224
DCGT ... -UWN	225
DCGW ...	226

## Holders (OD turning)



SDAC... U (90°)	227
SDHC... U (107.5°), SDHC... U IC (107.5°)	228
SDJC... U (93°), SDJC... U IC (93°)	230
SDJC... U FC (93°), SDJC... U FC IC (93°)	232
SDNC... U (62.5°), SDNC... U IC (62.5°)	234
SDNCN ... U (62.5°), SDNCN ... U IC (62.5°)	236
SDJC. (93°)/1600... TWIN, SDJC. (93°)/1600... IC TWIN	238

## Holders (ID turning)



SDHC... (107.5°), SDHC... IC (107.5°)	240
A... SDOC... (95°), A... SDQC... (107.5°)	242
SDUC... (93°), SDUC... IC (93°)	244
A... SDUC... (93°)	246

## Replacement and spare parts

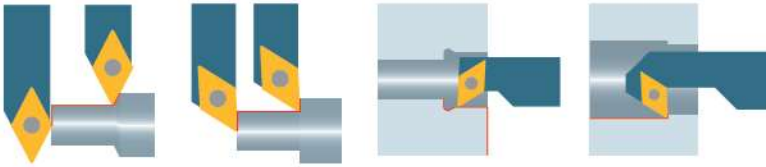


247

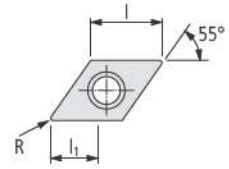
## Coolant system and accessories



619



DCGT ... FN -A3



$\beta$ :  $30^\circ$   
 $s$ :  $\pm 0.13$   
 $C$ :  $< 0.002$

Order designation	Carbide																D 20				Cermet				Diamond			Dimensions			Holder
	-	-	●	●	○	●	●	●	●	○	○	●	●	○	●	●	●	-	-	-											
	-	●	●	-	○	●	●	●	○	○	●	●	○	○	●	●	○	-	-	-											
	○	●	●	-	○	●	●	●	-	○	○	●	●	-	○	○	○	-	-	-											
●	○	-	-	●	○	-	-	○	○	-	-	-	-	○	-	-	●	●	●												
-	-	●	-	-	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-												
UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20													

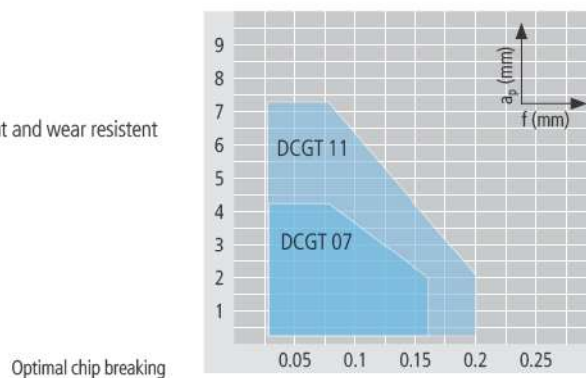
**STANDARD-LINE**

2	DCGT 0702006 FN -A3 ...	■	■	■		■	■	■										7.75	0.06	4.1	SD...07...
	DCGT 0702015 FN -A3 ...	■	■	■		■	■	■										7.75	0.15	4.1	SD...07...
	DCGT 0702035 FN -A3 ...	■	■	■		■	■	■										7.75	0.35	4.1	SD...07...
	DCGT 11T3008 FN -A3 ...	■	■	■		■	■	■										11.6	0.08	7.2	SD...11...
	DCGT 11T3015 FN -A3 ...	■	■	■		■	■	■										11.6	0.15	7.2	SD...11...
	DCGT 11T3035 FN -A3 ...	■	■	■		■	■	■										11.6	0.35	7.2	SD...11...

### Application range of chip breaker

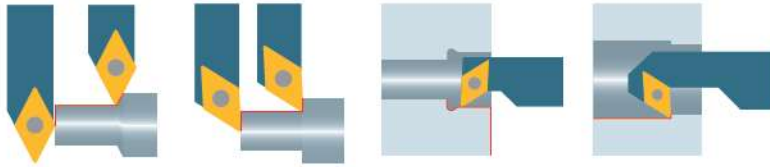
**Properties:**

- polished rake
- ground clearance
- sharp cutting edge "F"
- submicrograin carbide, heat and wear resistant

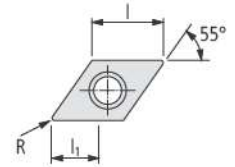


**Application:**

- micro finishing
- chip breaker for general application
- stainless steel, alloyed steel, titanium, super alloy, aluminum and synthetics reinforced/composites



DCGT ... EN -A3



$\beta$ : 30°  
 $s$ :  $\pm 0.13$   
 $C$ : <0.03

Order designation	Carbide												20	Cermet			Diamond			Dimensions				Holder	
	-	-	●	●	○	●	●	●	○	○	●	●	○	●	●	○	●	●	○	-	-	-	-	-	227...
	○	●	●	●	-	○	●	●	○	○	●	●	○	○	○	○	○	○	○	-	-	-	-	-	-
	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	●	●	-	-	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20						

### STANDARD-LINE

N	DCGT 0702006 EN -A3 ...				■	■	■													7.75	0.06	4.1		SD...07...
	DCGT 0702015 EN -A3 ...				■	■	■													7.75	0.15	4.1		SD...07...
	DCGT 0702035 EN -A3 ...				■	■	■													7.75	0.35	4.1		SD...07...
	DCGT 11T3008 EN -A3 ...				■	■	■													11.6	0.08	7.2		SD...11...
	DCGT 11T3015 EN -A3 ...				■	■	■													11.6	0.15	7.2		SD...11...
	DCGT 11T3035 EN -A3 ...				■	■	■													11.6	0.35	7.2		SD...11...

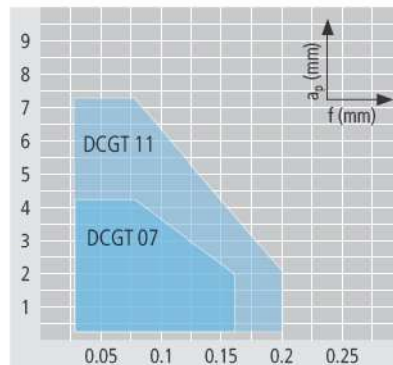
### Application range of chip breaker

multidec®-ISO

#### Properties:

- polished rake
- ground clearance
- little rounded cutting edge "E"
- submicrograin carbide, heat and wear resistant

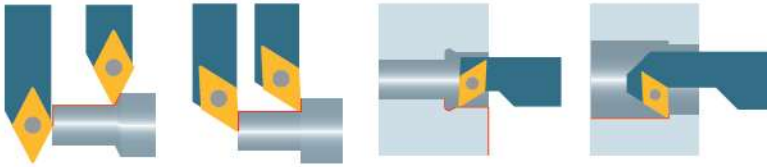
Optimal chip breaking



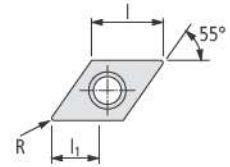
#### Application:

- finishing
- chip breaker for general application
- stainless steel, alloyed steel, titanium, super alloy, aluminum and synthetics reinforced/composites





DCGT ... -PA3


 $\beta: 30^\circ$   
 $s: \pm 0.13$   
 $C: < 0.002$ 

Order designation	Carbide												20	Cermet			Diamond			Dimensions				Holder
	-	-	●	●	○	●	●	●	●	○	●	●	○	●	●	●	●	●	●	-	-	-	-	227...
	-	●	●	●	○	●	●	●	●	○	●	●	○	●	●	●	●	●	●	-	-	-	-	
	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	-	-	-	-	
	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	L	R	L <sub>1</sub>		
<b>STANDARD-LINE</b>																								
N	DCGT 070204 FN-PA3 ...	■	■	■																7.75	0.4	4		SD...07...
	DCGT 11T304 FN-PA3 ...	■	■	■																11.6	0.4	6.2		SD...11...
	DCGT 11T308 FN-PA3 ...	■	■	■																11.6	0.8	6.2		SD...11...

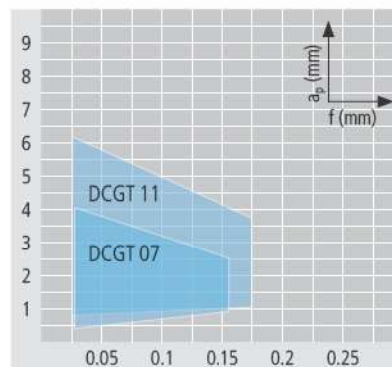
## Application range of chip breaker

multidec®-ISO

### Properties:

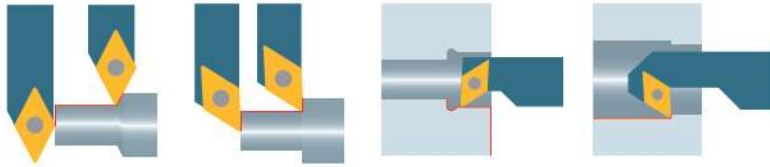
- polished rake
- ground clearance
- sharp cutting edge "F"
- micrograin carbide, heat and wear resistant

Optimal chip breaking

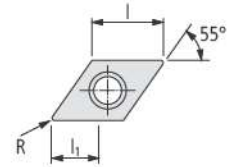


### Application:

- micro finishing
- chip breaker for materials with difficult chip control
- stainless steel, alloyed steel, titanium, super alloy, aluminum and synthetics reinforced/ composites



DCMT ... -PA5



$\beta$ : 25°  
 $s$ :  $\pm 0.13$   
 $C$ :  $< 0.002$

Order designation	Carbide												20	Cermet			Diamond			Dimensions				Holder
	-	-	●	●	○	●	●	●	○	○	●	●	○	●	●	●	○	○	○	-	-	-	-	227...
	-	○	●	●	-	○	●	●	○	○	●	●	○	○	○	○	○	○	○	-	-	-	-	
	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	●	●	-	○	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	L	R	l <sub>1</sub>		

### STANDARD-LINE

N	DCMT 070202 FN -PA5 ...	■	■	■																7.75	0.2	4.1		SD...07...
	DCMT 070204 FN -PA5 ...	■	■	■																7.75	0.4	4.1		SD...07...
	DCMT 11T302 FN -PA5 ...	■	■	■																11.6	0.2	7.2		SD...11...
	DCMT 11T304 FN -PA5 ...	■	■	■																11.6	0.4	7.2		SD...11...
	DCMT 11T308 FN -PA5 ...	■	■	■																11.6	0.8	7.2		SD...11...

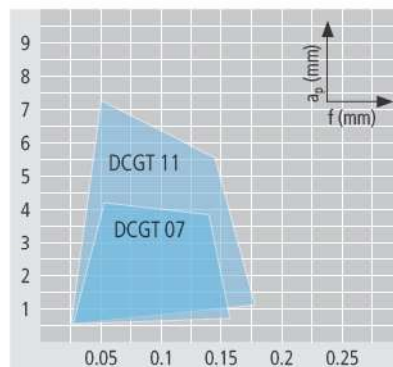
### Application range of chip breaker

multidec®-ISO

#### Properties:

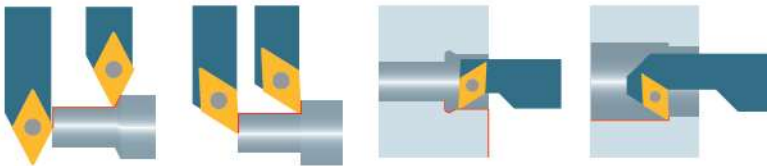
- polished rake
- ground clearance
- sharp cutting edge "F"
- submicrograin carbide, heat and wear resistant

Optimal chip breaking

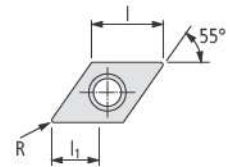


#### Application:

- finishing and micro finishing
- chip breaker for materials with difficult chip control
- stainless steel, alloyed steel, titanium, super alloy, aluminum and synthetics reinforced/composites



DCGT ... -TOP5\*


 $\beta: 25^\circ$   
 $s: \pm 0.13$   
 $C: < 0.002$ 

Order designation	Carbide												20	Cermet	Diamond	Dimensions				Holder
	-	-	●	●	○	●	●	●	●	○	○	○	○	●	●	●	-	-	-	227...
	-	-	●	●	○	●	●	●	●	○	○	○	○	●	●	●	-	-	-	
	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	●	●	-	○	○	○	○	-	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	

### STANDARD-LINE

L	DCGT 11T304 FL-TOP5 ...	■	■	■													11.6	0.4	7.2	SD...11...
	DCGT 11T308 FL-TOP5 ...	■	■	■													11.6	0.8	7.2	SD...11...
N	DCGT 11T304 FN-TOP5 ...	■	■	■													11.6	0.4	7.2	SD...11...
	DCGT 11T308 FN-TOP5 ...	■	■	■													11.6	0.8	7.2	SD...11...
R	DCGT 11T304 FR-TOP5 ...	■	■	■													11.6	0.4	7.2	SD...11...
	DCGT 11T308 FR-TOP5 ...	■	■	■													11.6	0.8	7.2	SD...11...

\* Description TOP ..... 13

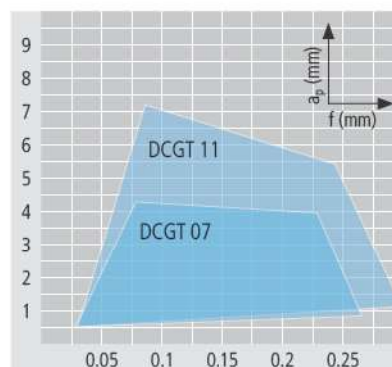
### Application range of chip breaker

multidec®-ISO

#### Properties:

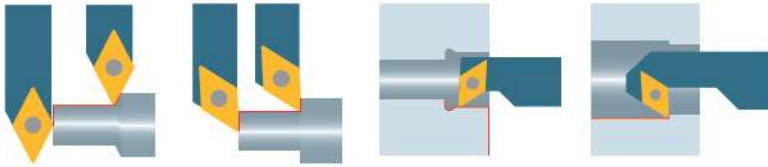
- polished rake and ground clearance
- sharp cutting edge "F"
- micrograin carbide, heat and wear resistant
- TOP system, for a better surface finish

Optimal chip breaking

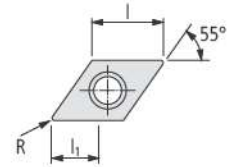


#### Application:

- finishing for 20–100 % higher feed rates compared to the standard
- chip breaker for materials with difficult chip control
- stainless steel, alloyed steel, titanium, super alloy, aluminum and synthetics reinforced/composites



DCGT ... -PA7



$\beta$ : 27°  
 $s$ :  $\pm 0.13$   
 $C$ :  $< 0.002$

Order designation	Carbide												20	Cermet	Diamond	Dimensions				Holder
	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	-	-	-	-	□ 227...
	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	-	-	-	-	
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	-	-	-	-	
	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	

### STANDARD-LINE

N	DCGT 0702005 FN-PA7 ...	■	■	■													7.75	0.05	4	SD...07...
	DCGT 070201 FN-PA7 ...	■	■	■													7.75	0.1	4	SD...07...
	DCGT 070202 FN-PA7 ...	■	■	■													7.75	0.2	4	SD...07...
	DCGT 070204 FN-PA7 ...	■	■	■													7.75	0.4	4	SD...07...
	DCGT 11T3005 FN-PA7 ...	■	■	■													11.6	0.05	7.2	SD...11...
	DCGT 11T301 FN-PA7 ...	■	■	■													11.6	0.1	7.2	SD...11...
	DCGT 11T302 FN-PA7 ...	■	■	■													11.6	0.2	7.2	SD...11...
	DCGT 11T304 FN-PA7 ...	■	■	■													11.6	0.4	7.2	SD...11...
	DCGT 11T308 FN-PA7 ...	■	■	■													11.6	0.8	7.2	SD...11...

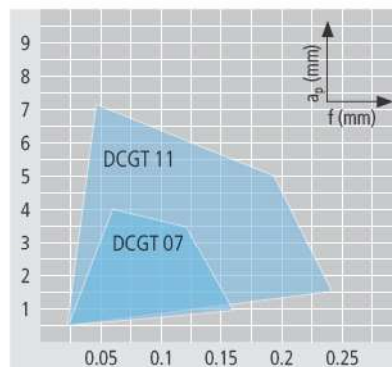
### Application range of chip breaker

multidec®-ISO

#### Properties:

- ground clearance
- sharp cutting edge "F"
- micrograin carbide, heat and wear resistant

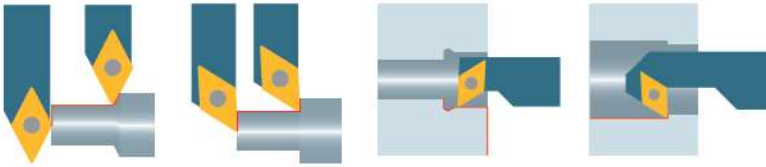
Optimal chip breaking



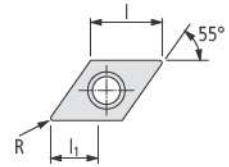
#### Application:

- micro finishing
- chip breaker for materials with good chip control
- stainless steel, alloyed steel, titanium, super alloy, aluminum and synthetics reinforced/composites





DCXT ... -PA9



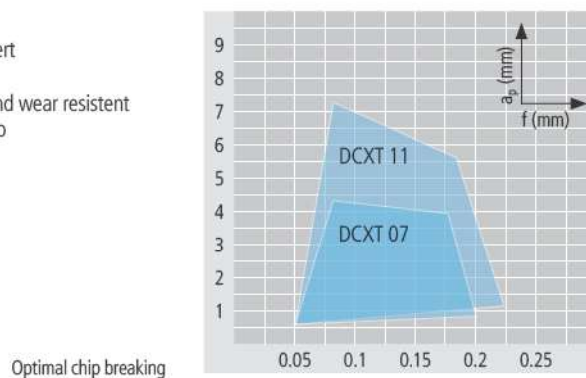
$\beta$ :  $25^\circ$   
s:  $\pm 0.1$   
C:  $< 0.01$

[illegible]

### Application range of chip breaker

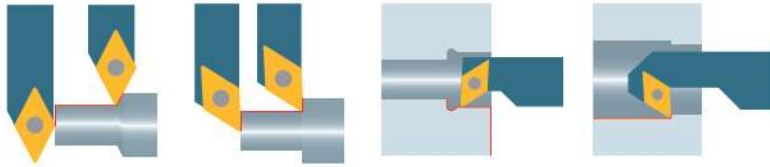
**Properties:**

- high precision sintered insert
- rounded cutting edge "E"
- micrograin carbide, heat and wear resistant
- best performance-cost ratio

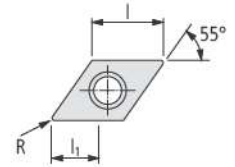


**Application:**

- finishing
- chip breaker for soft materials with good chip control
- alloyed steel, stainless steel, super alloy, titanium and aluminum



DCGT ... FN -PF



$\beta$ : 8°  
 $s$ :  $\pm 0.13$   
 $C$ :  $< 0.002$

Order designation	Carbide												20	Cermet			Diamond			Dimensions				Holder
	-	-	●	●	○	●	●	●	○	○	●	●	○	●	●	●	●	●	●	-	-	-	-	□ 227...
	○	●	●	-	-	○	●	●	○	○	●	●	○	○	○	○	○	○	○	-	-	-	-	
	○	○	○	-	-	○	○	○	-	-	○	○	-	○	-	-	-	-	-	-	-	-	-	
	-	-	●	●	-	○	○	○	-	-	○	○	-	○	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	L	R	l <sub>1</sub>		

### STANDARD-LINE

N	DCGT 070201 FN -PF ...				■	■	■		■											7.75	0.1	2.8		SD...07...
	DCGT 070202 FN -PF ...				■	■	■		■											7.75	0.2	2.8		SD...07...
	DCGT 11T302 FN -PF ...				■	■	■		■											11.6	0.2	3.9		SD...11...
	DCGT 11T304 FN -PF ...				■	■	■		■											11.6	0.4	3.9		SD...11...

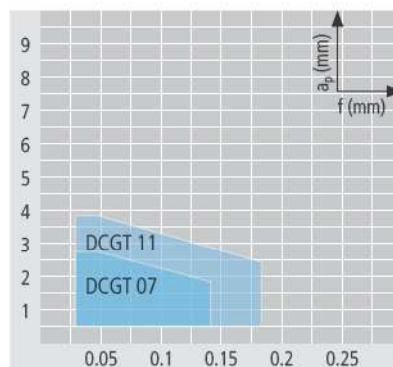
### Application range of chip breaker

multidec®-ISO

#### Properties:

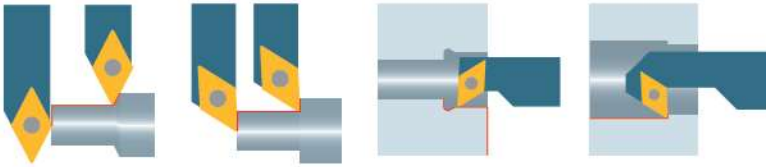
- ground clearance
- sharp cutting edge "F"
- carbide and cermet in different grades

Optimal chip breaking

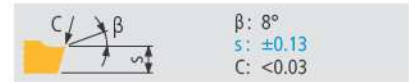
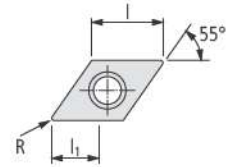


#### Application:

- finishing and micro finishing
- chip breaker for general application
- alloyed steel and stainless steel



DCGT ... EN -PF


 $\beta: 8^\circ$   
 $s: \pm 0.13$   
 $C: < 0.03$ 

Order designation	Carbide												20	Cermet			Diamond			Dimensions				Holder
	-	-	●	●	○	●	●	●	○	○	●	●	○	●	●	●	○	○	○	-	-	-	-	□ 227...
	○	●	●	-	○	●	●	○	○	○	●	●	○	○	○	○	○	○	○	-	-	-	-	
	○	○	○	-	-	○	○	-	-	-	○	○	-	-	-	-	-	-	-	-	-	-	-	
	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	L <sub>1</sub>		

### STANDARD-LINE

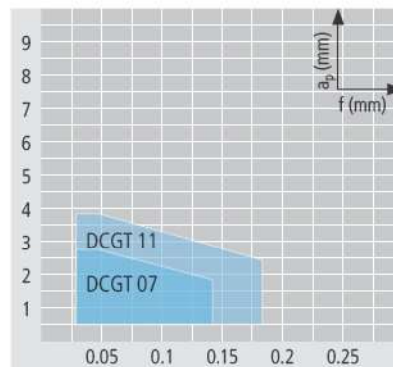
N	DCGT 070201 EN -PF ...													■	■					7.75	0.1	2.8		SD...07...
	DCGT 070202 EN -PF ...							■						■	■	■				7.75	0.2	2.8		SD...07...
	DCGT 070204 EN -PF ...													■	■	■				7.75	0.4	2.8		SD...07...
	DCGT 11T302 EN -PF ...													■	■	■				11.6	0.2	3.9		SD...11...
	DCGT 11T304 EN -PF ...													■	■	■				11.6	0.4	3.9		SD...11...
	DCGT 11T308 EN -PF ...													■	■	■				11.6	0.8	3.9		SD...11...

### Application range of chip breaker

#### Properties:

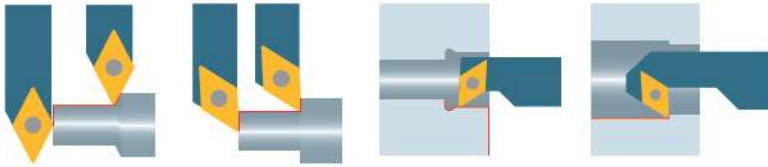
- ground clearance
- little rounded cutting edge "E"
- carbide and cermet in different grades

Optimal chip breaking

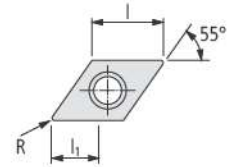


#### Application:

- finishing
- chip breaker for general application
- alloyed steel and stainless steel



DCMT ... -PF



$\beta$ : 8°  
 $s$ :  $\pm 0.13$   
 $C$ :  $< 0.02$

Order designation	Carbide												20	Cermet			Diamond			Dimensions			Holder
	-	-	●	●	○	●	●	●	○	○	●	●	○	●	●	●	●	●	●	-	-	-	□ 227...
	○	●	●	-	-	○	●	●	○	○	●	●	○	○	○	○	○	○	○	-	-	-	
	○	○	○	-	-	○	○	○	-	-	○	○	○	-	-	-	-	-	-	-	-	-	
	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	L	R	l <sub>1</sub>	
<b>VALUE-LINE</b>																							
<b>N</b>	DCMT 070204 EN -PF ...			■				■				■								7.75	0.4	2.9	SD...07...
	DCMT 11T304 EN -PF ...			■				■				■								11.6	0.4	4.4	SD...11...
	DCMT 11T308 EN -PF ...			■				■				■								11.6	0.8	4.4	SD...11...

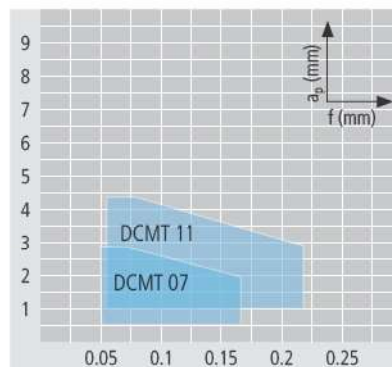
## Application range of chip breaker

multidec®-ISO

### Properties:

- sintered insert based on ISO standard
- rounded cutting edge "E"
- carbide and cermet in different grades

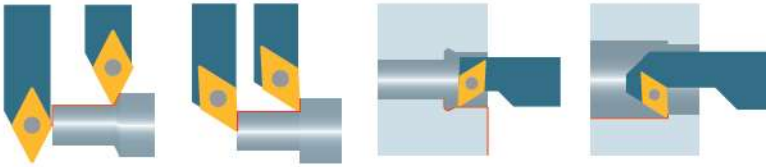
Optimal chip breaking



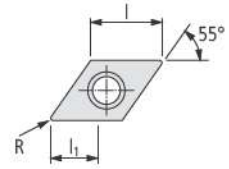
### Application:

- roughing
- chip breaker for general application
- alloyed steel and stainless steel





DCET ... -PF05


 $\beta: 18^\circ$   
 $s: \pm 0.025$   
 $C: < 0.002$ 

Order designation	Carbide												20	Cermet			Diamond			Dimensions				Holder
	-	-	●	●	○	●	●	●	●	○	○	○	○	●	●	●	●	●	●	-	-	-	-	227...
	-	●	●	●	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●	-	-	-	-	
	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	L	R	L <sub>1</sub>		

### PREMIUM-LINE

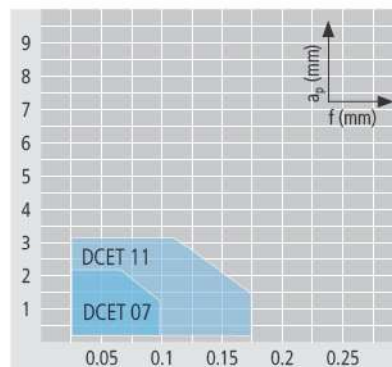
N	DCET 0702005 FN -PF05	■																		7.75	0.05	2		SD...07...
	DCET 070201 FN -PF05	■																		7.75	0.1	2		SD...07...
	DCET 0702015 FN -PF05	■																		7.75	0.15	2		SD...07...
	DCET 070202 FN -PF05	■																		7.75	0.2	2		SD...07...
	DCET 11T3005 FN -PF05	■																		11.6	0.05	3		SD...11...
	DCET 11T301 FN -PF05	■																		11.6	0.1	3		SD...11...
	DCET 11T3015 FN -PF05	■																		11.6	0.15	3		SD...11...
	DCET 11T302 FN -PF05	■																		11.6	0.2	3		SD...11...
	DCET 11T304 FN -PF05	■																		11.6	0.4	3		SD...11...

### Application range of chip breaker

#### Properties:

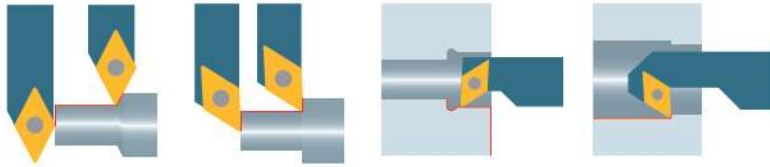
- polished rake
- ground clearance
- sharp cutting edge "F"
- submicrograin carbide, heat and wear resistant

Optimal chip breaking

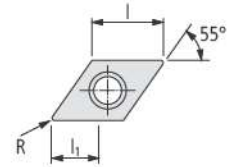


#### Application:

- micro finishing
- chip breaker for materials with difficult chip control
- stainless steels, titanium, super alloys, aluminium and GRP/CRP



DCGT ... FN -PF23



$\beta: 12^\circ$   
 $s: \pm 0.13$   
 $C: < 0.002$

Order designation	Carbide												20	Cermet			Diamond			Dimensions				Holder
	-	-	●	●	○	●	●	●	○	○	●	●	○	●	●	●	○	○	○	-	-	-	-	□ 227...
	○	●	●	●	-	○	●	●	○	○	●	●	○	○	○	○	○	○	○	-	-	-	-	
	○	○	-	-	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	●	●	-	-	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	l <sub>1</sub>		

### STANDARD-LINE

N	DCGT 0702005 FN -PF23 ...				■	■	■		■											7.75	0.05	3.6		SD...07...
	DCGT 070201 FN -PF23 ...				■	■	■		■											7.75	0.1	3.6		SD...07...
	DCGT 070202 FN -PF23 ...				■	■	■		■											7.75	0.2	3.6		SD...07...
	DCGT 11T3005 FN -PF23 ...				■	■	■		■											11.6	0.05	5.2		SD...11...
	DCGT 11T301 FN -PF23 ...				■	■	■		■											11.6	0.1	5.2		SD...11...
	DCGT 11T302 FN -PF23 ...				■	■	■		■											11.6	0.2	5.2		SD...11...

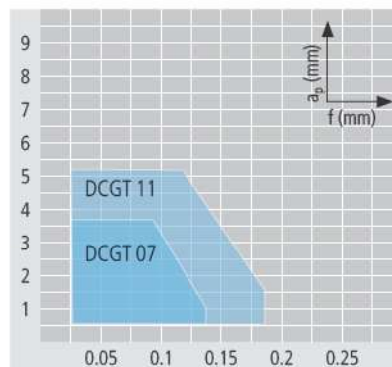
### Application range of chip breaker

multidec®-ISO

#### Properties:

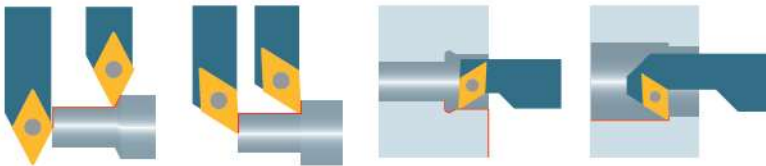
- polished rake
- ground clearance
- sharp cutting edge "F"
- micrograin carbide

Optimal chip breaking

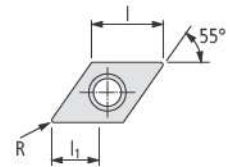


#### Application:

- micro finishing
- chip breaker for materials with difficult chip control
- alloyed steel and stainless steel



DCGT ... EN -PF23


 $\beta: 12^\circ$   
 $s: \pm 0.13$   
 $C: < 0.03$ 

Order designation	Carbide												20	Cermet			Diamond			Dimensions			Holder
	-	-	●	●	○	●	●	●	○	○	●	●	○	●	●	●	○	○	○	-	-	-	□ 227...
	-	●	●	●	-	○	●	●	○	○	●	●	-	○	○	○	○	○	○	-	-	-	
	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	L	R	l <sub>1</sub>	

### STANDARD-LINE

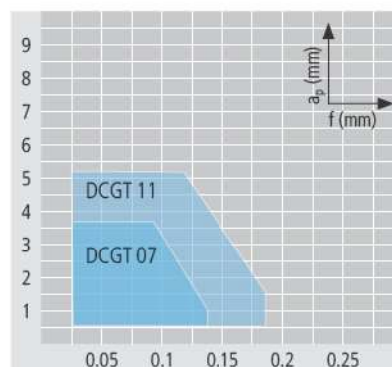
N	DCGT 0702003 EN -PF23 ...																							7.75	0.03	3.6		SD...07...
	DCGT 0702005 EN -PF23 ...																							7.75	0.05	3.6		SD...07...
	DCGT 070201 EN -PF23 ...																							7.75	0.1	3.6		SD...07...
	DCGT 070202 EN -PF23 ...																							7.75	0.2	3.6		SD...07...
	DCGT 11T3005 EN -PF23 ...																							11.6	0.05	5.2		SD...11...
	DCGT 11T301 EN -PF23 ...																							11.6	0.1	5.2		SD...11...
	DCGT 11T302 EN -PF23 ...																							11.6	0.2	5.2		SD...11...

### Application range of chip breaker

#### Properties:

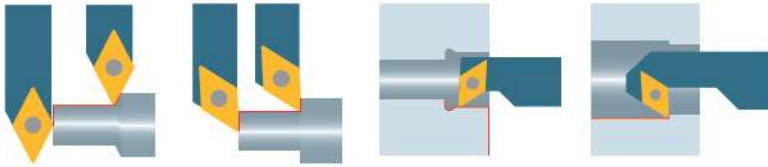
- polished rake
- ground clearance
- little rounded cutting edge "E"
- micrograin carbide

Optimal chip breaking

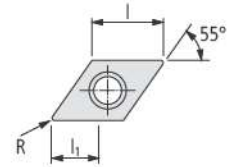


#### Application:

- finishing
- chip breaker for materials with difficult chip control
- alloyed steel and stainless steel



DCGT ... FN -PF33



$\beta: 12^\circ$   
 $s: \pm 0.13$   
 $C: < 0.002$

Order designation	Carbide												20	Cermet	Diamond	Dimensions			Holder
	-	-	●	●	○	●	●	●	●	○	○	●	●	●	●	-	-	-	□ 227...
	-	○	●	●	○	●	●	●	●	○	○	●	●	●	●	-	-	-	
	○	○	●	●	○	●	●	●	●	○	○	●	●	●	●	-	-	-	
	●	○	●	●	○	●	●	●	●	○	○	●	●	●	●	-	-	-	
	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20
	I	R	I <sub>1</sub>																

### STANDARD-LINE

N	DCGT 0702005 FN -PF33 ...				■	■	■		■								7.75	0.05	3.6	SD...07...
	DCGT 070201 FN -PF33 ...				■	■	■		■								7.75	0.1	3.6	SD...07...
	DCGT 070202 FN -PF33 ...				■	■	■		■								7.75	0.2	3.6	SD...07...
	DCGT 070204 FN -PF33 ...				■	■	■		■								7.75	0.4	3.6	SD...07...
	DCGT 11T3005 FN -PF33 ...				■	■	■		■								11.6	0.05	5.2	SD...11...
	DCGT 11T301 FN -PF33 ...				■	■	■		■								11.6	0.1	5.2	SD...11...
	DCGT 11T302 FN -PF33 ...				■	■	■		■								11.6	0.2	5.2	SD...11...
	DCGT 11T304 FN -PF33 ...				■	■	■		■								11.6	0.4	5.2	SD...11...

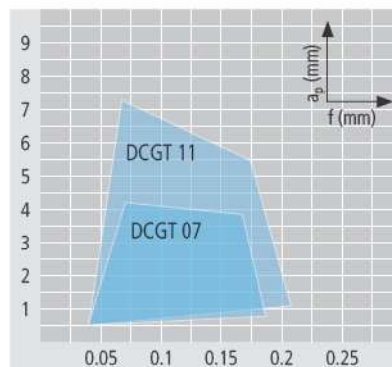
### Application range of chip breaker

multidec®-ISO

#### Properties:

- polished rake
- ground clearance
- sharp cutting edge "F"
- micrograin carbide

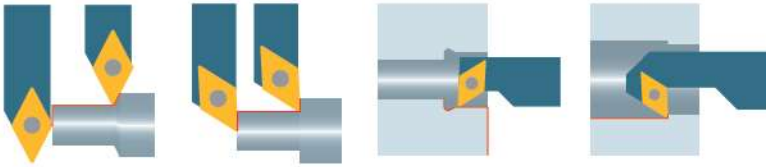
Optimal chip breaking



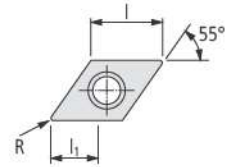
#### Application:

- micro finishing
- chip breaker for materials with difficult chip control
- alloyed steel and stainless steel





DCMT ... EN -PF33


 $\beta: 12^\circ$   
 $s: \pm 0.13$   
 $C: < 0.03$ 

Order designation	Carbide																20	Cermet			Diamond			Dimensions			Holder
	-	-	●	●	○	●	●	●	●	○	●	●	●	○	●	●	●	-	-	-							
	-	●	●	-	○	●	●	●	○	●	●	●	●	○	●	●	○	-	-	-							
	○	●	●	-	○	●	●	●	-	○	○	○	●	-	○	●	○	-	-	-							
	○	○	-	-	-	○	-	-	-	○	-	-	-	○	-	-	-	●	●	●							
	-	-	●	-	-	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-							
UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	I <sub>1</sub>						

### STANDARD-LINE

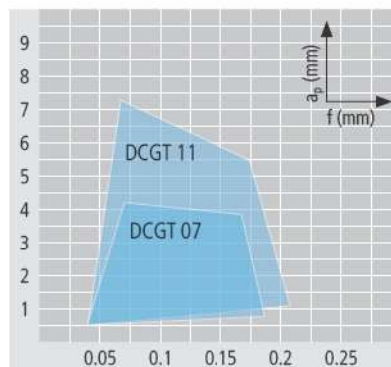
N	DCGT 0702005 EN -PF33 ...																							7.75	0.05	3.6		SD...07...
	DCGT 070201 EN -PF33 ...																							7.75	0.1	3.6		SD...07...
	DCGT 070202 EN -PF33 ...																							7.75	0.2	3.6		SD...07...
	DCGT 070204 EN -PF33 ...																							7.75	0.4	3.6		SD...07...
	DCGT 11T3005 EN -PF33 ...																							11.6	0.05	5.2		SD...11...
	DCGT 11T301 EN -PF33 ...																							11.6	0.1	5.2		SD...11...
	DCGT 11T302 EN -PF33 ...																							11.6	0.2	5.2		SD...11...
	DCGT 11T304 EN -PF33 ...																							11.6	0.4	5.2		SD...11...

### Application range of chip breaker

#### Properties:

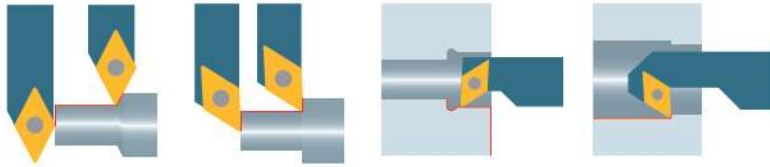
- polished rake
- ground clearance
- little rounded cutting edge "E"
- micrograin carbide

Optimal chip breaking

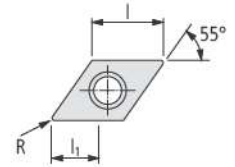


#### Application:

- finishing
- chip breaker for materials with difficult chip control
- alloyed steel and stainless steel



DCMT ... -PF43



$\beta$ : 12°  
 $s$ :  $\pm 0.13$   
 $C$ : <0.02

Order designation	Carbide																20	Cermet	Diamond	Dimensions				Holder
	-	-	●	●	○	●	●	●	○	○	●	●	●	○	○	○	○	○	○	-	-	-	-	□ 227...
	○	●	●	-	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	-	-	-	-	
	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	l <sub>1</sub>		

### VALUE-LINE

N	DCMT 070202 EN -PF43 ...																								7.75	0.2	3.8		SD...07...
	DCMT 070204 EN -PF43 ...																								7.75	0.4	3.8		SD...07...
	DCMT 11T302 EN -PF43 ...																								11.6	0.2	5.5		SD...11...
	DCMT 11T304 EN -PF43 ...																								11.6	0.4	5.5		SD...11...
	DCMT 11T308 EN -PF43 ...																								11.6	0.8	5.5		SD...11...

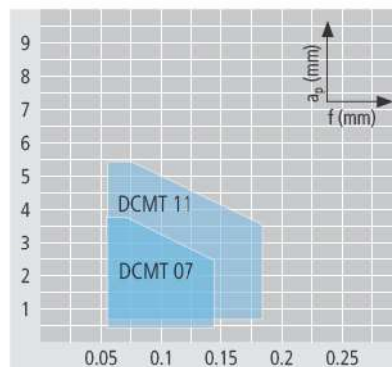
### Application range of chip breaker

multidec®-ISO

#### Properties:

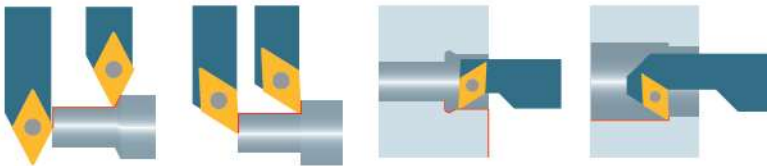
- sintered insert based on ISO standard
- rounded cutting edge "E"
- micrograin carbide

Optimal chip breaking

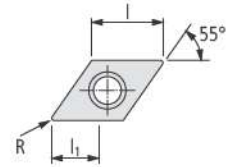


#### Application:

- roughing and finishing
- chip breaker for materials with difficult chip control
- alloyed steel and stainless steel



DCMT ... -PM


 $\beta: 8^\circ$   
 $s: \pm 0.13$   
 $C: < 0.02$ 

Order designation	Carbide																Cermet	Diamond	Dimensions				Holder
	-	-	●	●	○	●	●	●	○	○	○	○	○	○	○	○							
	-	○	●	●	-	○	●	●	○	○	○	○	○	○	○	○							
	○	○	●	●	-	○	●	●	○	○	○	○	○	○	○	○							
	○	○	●	●	-	○	●	●	○	○	○	○	○	○	○	○							
	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-							
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	l <sub>1</sub>	Holder
																							□ 227...
<b>VALUE-LINE</b>																							
<b>N</b>	DCMT 070204 EN -PM ...			■			■				■									7.75	0.4	2.6	SD...07...
	DCMT 070208 EN -PM ...			■			■				■									7.75	0.8	2.6	SD...07...
	DCMT 11T304 EN -PM ...			■			■				■									11.6	0.4	4.1	SD...11...
	DCMT 11T308 EN -PM ...			■			■				■									11.6	0.8	4.1	SD...11...

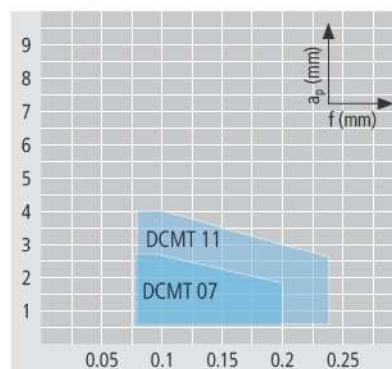
## Application range of chip breaker

multidec®-ISO

### Properties:

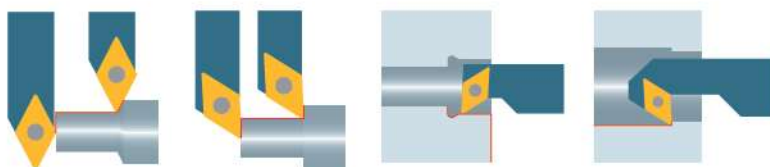
- sintered insert based on ISO standard
- rounded cutting edge "E"
- micrograin carbide

Optimal chip breaking

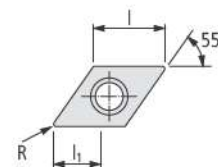


### Application:

- roughing
- chip breaker for general application
- alloyed steel and stainless steel



DCMT ... -PMF



$\beta$ :  $8^\circ$   
 $s$ :  $\pm 0.13$   
 $C$ :  $< 0.02$

Order designation	Carbide															Cermet			Diamond			Dimensions			Holder
	-	-	●	●	○	●	●	●	○	○	○	○	○	○	○	●	●	●	-	-	-	I	R	I <sub>1</sub>	
UHM 10	○	●	●	●	-	○	●	●	○	○	○	○	○	○	○	-	-	-							
UHM 10 HX	○	●	●	●	-	○	●	●	○	○	○	○	○	○	○	-	-	-							
UHM 10 TX+	○	●	●	●	-	○	●	●	○	○	○	○	○	○	○	-	-	-							
UHM 10 MZ	○	●	●	●	-	○	●	●	○	○	○	○	○	○	○	-	-	-							
UHM 20	○	●	●	●	-	○	●	●	○	○	○	○	○	○	○	-	-	-							
UHM 20 HPX	○	●	●	●	-	○	●	●	○	○	○	○	○	○	○	-	-	-							
UHM 20 TX+	○	●	●	●	-	○	●	●	○	○	○	○	○	○	○	-	-	-							
UHM 20 MZ	○	●	●	●	-	○	●	●	○	○	○	○	○	○	○	-	-	-							
UHM 30	○	●	●	●	-	○	●	●	○	○	○	○	○	○	○	-	-	-							
UHM 30 HX	○	●	●	●	-	○	●	●	○	○	○	○	○	○	○	-	-	-							
UHM 30 TX+	○	●	●	●	-	○	●	●	○	○	○	○	○	○	○	-	-	-							
UHM 30 MZ	○	●	●	●	-	○	●	●	○	○	○	○	○	○	○	-	-	-							
UHM 30 SX	○	●	●	●	-	○	●	●	○	○	○	○	○	○	○	-	-	-							
UCM 10	○	●	●	●	-	○	●	●	○	○	○	○	○	○	○	-	-	-							
UCM 10 HX	○	●	●	●	-	○	●	●	○	○	○	○	○	○	○	-	-	-							
UCM 10 MZ	○	●	●	●	-	○	●	●	○	○	○	○	○	○	○	-	-	-							
UCVD 08	○	●	●	●	-	○	●	●	○	○	○	○	○	○	○	-	-	-							
UPCD 15	○	●	●	●	-	○	●	●	○	○	○	○	○	○	○	-	-	-							
UPCD 20	○	●	●	●	-	○	●	●	○	○	○	○	○	○	○	-	-	-							

VALUE-LINE

DCMT 070202 EN -PMF																7.75	0.2	2.6		SD...07...
DCMT 070204 EN -PMF																7.75	0.4	2.6		SD...07...
DCMT 11T304 EN -PMF																11.6	0.4	4.1		SD...11...
DCMT 11T308 EN -PMF																11.6	0.8	4.1		SD...11...

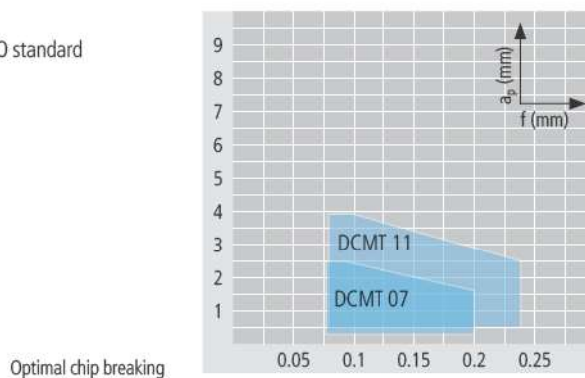
**VALUE-LINE**

### Application range of chip breaker

*multidec®-ISO*

**Properties:**

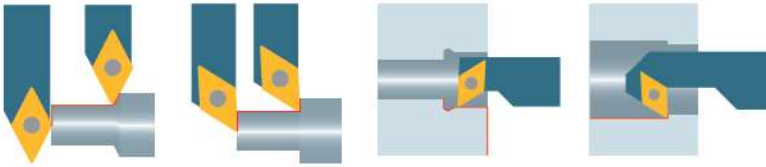
- sintered insert based on ISO standard
- rounded cutting edge "E"
- micrograin carbide



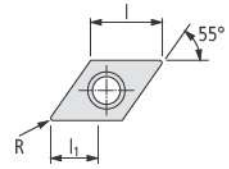
**Application:**

- roughing and finishing
- chip breaker for general application
- alloyed steel and stainless steel





DCMT ... -PM25



$\beta$ :  $18^\circ$   
s:  $\pm 0.13$   
C:  $< 0.02$

Order designation	Carbide												D 20			Cermet			Diamond			Dimensions			Holder
																									227...
UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	I <sub>1</sub>				

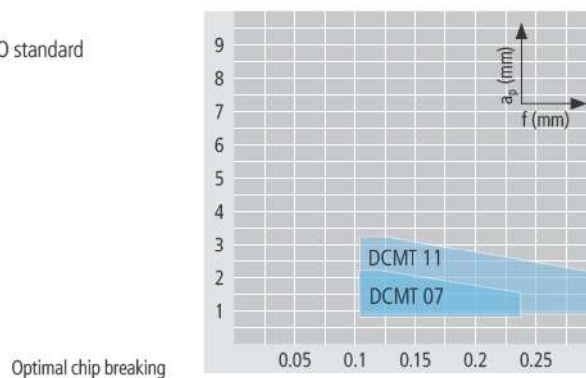
VALUE-LINE

DCMT 070202 EN -PM25 ...					■														7.75	0.2	1.6		SD...07...
DCMT 070204 EN -PM25 ...					■														7.75	0.4	2		SD...07...
DCMT11T302 EN -PM25 ...					■														11.6	0.2	2		SD...11...
DCMT11T304 EN -PM25 ...					■														11.6	0.4	2.2		SD...11...
DCMT11T308 EN -PM25 ...					■														11.6	0.8	3.2		SD...11...

### Application range of chip breaker

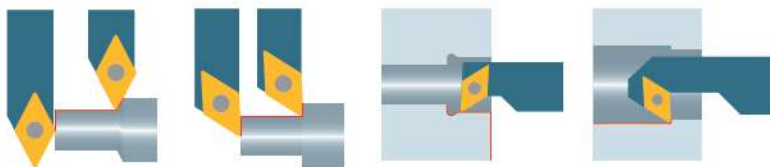
**Properties:**

- sintered insert based on ISO standard
- rounded cutting edge "E"
- micrograin carbide

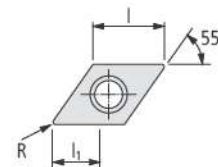


**Application:**

- roughing and finishing
- chip breaker for materials with difficult chip control
- stainless steel



DCMT ... -PM55



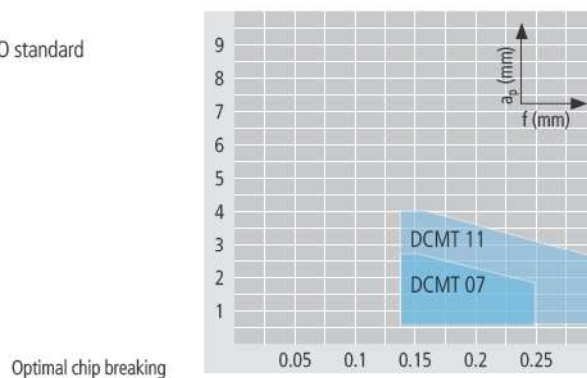
$\beta$ : 16°  
s: ±0.13  
C: <0.02

Order designation	Carbide										□ 20	Cermet	Diamond	Dimensions			Holder □ 227...
	-	-	●	●	○	●	●	●	○	○	○			○	○	○	
	○	○	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○
	○	○	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○
	○	○	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○
	○	○	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○
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**VALUE-LINE**

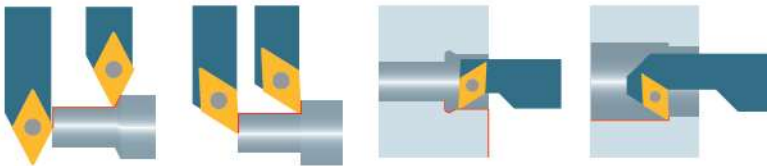
**Properties:**

- sintered insert based on ISO standard
- rounded cutting edge "E"
- micrograin carbide

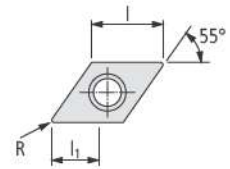


**Application:**

- roughing
- chip breaker for general application
- stainless steel



DCET ... -U


 $\beta: 12^\circ$   
 $s: \pm 0.025$   
 $C: < 0.002$ 

Order designation	Carbide												20	Cermet			Diamond			Dimensions				Holder
	-	-	●	●	○	●	●	●	●	○	●	●	○	●	●	●	●	●	○	-	-	-	-	227...
	-	●	●	●	-	○	●	●	●	○	●	●	-	○	●	●	●	●	○	-	-	-	-	
	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	L	R	l <sub>1</sub>		

### PREMIUM-LINE

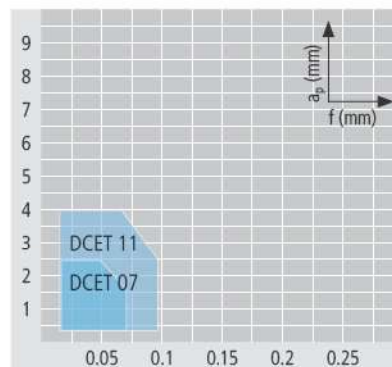
R	DCET 0702003 FR -U ...	■	■	■																7.75	0.03	2.5		SD...07...
	DCET 070201 FR -U ...	■	■	■										■	■					7.75	0.1	2.5		SD...07...
	DCET 070202 FR -U ...	■	■	■										■	■					7.75	0.2	2.5		SD...07...
	DCET 11T301 FR -U ...	■	■	■										■	■					11.6	0.1	4		SD...11...
	DCET 11T302 FR -U ...	■	■	■										■	■					11.6	0.2	4		SD...11...
	DCET 11T304 FR -U ...	■	■	■																11.6	0.4	4		SD...11...

### Application range of chip breaker

#### Properties:

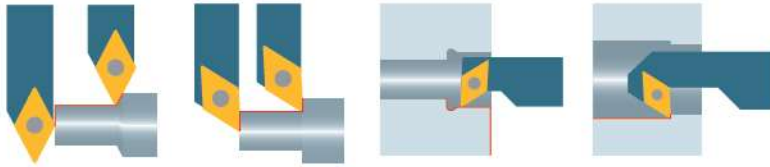
- ground rake and clearance
- sharp cutting edge "F"
- submicrograin carbide, heat and wear resistant and cermet

Optimal chip breaking

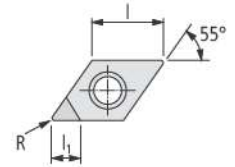


#### Application:

- micro finishing
- chip breaker for materials with difficult chip control
- alloyed steel and stainless steel



DCGT ...



$\beta$ : 5–7°  
 $s$ :  $\pm 0.13$   
 $C$ : <0.002

Order designation	Carbide												20	Cermet			Diamond			Dimensions				Holder
	-	-	•	•	•	•	•	•	•	•	•	•	•	-	-	-	-	-	-	I	R	I <sub>1</sub>		
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					227...
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20					

### STANDARD-LINE

N	Order designation	Carbide												Cermet			Diamond			Dimensions				Holder
		-	-	•	•	•	•	•	•	•	•	•	•	-	-	-	-	-	-	I	R	I <sub>1</sub>		
	DCGT 070201 FN ...																■	■	■	7.75	0.1	3.8		SD...07...
	DCGT 070202 FN ...																■	■	■	7.75	0.2	3.7		SD...07...
	DCGT 070204 FN ...																■	■	■	7.75	0.4	3.4		SD...07...
	DCGT 11T302 FN ...																■	■	■	11.6	0.2	4.7		SD...11...
	DCGT 11T304 FN ...																■	■	■	11.6	0.4	4.3		SD...11...
	DCGT 11T308 FN ...																■	■	■	11.6	0.8	4		SD...11...

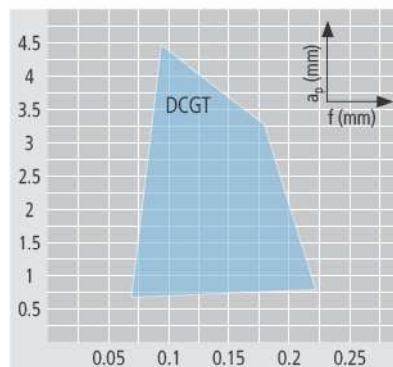
### Application range of chip breaker

multidec®-ISO

#### Properties:

- sharp cutting edge "F"
- less cutting force
- positive cut

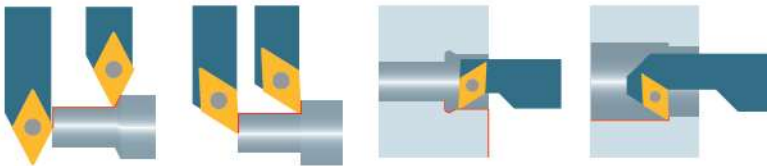
Optimal chip breaking



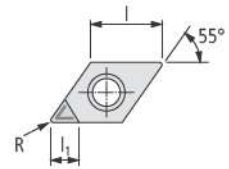
#### Application:

- finishing and micro finishing for unstable or thin-walled parts
- chip breaker for general application will generate continuous chip
- aluminum, brass, copper, bronze, platinum, gold, synthetics and synthetics reinforced/composites
- ideal for smallest tolerance and medium surface quality






DCGT ... -UWS



$\beta$ : 15–20°  
s:  $\pm 0.13$   
C:  $< 0.002$

Order designation	Carbide																 20	Cermet			Diamond			Dimensions			Holder
	-	-	●	●	○	●	●	●	●	○	○	●	●	○	●	●	●										
	-	●	●	●	○	●	●	●	○	○	●	●	○	●	●	○	○										
	○	●	●	-	-	○	●	○	-	○	○	●	○	○	○	-	-										
	●	○	-	-	●	○	-	-	○	○	-	-	○	-	-	●	●										
-	-	●	-	-	-	○	-	-	-	-	-	-	-	-	-	-	-										
UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20									
																	I	R	I <sub>1</sub>								
								</																			

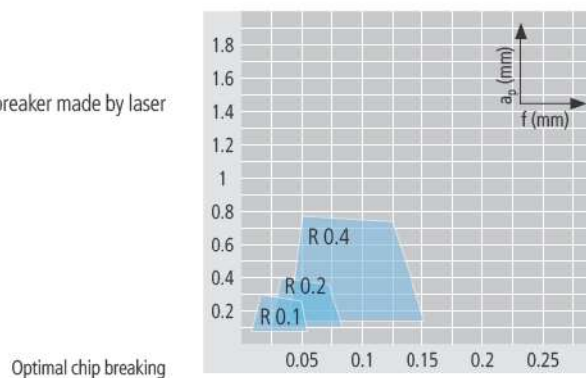
**STANDARD-LINE**

[illegible]

### Application range of chip breaker

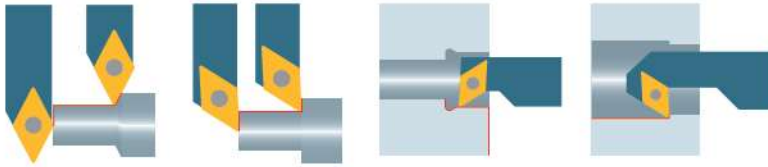
**Properties:**

- sharp cutting edge "F"
- almost any cutting force
- high positive narrow chip breaker made by laser

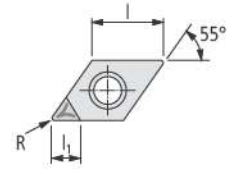


**Application:**

- micro finishing for unstable or thin-walled parts
- chip breaker for materials with difficult chip control
- synthetics reinforced/composites, aluminum, platinum, gold and synthetics
- ideal for smallest tolerance and medium surface quality



DCGT ... -UWN



$\beta$ : 15–20°  
 $s$ :  $\pm 0.13$   
 $C$ :  $< 0.005$

Order designation	Carbide												20	Cermet	Diamond			Dimensions			Holder
	-	-	●	●	○	●	●	●	●	○	○	○	○	○	○	○	○	I	R	I <sub>1</sub>	227...
	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○				
	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○				
	-	-	●	●	○	●	●	●	●	○	○	○	○	○	○	○	○				
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20		

### STANDARD-LINE

N	DCGT 070202 FN -UWN ...																	7.75	0.2	3	SD...07...
	DCGT 070204 FN -UWN ...																	7.75	0.4	3	SD...07...
	DCGT 11T302 FN -UWN ...																	11.6	0.2	3	SD...11...
	DCGT 11T304 FN -UWN ...																	11.6	0.4	3	SD...11...
	DCGT 11T308 FN -UWN ...																	11.6	0.8	3	SD...11...

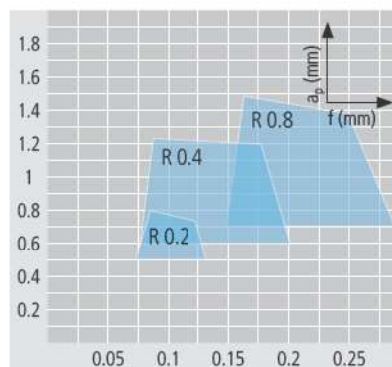
### Application range of chip breaker

multidec®-ISO

#### Properties:

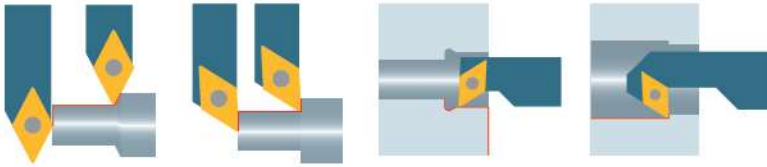
- sharp cutting edge "F"
- higher cutting force
- high positive wide chip breaker made by laser

Optimal chip breaking

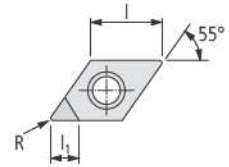


#### Application:

- finishing for stable or solid parts
- chip breaker for materials with difficult chip control
- synthetics reinforced/composites, aluminum, platinum, gold and synthetics
- ideal for smallest tolerance and best surface quality



DCGW ...


 $\beta: 0^\circ$   
 $s: \pm 0.13$   
 $C: < 0.002$ 

Order designation	Carbide												20	Cermet	Diamond	Dimensions			Holder		
	-	-	●	●	○	●	●	●	○	○	○	○	○	○	○	-	-	-	227...		
	-	●	●	-	○	○	○	○	○	○	○	○	○	○	○	-	-	-			
	○	○	-	-	○	○	○	○	○	○	○	○	○	○	○	-	-	-			
	●	○	-	-	○	○	-	○	○	-	-	○	-	-	-	●	●	●			
-	-	●	-	-	-	○	-	-	-	-	-	-	-	-	-	-	-	-			
UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	I <sub>1</sub>

### STANDARD-LINE

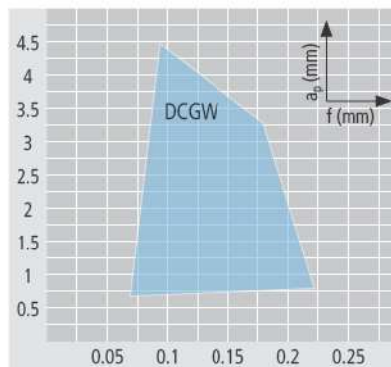
N	DCGW 0702005 FN ...																■	7.75	0.05	3.5	SD...07...
	DCGW 070201 FN ...																■	7.75	0.1	3.8	SD...07...
	DCGW 070202 FN ...																■	7.75	0.2	3.7	SD...07...
	DCGW 070204 FN ...																■	7.75	0.4	3.4	SD...07...
	DCGW 070208 FN ...																■	7.75	0.8	3	SD...07...
	DCGW 11T301 FN ...																■	11.6	0.1	4.8	SD...11...
	DCGW 11T302 FN ...																■	11.6	0.2	4.7	SD...11...
	DCGW 11T304 FN ...																■	11.6	0.4	4.3	SD...11...
	DCGW 11T308 FN ...																■	11.6	0.8	4	SD...11...

### Application range of chip breaker

#### Properties:

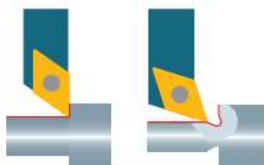
- sharp cutting edge "F"
- medium cutting force
- neutral cut

Optimal chip breaking

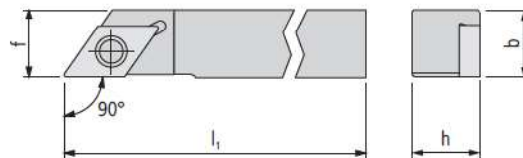


#### Application:

- finishing and micro finishing for stable or solid parts
- chip breaker for general application will generate continuous chip
- aluminum, brass, copper, bronze, platinum, gold, synthetics and synthetics reinforced/composites
- ideal for smallest tolerance and high surface quality

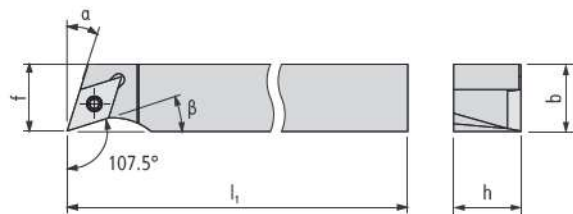
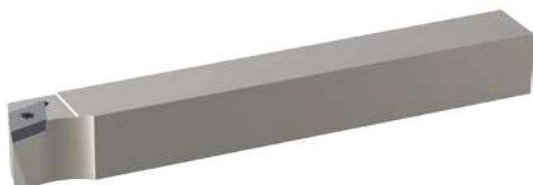
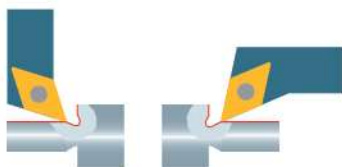


SDAC... U (90°)



Order designation				Dimensions								Inserts
L		R		h	b	l <sub>1</sub>		f				□ 201...
<b>STANDARD-LINE</b>												
SDACL 0808 K07 U	■	SDACR 0808 K07 U	■	8	8	125		8				DC..0702..
SDACL 1010 M07 U	■	SDACR 1010 M07 U	■	10	10	150		10				DC..0702..
SDACL 1212 M07 U	■	SDACR 1212 M07 U	■	12	12	150		12				DC..0702..
SDACL 1212 M11 U	■	SDACR 1212 M11 U	■	12	12	150		12				DC..11T3..
SDACL 1616 K11 U	■	SDACR 1616 K11 U	■	16	16	125		16				DC..11T3..





SDHC... U (107.5°)

Order designation				Dimensions								Inserts
L		R		h	b	l <sub>1</sub>		f		a	β	□ 201...

**STANDARD-LINE**

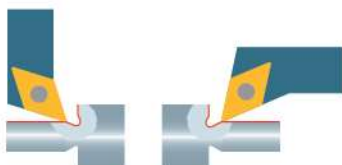
SDHCL 0808 H07 U	■	SDHCR 0808 H07 U	■	8	8	100		11		17.5°	17.5°	DC..0702..
SDHCL 1010 H07 U	■	SDHCR 1010 H07 U	■	10	10	100		11		17.5°	17.5°	DC..0702..
SDHCL 1212 H07 U	■	SDHCR 1212 H07 U	■	12	12	100		12		17.5°	17.5°	DC..0702..
SDHCL 1616 K11 U	■	SDHCR 1616 K11 U	■	16	16	125		16		17.5°	17.5°	DC..11T3..

SDHC... U (107.5°) INCH

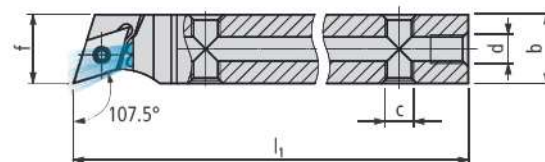
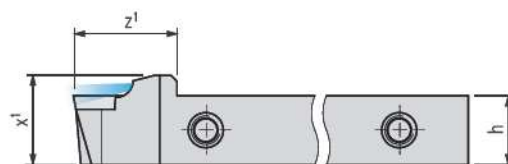
Order designation				Dimensions								Inserts
L		R		h	b	l <sub>1</sub>		f		a	β	□ 201...

**STANDARD-LINE**

SDHCL 3/8" H07 U	■	SDHCR 3/8" H07 U	■	9.525	9.525	100		11		17.5°	17.5°	DC..0702..
SDHCL 1/2" H07 U	■	SDHCR 1/2" H07 U	■	12.7	12.7	100		12.7		17.5°	17.5°	DC..0702..
SDHCL 5/8" K11 U	■	SDHCR 5/8" K11 U	■	15.875	15.875	125		15.875		17.5°	17.5°	DC..11T3..



With internal cooling



SDHC... U IC (107.5°)

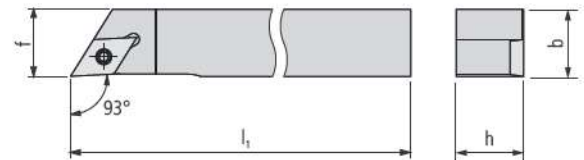
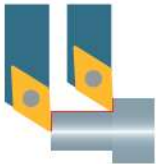
Order designation				Dimensions								Inserts
L		R		h	b	l <sub>1</sub>	z <sup>1</sup>	x <sup>1</sup>	c	d	f	□ 201...
<b>PREMIUM-LINE</b>												
SDHCL 0808 H07 U IC	■	SDHCR 0808 H07 U IC	■	8	8	100	18	11.5	M5	M5	11	DC..0702..
SDHCL 1010 H07 U IC	■	SDHCR 1010 H07 U IC	■	10	10	100	18	13.5	M5	M5	12	DC..0702..
SDHCL 1212 H07 U IC	■	SDHCR 1212 H07 U IC	■	12	12	100	18	15.5	M5	M5	12	DC..0702..
SDHCL 1616 K11 U IC	■	SDHCR 1616 K11 U IC	■	16	16	125	21	19.5	M5	G½"	16	DC..11T3..

SDHC... U IC (107.5°) INCH

Order designation				Dimensions								Inserts
L		R		h	b	l <sub>1</sub>	z <sup>1</sup>	x <sup>1</sup>	c	d	f	□ 201...
<b>PREMIUM-LINE</b>												
SDHCL 3/8" H07 U IC	■	SDHCR 3/8" H07 U IC	■	9.525	9.525	100	18	13	M5	M5	12	DC..0702..
SDHCL 1/2" H07 U IC	■	SDHCR 1/2" H07 U IC	■	12.7	12.7	100	18	16.2	M5	M5	12.7	DC..0702..
SDHCL 5/8" K11 U IC	■	SDHCR 5/8" K11 U IC	■	15.875	15.875	125	21	19.4	M5	G½"	15.875	DC..11T3..

**Scope of delivery:** Holder without coolant connector

Coolant system ..... □ 619...



SDJC... U (93°)

Order designation		Dimensions								Inserts
L	R	h	b	l <sub>1</sub>		f				□ 201...

STANDARD-LINE

SDJCL 0808 F07 U	■	SDJCR 0808 F07 U	■	8	8	80		7.95		DC..0702..
SDJCL 0808 H07 U	■	SDJCR 0808 H07 U	■	8	8	100		7.95		DC..0702..
SDJCL 1010 F07 U	■	SDJCR 1010 F07 U	■	10	10	80		9.95		DC..0702..
SDJCL 1010 H07 U	■	SDJCR 1010 H07 U	■	10	10	100		9.95		DC..0702..
SDJCL 1010 H11 U	■	SDJCR 1010 H11 U	■	10	10	100		11.95		DC..11T3..
SDJCL 1212 H07 U	■	SDJCR 1212 H07 U	■	12	12	100		11.95		DC..0702..
SDJCL 1212 H11 U	■	SDJCR 1212 H11 U	■	12	12	100		11.95		DC..11T3..
SDJCL 1616 K07 U	■	SDJCR 1616 K07 U	■	16	16	125		15.95		DC..0702..
SDJCL 1616 K11 U	■	SDJCR 1616 K11 U	■	16	16	125		15.95		DC..11T3..
SDJCL 2020 K11 U	■	SDJCR 2020 K11 U	■	20	20	125		19.95		DC..11T3..

SDJC... U (93°) INCH

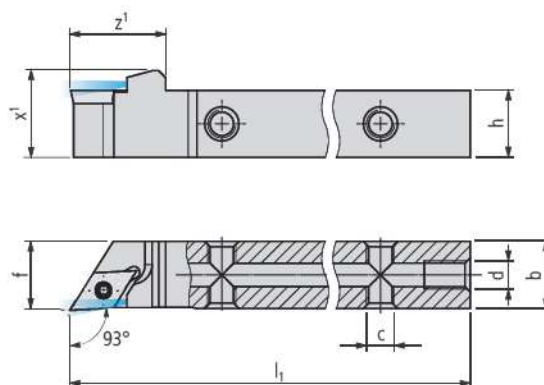
Order designation		Dimensions								Inserts
L	R	h	b	l <sub>1</sub>		f				□ 201...

STANDARD-LINE

SDJCL 3/8" F07 U	■	SDJCR 3/8" F07 U	■	9.525	9.525	80		9.475		DC..0702..
SDJCL 3/8" H07 U	■	SDJCR 3/8" H07 U	■	9.525	9.525	100		9.475		DC..0702..
SDJCL 3/8" F11 U	■	SDJCR 3/8" F11 U	■	9.525	9.525	80		11.95		DC..11T3..
SDJCL 3/8" H11 U	■	SDJCR 3/8" H11 U	■	9.525	9.525	100		11.95		DC..11T3..
SDJCL 1/2" H07 U	■	SDJCR 1/2" H07 U	■	12.7	12.7	100		12.65		DC..0702..
SDJCL 1/2" H11 U	■	SDJCR 1/2" H11 U	■	12.7	12.7	100		12.65		DC..11T3..
SDJCL 5/8" K11 U	■	SDJCR 5/8" K11 U	■	15.875	15.875	125		15.825		DC..11T3..
SDJCL 3/4" K11 U	■	SDJCR 3/4" K11 U	■	19.05	19.05	125		19		DC..11T3..



With internal cooling




SDJC... U IC (93°)

Order designation		Dimensions							Inserts	
L	R	h	b	l <sub>1</sub>	z <sup>1</sup>	x <sup>1</sup>	c	d	f	□ 201...

PREMIUM-LINE

SDJCL 0810 H07 U IC	■	SDJCR 0810 H07 U IC	■	8	10	100	17	11.5	M5	M5	8	DC.. 0702..
SDJCL 1010 H07 U IC	■	SDJCR 1010 H07 U IC	■	10	10	100	17	13.5	M5	M5	10	DC.. 0702..
SDJCL 1010 H11 U IC	■	SDJCR 1010 H11 U IC	■	10	10	100	22	13.5	M5	M5	10	DC.. 11T3..
SDJCL 1212 H07 U IC	■	SDJCR 1212 H07 U IC	■	12	12	100	17	15.5	M5	M5	12	DC.. 0702..
SDJCL 1212 H11 U IC	■	SDJCR 1212 H11 U IC	■	12	12	100	22	15.5	M5	M5	12	DC.. 11T3..
SDJCL 1616 K07 U IC	■	SDJCR 1616 K07 U IC	■	16	16	125	17	15.5	M5	G½"	16	DC.. 0702..
SDJCL 1616 K11 U IC	■	SDJCR 1616 K11 U IC	■	16	16	125	22	19.5	M5	G½"	16	DC.. 11T3..
SDJCL 2020 K11 U IC	■	SDJCR 2020 K11 U IC	■	20	20	125	22	23.5	M5	G½"	20	DC.. 11T3..

SDJC... U IC (93°) INCH

Order designation		Dimensions							Inserts	
L	R	h	b	l <sub>1</sub>	z <sup>1</sup>	x <sup>1</sup>	c	d	f	 201...

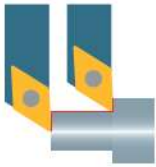
PREMIUM-LINE

SDJCL 3/8" H07 U IC	■	SDJCR 3/8" H07 U IC	■	9.525	9.525	100	17	13	M5	M5	9.525	DC.. 0702..
SDJCL 3/8" H11 U IC	■	SDJCR 3/8" H11 U IC	■	9.525	9.525	100	22	13	M5	M5	9.525	DC.. 11T3..
SDJCL 1/2" H07 U IC	■	SDJCR 1/2" H07 U IC	■	12.7	12.7	100	17	16.2	M5	M5	12.7	DC.. 0702..
SDJCL 1/2" H11 U IC	■	SDJCR 1/2" H11 U IC	■	12.7	12.7	100	22	16.2	M5	M5	12.7	DC.. 11T3..
SDJCL 5/8" K07 U IC	■	SDJCR 5/8" K07 U IC	■	15.875	15.875	125	17	19.5	M5	G½"	15.875	DC.. 0702..
SDJCL 5/8" K11 U IC	■	SDJCR 5/8" K11 U IC	■	15.875	15.875	125	22	19.5	M5	G½"	15.875	DC.. 11T3..
SDJCL 3/4" K11 U IC	■	SDJCR 3/4" K11 U IC	■	19.05	19.05	125	22	22.6	M5	G½"	19.05	DC.. 11T3..

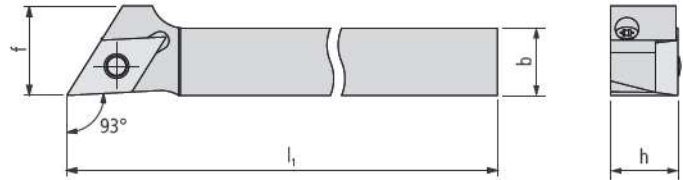
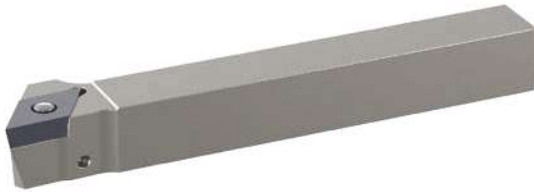
**Scope of delivery:** Holder without coolant connector  
Coolant system ..... □ 619...

Legend ..... □ 8...





"FC" version (fast change)



SDJC... U FC\* (93°)

Order designation		Dimensions								Inserts
L	R	h	b	l <sub>1</sub>		f				□ 201...
<b>STANDARD-LINE</b>										
SDJCL 1012 H11 U FC	■	SDJCR 1012 H11 U FC	■	10	12	100		16		DC..11T3..
SDJCL 1212 H11 U FC	■	SDJCR 1212 H11 U FC	■	12	12	100		16		DC..11T3..
SDJCL 1616 K11 U FC	■	SDJCR 1616 K11 U FC	■	16	16	125		16		DC..11T3..

SDJC... U FC\* (93°) INCH

Order designation		Dimensions								Inserts
L	R	h	b	l <sub>1</sub>		f				□ 201...
<b>STANDARD-LINE</b>										
SDJCL 1/2" H11 U FC	■	SDJCR 1/2" H11 U FC	■	12.7	12.7	100		16		DC..11T3..
SDJCL 5/8" K11 U FC	■	SDJCR 5/8" K11 U FC	■	15.875	15.875	125		15.875		DC..11T3..

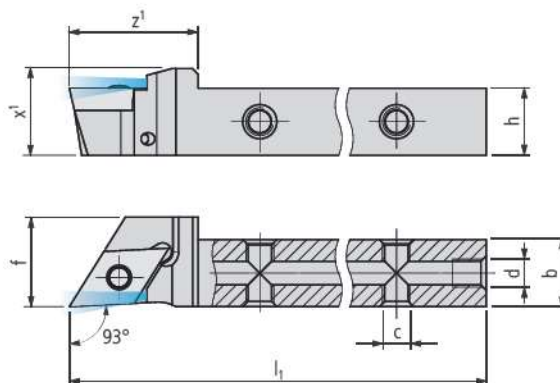
Spare parts (clamping bolts /screws) ..... □ 247

**\* Note**

With this holder, the indexable insert is secured with a screw using a knee lever that can be operated from behind. This means the holder does not have to be unclamped to change the cutting edge.  
Tighten the clamping screw to 1.2 Nm using a torque screwdriver.



"FC" version (fast change) with internal cooling



### SDJC... U FC\* IC (93°)

Order designation				Dimensions									Inserts
L		R		h	b	l <sub>1</sub>	z <sub>1</sub>	x <sub>1</sub>	c	d	f	□ 201...	
<b>PREMIUM-LINE</b>													
SDJCL 1012 H11 U FC IC	■	SDJCR 1012 H11 U FC IC	■	10	12	100	23	13.5	M5	M5	16	DC..11T3..	
SDJCL 1212 H11 U FC IC	■	SDJCR 1212 H11 U FC IC	■	12	12	100	23	15.5	M5	M5	16	DC..11T3..	
SDJCL 1616 K11 U FC IC	■	SDJCR 1616 K11 U FC IC	■	16	16	125	23	19.5	M5	G½"	16	DC..11T3..	

### SDJC... U FC\* IC (93°) INCH

Order designation				Dimensions								Inserts		
L		R		h	b	l <sub>1</sub>	z <sub>1</sub>	x <sub>1</sub>	c	d	f	□ 201...		
<div>PREMIUM-LINE</div>														
SDJCL 1/2" H11 U FC IC		■	SDJCR 1/2" H11 U FC IC		■	12.7	12.7	100	23	16.2	M5	M5	16	DC..11T3..
SDJCL 5/8" K11 U FC IC		■	SDJCR 5/8" K11 U FC IC		■	15.875	15.875	125	23	19.4	M5	G½"	15.875	DC..11T3..

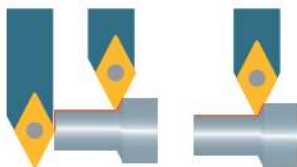
Spare parts (clamping bolts/screws) ..... □ 247

#### \* Note

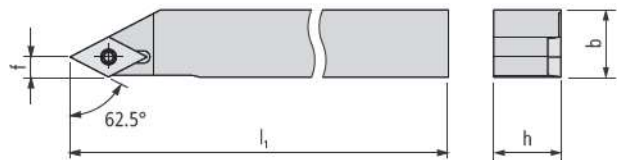
With this holder, the indexable insert is secured with a screw using a knee lever that can be operated from behind. This means the holder does not have to be unclamped to change the cutting edge.  
Tighten the clamping screw to 1.2 Nm using a torque screwdriver.

**Scope of delivery:** Holder without coolant connector

Coolant system ..... □ 619...



SDNC... U (62.5°)



Order designation		Dimensions								Inserts
L	R	h	b	l <sub>1</sub>		f				□ 201...

**STANDARD-LINE**

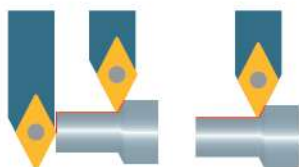
SDNCL 0808 F07 U	■	SDNCR 0808 F07 U	■	8	8	80		3.63		DC..0702..
SDNCL 0808 H07 U	■	SDNCR 0808 H07 U	■	8	8	100		3.63		DC..0702..
SDNCL 1010 F07 U	■	SDNCR 1010 F07 U	■	10	10	80		3.63		DC..0702..
SDNCL 1010 H07 U	■	SDNCR 1010 H07 U	■	10	10	100		3.63		DC..0702..
SDNCL 1212 H07 U	■	SDNCR 1212 H07 U	■	12	12	100		3.63		DC..0702..
SDNCL 1212 H11 U	■	SDNCR 1212 H11 U	■	12	12	100		5.42		DC..11T3..
SDNCL 1616 K11 U	■	SDNCR 1616 K11 U	■	16	16	125		5.42		DC..11T3..
SDNCL 2020 K11 U	■	SDNCR 2020 K11 U	■	20	20	125		5.42		DC..11T3..

SDNC... U (62.5°) INCH

Order designation		Dimensions								Inserts
L	R	h	b	l <sub>1</sub>		f				□ 201...

**STANDARD-LINE**

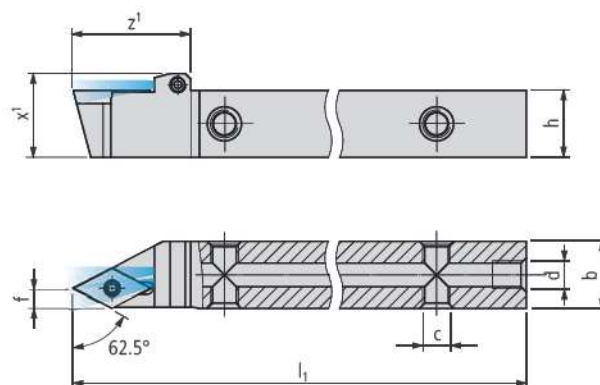
SDNCL 3/8" H07 U	■	SDNCR 3/8" H07 U	■	9.525	9.525	100		3.63		DC..0702..
SDNCL 1/2" H07 U	■	SDNCR 1/2" H07 U	■	12.7	12.7	100		3.63		DC..0702..
SDNCL 1/2" H11 U	■	SDNCR 1/2" H11 U	■	12.7	12.7	100		5.42		DC..11T3..
SDNCL 5/8" K11 U	■	SDNCR 5/8" K11 U	■	15.875	15.875	125		5.42		DC..11T3..



With internal cooling



SDNC... U IC (62.5°)



Order designation				Dimensions								Inserts
L		R		h	b	l <sub>1</sub>	z <sub>1</sub>	x <sub>1</sub>	c	d	f	□ 201...
<b>PREMIUM-LINE</b>												
SDNCL 1010 H07 U IC	■	SDNCR 1010 H07 U IC	■	10	10	100	21	13	M5	M5	3.63	DC..0702..
SDNCL 1212 H07 U IC	■	SDNCR 1212 H07 U IC	■	12	12	100	21	15	M5	M5	3.63	DC..0702..
SDNCL 1212 H11 U IC	■	SDNCR 1212 H11 U IC	■	12	12	100	25	15.5	M5	M5	5.42	DC..11T3..
SDNCL 1616 K11 U IC	■	SDNCR 1616 K11 U IC	■	16	16	125	25	19.5	M5	G <sup>1</sup> / <sub>8</sub> "	5.42	DC..11T3..

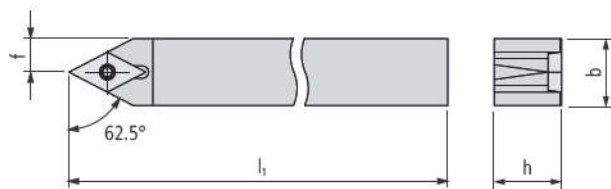
SDNC... U IC (62.5°) INCH

Order designation				Dimensions								Inserts
L		R		h	b	l <sub>1</sub>	z <sub>1</sub>	x <sub>1</sub>	c	d	f	□ 201...
<b>PREMIUM-LINE</b>												
SDNCL 3/8" H07 U IC	■	SDNCR 3/8" H07 U IC	■	9.525	9.525	100	21	12.5	M5	M5	3.63	DC..0702..
SDNCL 1/2" H07 U IC	■	SDNCR 1/2" H07 U IC	■	12.7	12.7	100	21	15.7	M5	M5	3.63	DC..0702..
SDNCL 1/2" H11 U IC	■	SDNCR 1/2" H11 U IC	■	12.7	12.7	100	25	16.2	M5	M5	5.42	DC..11T3..
SDNCL 5/8" K11 U IC	■	SDNCR 5/8" K11 U IC	■	15.875	15.875	125	25	19.4	M5	G <sup>1</sup> / <sub>8</sub> "	5.42	DC..11T3..

**Scope of delivery:** Holder without coolant connector

Coolant system ..... □ 619...





SDNCN ... U (62.5°)

Order designation				Dimensions						Inserts
N				h	b	l <sub>1</sub>		f		□ 201...

## STANDARD-LINE

SDNCN 0808 F07 U	■			8	8	80		4		DC..0702..
SDNCN 0808 K07 U	■			8	8	125		4		DC..0702..
SDNCN 1010 E07 U	■			10	10	70		5		DC..0702..
SDNCN 1010 M07 U	■			10	10	150		5		DC..0702..
SDNCN 1212 F07 U	■			12	12	80		6		DC..0702..
SDNCN 1212 M07 U	■			12	12	150		6		DC..0702..
SDNCN 1212 M11 U	■			12	12	150		6		DC..11T3..
SDNCN 1616 H11 U	■			16	16	100		8		DC..11T3..
SDNCN 2020 K11 U	■			20	20	125		10		DC..11T3..

SDNCN ... U (62.5°) INCH

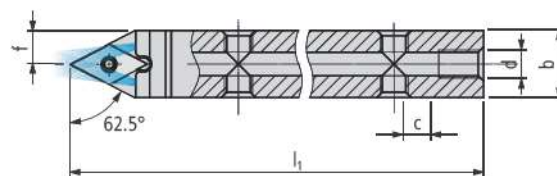
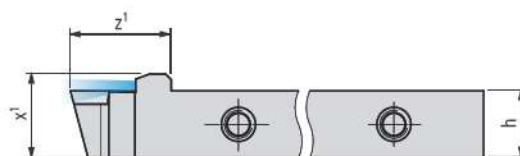
Order designation				Dimensions						Inserts
N				h	b	l <sub>1</sub>		f		□ 201...

## STANDARD-LINE

SDNCN 3/8" H07 U	■			9.525	9.525	100		4.76		DC..0702..
SDNCN 1/2" H07 U	■			12.7	12.7	100		6.35		DC..0702..
SDNCN 1/2" H11 U	■			12.7	12.7	100		6.35		DC..11T3..
SDNCN 5/8" K11 U	■			15.875	15.875	125		7.94		DC..11T3..



With internal cooling



### SDNCN ... U IC (62.5°)

Order designation				Dimensions							Inserts	
N				h	b	l <sub>1</sub>	z <sub>1</sub>	x <sub>1</sub>	c	d	f	□ 201...
<b>PREMIUM-LINE</b>												
SDNCN 0808 H07 U IC	■			8	8	100	18	11	M5	M5	4	DC..0702..
SDNCN 1010 H07 U IC	■			10	10	100	18	13	M5	M5	5	DC..0702..
SDNCN 1212 H07 U IC	■			12	12	100	18	15	M5	M5	6	DC..0702..
SDNCN 1616 K11 U IC	■			16	16	125	22	19	M5	G1/8"	8	DC..11T3..

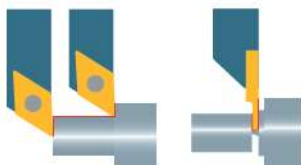
### SDNCN ... U IC (62.5°) INCH

Order designation				Dimensions							Inserts	
N				h	b	l <sub>1</sub>	z <sub>1</sub>	x <sub>1</sub>	c	d	f	□ 201...
<b>PREMIUM-LINE</b>												
SDNCN 3/8"H07 U IC	■			9.525	9.525	100	18	13	M5	M5	4.76	DC..0702..
SDNCN 1/2"H07 U IC	■			12.7	12.7	100	18	15.7	M5	M5	6.35	DC..0702..
SDNCN 1/2"H11 U IC	■			12.7	12.7	100	24	15.7	M5	M5	6.35	DC..11T3..
SDNCN 5/8"K11 U IC	■			15.875	15.875	125	24	18.9	M5	G1/8"	7.94	DC..11T3..

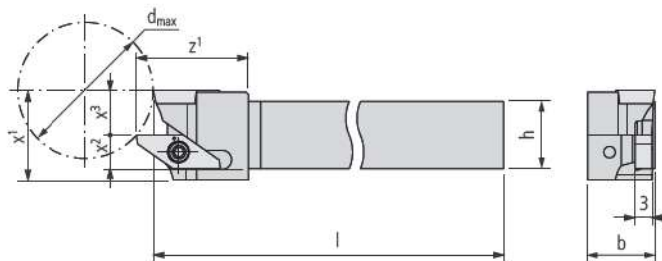
**Scope of delivery:** Holder without coolant connector

Coolant system ..... □ 619...

Legend ..... □ 8...



"TWIN" version



SDJC. (93°)/1600... TWIN

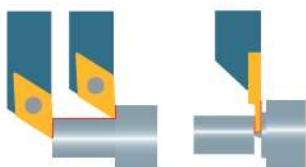
Order designation		Dimensions								Inserts	
		h	b	l	z <sup>1</sup>	x <sup>1</sup>	x <sup>2</sup>	x <sup>3</sup>	d <sub>max</sub>	□ 201...	□ 49...
		8	10	100	20	16	4	8	23	DC..0702..	16...
		10	10	100	20	16	5	8	23	DC..0702..	16...
		12	12	100	20	16	6	8	23	DC..0702..	16...
		16	16	125	20	20	8	10	35	DC..11T3..	16...
		20	20	125	20	24	8	14	68	DC..11T3..	16...

STANDARD-LINE

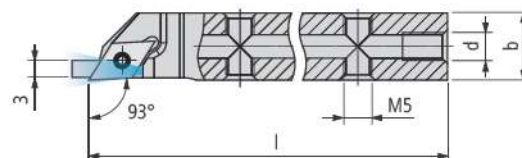
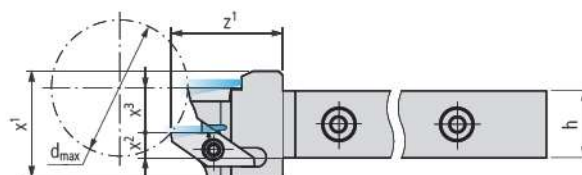
SDJC. (93°)/1600... TWIN INCH

Order designation		Dimensions								Inserts	
		h	b	l	z <sup>1</sup>	x <sup>1</sup>	x <sup>2</sup>	x <sup>3</sup>	d <sub>max</sub>	□ 201...	□ 49...
		9.525	9.525	100	20	16	4.76	8	23	DC..0702..	16...
		12.7	12.7	100	20	16	6.35	8	23	DC..0702..	16...
		15.875	15.875	125	20	20	7.94	10	35	DC..11T3..	16...
		19.05	19.05	125	20	24	7.53	14	68	DC..11T3..	16...




STANDARD-LINE






**"TWIN" version with internal cooling**



## SDJC. (93°)/1600... TWIN IC

Order designation		Dimensions										Inserts	
		h	b	l	z <sup>1</sup>	x <sup>1</sup>	x <sup>2</sup>	x <sup>3</sup>	d	d <sub>max</sub>	 201...	 49...	
													
PREMIUM-LINE													
	SDJCR/1600R-0810 H07 Twin IC	■	8	10	100	20	19	2.5	8	M5	23	DC..0702..	16...
	SDJCR/1600R-1010 H07 Twin IC	■	10	10	100	20	19	3.5	8	M5	23	DC..0702..	16...
	SDJCR/1600R-1212 H07 Twin IC	■	12	12	100	20	19	4.5	8	M5	23	DC..0702..	16...
	SDJCR/1600R-1616 K11 Twin IC	■	16	16	125	26	23	6.5	10	G½"	35	DC..11T3..	16...
	SDJCR/1600R-2020 K11 Twin IC	■	20	20	125	26	27	6.5	14	G½"	68	DC..11T3..	16...

## SDJC. (93°)/1600... TWIN IC INCH

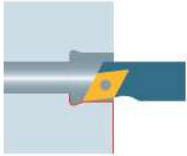
Order designation		Dimensions										Inserts		
		h	b	l	z <sup>1</sup>	x <sup>1</sup>	x <sup>2</sup>	x <sup>3</sup>	d	d <sub>max</sub>	 201...	 49...		
														
<b>PREMIUM-LINE</b>		SDJCR/1600R-3/8" H07 Twin IC	■	9.525	9.525	100	20	19	3.26	8	M5	23	DC..0702..	16...
		SDJCR/1600R-1/2" H07 Twin IC	■	12.7	12.7	100	20	19	4.85	8	M5	23	DC..0702..	16...
		SDJCR/1600R-5/8" K11 Twin IC	■	15.875	15.875	125	26	23	6.44	10	G½"	35	DC..11T3..	16...
		SDJCR/1600R-3/4" K11 Twin IC	■	19.05	19.05	125	26	27	5.53	14	G½"	68	DC..11T3..	16...

**Scope of delivery:** Holder without coolant connector

Coolant system  619...

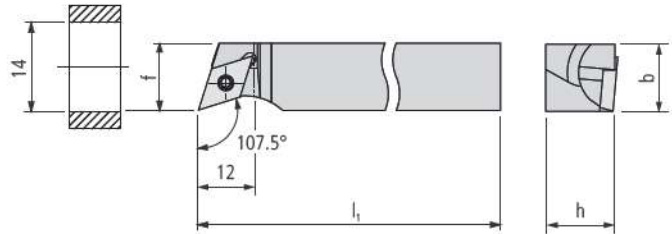
Legend  8...





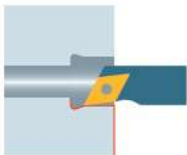
240

UTILIS  
**multidec**  
swiss type tools



SDHC... (107.5°)

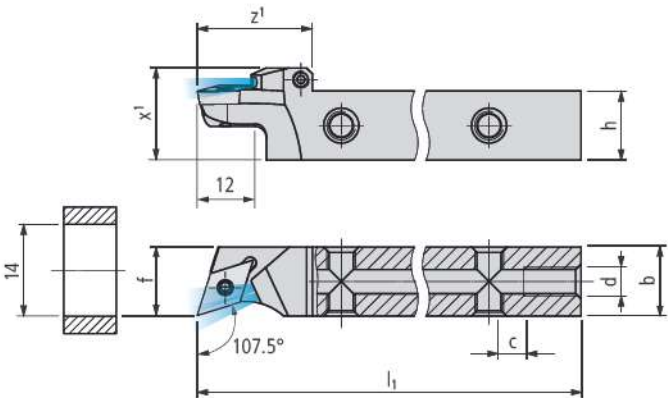
Order designation				Dimensions								Inserts
L		R		h	b	l <sub>1</sub>	f					□ 201...
<b>STANDARD-LINE</b>												
SDHCL 1010 XH07	■	SDHCR 1010 XH07	■	10	10	100	11					DC..0702..
SDHCL 1212 XH07	■	SDHCR 1212 XH07	■	12	12	100	12					DC..0702..
SDHCL 1616 XK07	■	SDHCR 1616 XK07	■	16	16	125	13.5					DC..0702..



With internal cooling



SDHC... IC (107.5°)



Order designation				Dimensions								Inserts
L		R		h	b	l <sub>1</sub>	z <sub>1</sub>	x <sub>1</sub>	c	d	f	□201...
PREMIUM-LINE												
SDHCL 1010 XH07 IC	□	SDHCR 1010 XH07 IC	□	10	10	100	20	14	M5	M5	11	DC..0702..
SDHCL 1212 XH07 IC	■	SDHCR 1212 XH07 IC	■	12	12	100	20	16	M5	M5	12	DC..0702..
SDHCL 1616 XK07 IC	■	SDHCR 1616 XK07 IC	■	16	16	125	20	20	M5	G½"	13.5	DC..0702..

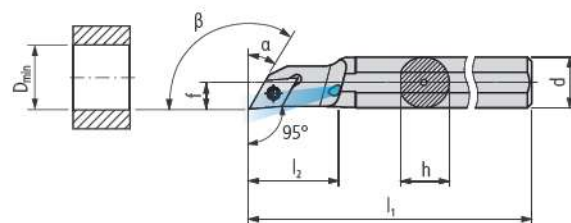


242

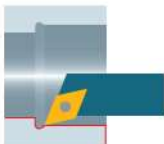
UTILIS  
**multidec**  
swiss type tools



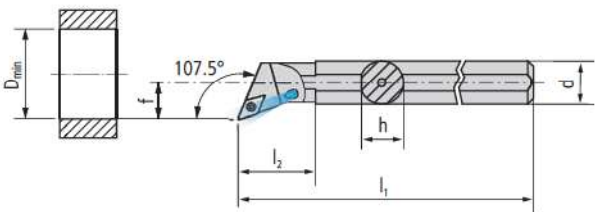
A... SDOC... (95°)



Order designation		Dimensions								Inserts
L	R	d	h	l <sub>1</sub>	l <sub>2</sub>	f	D <sub>min</sub>	a	β	□ 201...
<b>STANDARD-LINE</b>										
A12K SDOCL 07	■ A12K SDOCR 07	12	11.5	125	21	7	14	30°	120°	DC..0702..

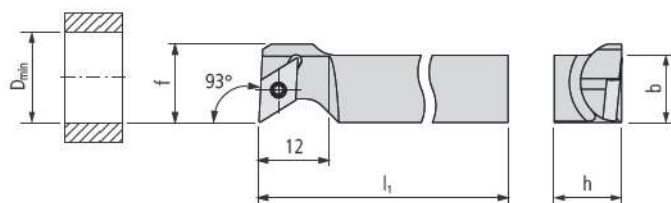
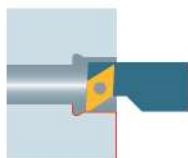


A... SDQC... (107.5°)



Order designation				Dimensions							Inserts
L		R		d	h	l <sub>1</sub>	l <sub>2</sub>	f	D <sub>min</sub>		□ 201...
STANDARD-LINE											
A12K SDQCL 07	■	A12K SDQCR 07	■	12	11.5	125	22	9	16		DC..0702..
A16M SDQCL 07	■	A16M SDQCR 07	■	16	15	150	29	11	20		DC..0702..
A20Q SDQCL 07	■	A20Q SDQCR 07	■	20	18.5	180	32	13	25		DC..0702..



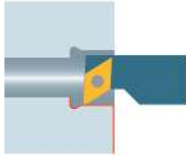


SDUC... (93°)

Order designation				Dimensions							Inserts
L		R		h	b	l <sub>1</sub>		f	D <sub>min</sub>		□ 201...

**STANDARD-LINE**

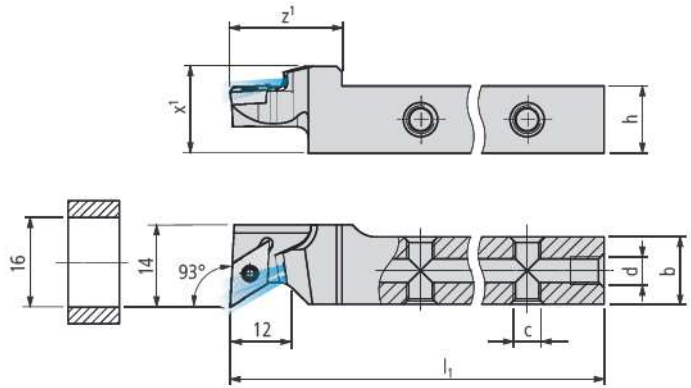
SDUCL 1010 XH07	□	SDUCR 1010 XH07	□	10	10	100		14	16		DC..0702..
SDUCL 1212 XH07	■	SDUCR 1212 XH07	■	12	12	100		14	16		DC..0702..
SDUCL 1616 XK07	■	SDUCR 1616 XK07	■	16	16	125		14	16		DC..0702..



With internal cooling



SDUC... IC (93°)

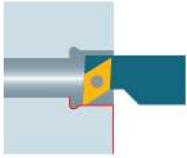


Order designation		Dimensions								Inserts
L	R	h	b	l <sub>1</sub>	z <sup>1</sup>	x <sup>1</sup>	c	d		□ 201...

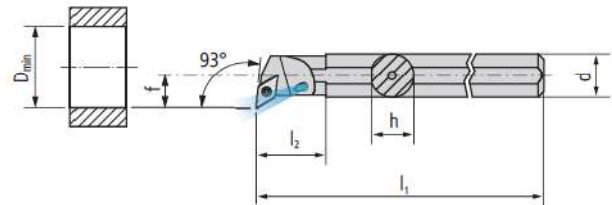
**PREMIUM-LINE**

SDUCL 1010 XH07 IC	□	SDUCR 1010 XH07 IC	□	10	10	100	20	13.5	M5	M5	DC.. 0702..
SDUCL 1212 XH07 IC	■	SDUCR 1212 XH07 IC	■	12	12	100	20	15.5	M5	M5	DC.. 0702..
SDUCL 1616 XH07 IC	□	SDUCR 1616 XH07 IC	□	16	16	100	20	19.5	M5	G <sup>1</sup> / <sub>8</sub> "	DC.. 0702..
SDUCL 1616 XK07 IC	■	SDUCR 1616 XK07 IC	■	16	16	125	20	19.5	M5	G <sup>1</sup> / <sub>8</sub> "	DC.. 0702..

**Scope of delivery:** Holder without coolant connector  
Coolant system ..... □ 619...



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A... SDUC... (93°)

Order designation		Dimensions							Inserts	
L	R	d	h	l <sub>1</sub>	l <sub>2</sub>	f	D <sub>min</sub>		□ 201...	



**STANDARD-LINE**

A10H SDUCL 07	■	A10H SDUCR 07	■	10	9	100	—	7	14		DC..0702..
A12K SDUCL 07	■	A12K SDUCR 07	■	12	11.5	125	22	9	16		DC..0702..
A16M SDUCL 07	■	A16M SDUCR 07	■	16	15	150	29	11	20		DC..0702..
A20Q SDUCL 07	■	A20Q SDUCR 07	■	20	18.5	180	32	13	25		DC..0702..
A20Q SDUCL 11	■	A20Q SDUCR 11	■	20	18.5	180	32	13	25		DC..11T3..


## For holders (SS...) OD turning

Illustration	Description	Dimensions	Order designation		Holder
	TORX screw	M2.5 × 6 T08	MSP 25060 T08	■	SD... 07
		M3.5 × 8.6 T15	MSP 35086 T15	■	SD... 11... Twin
		M3.5 × 11 T15	MSP 35110 T15	■	SD... 11

## For holders (SD.C... FC) OD turning

Illustration	Description	Dimensions	Order designation		Holder
	Clamping bolts	4 × 11	MSP SB 40110 FC	■	SD.C... 11 FC
	Clamping screw	M4 × 11	MSP KS 40110 FC T08	■	SD.C... 11 FC

## For holders (... SD...) ID turning

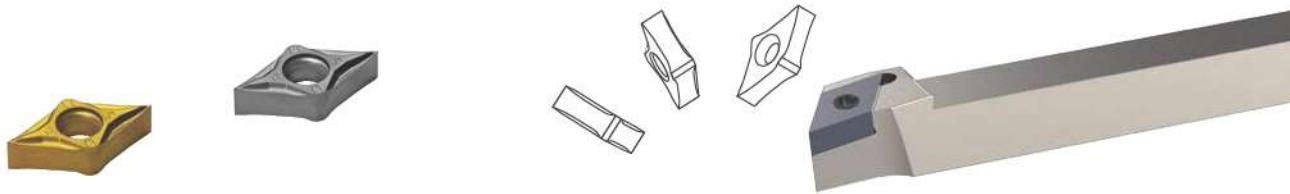
Illustration	Description	Dimensions	Order designation		Holder
	TORX screw	M2.5 × 5.5 T07	MSP 25055 T07	■	A10H SD... 07
		M2.5 × 6 T08	MSP 25060 T08	■	A12K SD... 07 A16M SD... 07 A20Q SD... 07
		M3.5 × 8.6 T15	MSP 35086 T15	■	A20Q SD... 11

TORX screwdriver ..... 651...

Legend ..... 8...



This further development of multidec®-ISO provides a tool system with 4 cutting edges and the finest performance-cost ratio for Swiss type machining and precision turning. The insert consist of 4 sharp cutting edges with radius 0.08 and 0.15 mm and is easily indexed or changed. Innovative chip breakers have been designed for cutting of very difficult materials on finishing and micro-finishing applications using coated and uncoated submicrograin carbide. Even for the hardened and nickel-plated holders a wide range of possibilities with shank sizes between 10 and 25 mm are available. For Swiss type automatic lathes special holders have been designed and complete the range of choices.



**Specific features of insert DNGU:**

- Negative holder fixed with screw
- 4 positive cutting edges for the price of 2
- Sharp edges with 7° clearance angle
- Small corner radius (0.08 and 0.15 mm)
- Fine grain grade carbide
- Insert DNGU also usable on holders with toggle setting device



"IC" tool holder with integrated cooling

Cost-efficient processing of modern materials increasingly requires accurate control of the coolant at the cutting edge. Conveying the coolant as close as possible to the cutting edge is often a difficult task in the machine rooms of Swiss type turning lathes.

The multidec®-IC program offers a wide range of holders with integrated cooling. Because of the high precision and pressure, it is possible to discharge the chip quickly and safely from the cutting edge and the workpiece, which protects the cutting edge of the insert. This means significantly longer tool life as well as very reliable serial production.

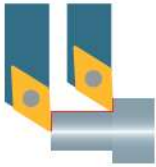
**Advantages:**

- All holders feature five possible connectors for the coolant supply
- Constant coolant discharge means low build-up at front near the holder
- With or without high pressure, the coolant medium always hits the cutting edge precisely

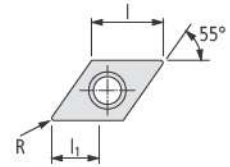
## Overview – multidec®-ISO, type DN... (55°)

Technical information		11
Inserts (carbide / cermet)		
DNGU ...		250
HOLDERS (OD turning)		
SDJN... (93°), SDJN... IC (93°)		252
SDNNN ... (62.5°), SDNNN ... IC (62.5°)		254
Replacement and spare parts		256
Coolant system and accessories		619

250



DNGU ... -A4


 $\beta: 8^\circ$   
 $s: \pm 0.13$   
 $C: < 0.002$ 

Order designation	Carbide												20	Cermet	Diamond	Dimensions				Holder
	-	-	●	●	○	●	●	●	●	○	○	●	●	●	●	-	-	-	-	□ 252...
	○	●	●	-	○	●	●	●	○	○	○	●	●	●	○	-	-	-	-	
	○	○	●	-	-	○	○	○	-	-	-	○	○	-	-	-	-	-	-	
	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	

### STANDARD-LINE

N	DNGU 1104008 FN-A4 ...				■	■	■													11.6	0.08	2.9		SDJN...11
	DNGU 1104015 FN-A4 ...				■	■	■													11.6	0.15	2.9		SDJN...11
	DNGU 1104035 FN-A4 ...				■	■	■													11.6	0.35	2.9		SDJN...11

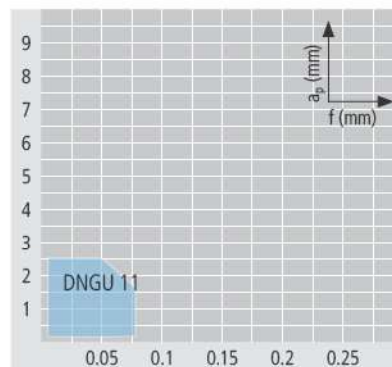
### Application range of chip breaker

multidec®-ISO

#### Properties:

- polished rake and ground clearance
- 4 sharp cutting edge "F"
- submicrograin carbide, high toughness
- best performance-cost ratio

Optimal chip breaking

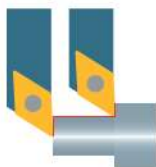


#### Application:

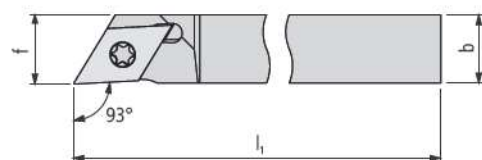
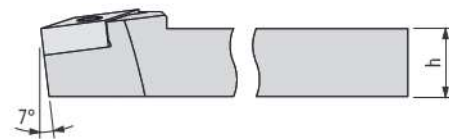
- micro finishing
- chip breaker for general application
- alloyed steel and stainless steel

Handwriting practice lines consisting of 30 horizontal dashed lines.





SDJN... (93°)



Order designation		Dimensions								Inserts
L	R	h	b	l <sub>1</sub>		f				□ 250...

STANDARD-LINE

SDJNL 1012 F11	■	SDJNR 1012 F11	■	10	12	80		12		DN... 11...
SDJNL 1012 H11	■	SDJNR 1012 H11	■	10	12	100		12		DN... 11...
SDJNL 1212 H11	■	SDJNR 1212 H11	■	12	12	100		12		DN... 11...
SDJNL 1616 K11	■	SDJNR 1616 K11	■	16	16	125		16		DN... 11...
SDJNL 2020 K11	■	SDJNR 2020 K11	■	20	20	125		20		DN... 11...
SDJNL 2525 M11	■	SDJNR 2525 M11	■	25	25	150		25		DN... 11...

SDJN... (93°) INCH

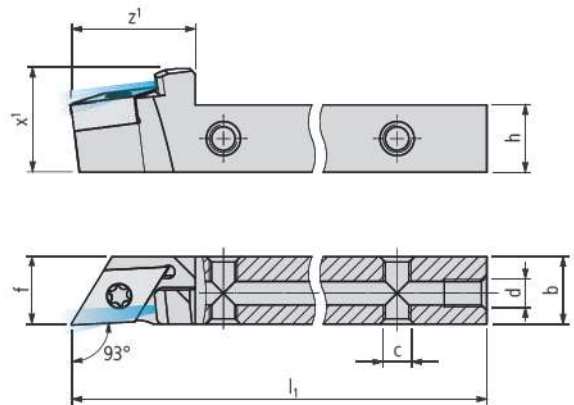
Order designation		Dimensions								Inserts
L	R	h	b	l <sub>1</sub>		f				□ 250...

STANDARD-LINE

SDJNL 3/8" F11	■	SDJNR 3/8" F11	■	9.525	9.525	80		9.525		DN... 11...
SDJNL 3/8" H11	■	SDJNR 3/8" H11	■	9.525	9.525	100		9.525		DN... 11...
SDJNL 1/2" H11	■	SDJNR 1/2" H11	■	12.7	12.7	100		12.7		DN... 11...
SDJNL 5/8" K11	■	SDJNR 5/8" K11	■	15.875	15.875	125		15.875		DN... 11...
SDJNL 3/4" K11	■	SDJNR 3/4" K11	■	19.05	19.05	125		19.05		DN... 11...



With internal cooling



SDJN... IC (93°)

Order designation		Dimensions								Inserts	
L	R	h	b	l <sub>1</sub>	z¹	x¹	c	d	f	□ 250...	

**PREMIUM-LINE**

SDJNL 0808 H11 IC	■	SDJNR 0808 H11 IC	■	8	8	100	22	16.5	M5	M5	8	DN.. 11...
SDJNL 1012 H11 IC	■	SDJNR 1012 H11 IC	■	10	12	100	22	16.5	M5	M5	12	DN.. 11...
SDJNL 1212 H11 IC	■	SDJNR 1212 H11 IC	■	12	12	100	22	18.5	M5	M5	12	DN.. 11...
SDJNL 1616 K11 IC	■	SDJNR 1616 K11 IC	■	16	16	125	22	22.5	M5	G½"	16	DN.. 11...
SDJNL 2020 K11 IC	■	SDJNR 2020 K11 IC	■	20	20	125	22	26.5	M5	G½"	20	DN.. 11...
SDJNL 2525 K11 IC	■	SDJNR 2525 K11 IC	■	25	25	125	22	31.5	M5	G½"	25	DN.. 11...

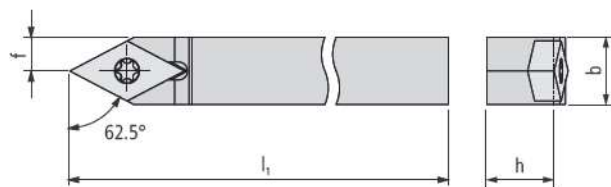
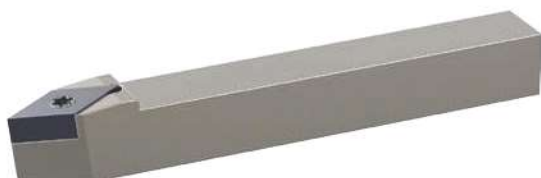
SDJN... IC (93°) INCH

Order designation		Dimensions								Inserts	
L	R	h	b	l <sub>1</sub>	z¹	x¹	c	d	f	□ 250...	

**PREMIUM-LINE**

SDJNL 3/8" H11 IC	■	SDJNR 3/8" H11 IC	■	9.525	12	100	22	16	M5	M5	12	DN.. 11...
SDJNL 1/2" H11 IC	■	SDJNR 1/2" H11 IC	■	12.7	12.7	100	22	19.2	M5	M5	12.7	DN.. 11...
SDJNL 5/8" K11 IC	■	SDJNR 5/8" K11 IC	■	15.875	15.875	125	22	22.4	M5	G½"	15.875	DN.. 11...
SDJNL 3/4" K11 IC	■	SDJNR 3/4" K11 IC	■	19.05	19.05	125	22	25.5	M5	G½"	19.05	DN.. 11...

**Scope of delivery:** Holder without coolant connector  
Coolant system ..... □ 619...



SDNNN ... (62.5°)

Order designation				Dimensions							Inserts
N				h	b	l <sub>1</sub>		f			□ 250...

STANDARD-LINE

SDNNN 1012 H11	■			10	12	100		6			DN..11..
SDNNN 1212 H11	■			12	12	100		6			DN..11..
SDNNN 1616 K11	■			16	16	125		8			DN..11..
SDNNN 2020 K11	■			20	20	125		10			DN..11..
SDNNN 2525 K11	■			25	25	125		12.5			DN..11..

SDNNN ... (62.5°) INCH

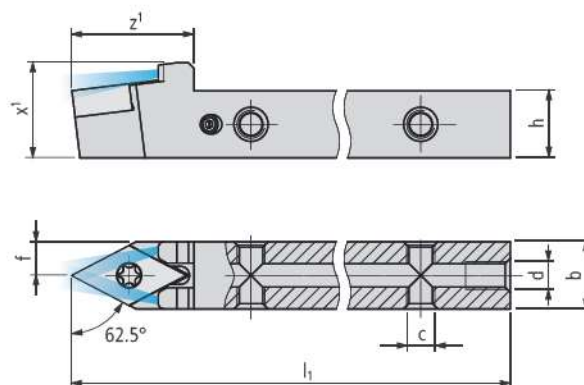
Order designation				Dimensions							Inserts
N				h	b	l <sub>1</sub>		f			□ 250...

STANDARD-LINE

SDNNN 3/8" H11	■			9.525	9.525	100		4.76			DN..11..
SDNNN 1/2" H11	■			12.7	12.7	100		6.35			DN..11..
SDNNN 5/8" K11	■			15.875	15.875	125		7.94			DN..11..
SDNNN 3/4" K11	■			19.05	19.05	125		9.525			DN..11..



With internal cooling



## SDNNN ... IC (62.5°)

Order designation				Dimensions							Inserts	
N				h	b	l <sub>1</sub>	z <sup>1</sup>	x <sup>1</sup>	c	d	f	□ 250...
<b>PREMIUM-LINE</b>												
SDNNN 1012 H11 IC	■			10	12	100	22	15	M5	M5	6	DN..11..
SDNNN 1212 H11 IC	■			12	12	100	22	17	M5	M5	6	DN..11..
SDNNN 1616 K11 IC	■			16	16	125	22	21	M5	G½"	8	DN..11..
SDNNN 2020 K11 IC	■			20	20	125	22	25	M5	G½"	10	DN..11..
SDNNN 2525 K11 IC	■			25	25	125	25	30.5	M5	G½"	12.5	DN..11..

## SDNNN ... IC (62.5°) INCH

Order designation				Dimensions							Inserts	
N				h	b	l <sub>1</sub>	z <sup>1</sup>	x <sup>1</sup>	c	d	f	□ 250...
<b>PREMIUM-LINE</b>												
SDNNN 3/8" H11 IC	■			9.525	9.525	100	22	14.525	M5	M5	4.76	DN..11..
SDNNN 1/2" H11 IC	■			12.7	12.7	100	22	17.7	M5	M5	6.35	DN..11..
SDNNN 5/8" K11 IC	■			15.875	15.875	125	22	20.875	M5	G½"	7.94	DN..11..
SDNNN 3/4" K11 IC	■			19.05	19.05	125	22	24.05	M5	G½"	9.525	DN..11..

**Scope of delivery:** Holder without coolant connector

Coolant system ..... □ 619...

Legend ..... □ 8...



For holders (SD.N...) OD turning

Illustration	Description	Dimensions	Order designation		Holder
	TORX screw	M4 × 11 TP15	MSP 40110 TP15	■	SDJN. 11

256

TORX screwdriver  651...

Handwriting practice lines consisting of 30 horizontal dashed lines.

multidec®-ISO provides a well balanced range of tools for turning with rhombic 35° inserts and holders. Positive inserts with rounded cutting edges for roughing and sharp cutting edges for finishing are available.

These include a wide range of ground holders with hardened and nickel-plated surfaces for Swiss type automatic lathes with shank sizes from 8 to 20 mm and boring bars with diameters from 12 to 20 mm.



**Advantages:**

- Carbide and Cermet grades with chip breaker and coatings for all common materials
- Diamond range with CVD and PCD inserts for machining non-ferrous metals
- Cutting edge radius from 0.05 to 0.8 mm as standard
- Boring bars with steel- and carbide shanks



"IC" tool holder with integrated cooling

Cost-efficient processing of modern materials increasingly requires accurate control of the coolant at the cutting edge. Conveying the coolant as close as possible to the cutting edge is often a difficult task in the machine rooms of Swiss type turning lathes.

The multidec®-IC program offers a wide range of holders with integrated cooling. Because of the high precision and pressure, it is possible to discharge the chip quickly and safely from the cutting edge and the workpiece, which protects the cutting edge of the insert. This means significantly longer tool life as well as very reliable serial production.

**Advantages:**

- All holders feature five possible connectors for the coolant supply
- Constant coolant discharge means low build-up at front near the holder
- With or without high pressure, the coolant medium always hits the cutting edge precisely



"TWIN" holder with and without integrated coolant supply

The "TWIN" range allows you to work with two inserts on the same holder.

Different combinations are possible, and provide the user with a high degree of flexibility. Holders are available with shank cross-sections of 8 to 20 mm, with and without internal cooling.

**Advantages:**

- Twice the number of tools on the machine
- Two different turning operations are possible with a single tool holder
- All holders with an integrated coolant supply have five connecting options

## Inserts (carbide / cermet)



VCGT ... FN -A3, VCGT ... EN -A3	260
VCGT ... -PA5	262
VCGT ... -TOP5	263
VCGT ... -PA7	264
VCXT ... -PA9	265
VCGT ... -PF	266
VCMT ... -PF	267
VCET ... -PF05	268
VCGT ... FN -PF23, VCGT ... EN -PF23	269
VCGT ... FN -PF33, VCGT ... EN -PF33	271
VCMT ... -PF43	273
VCMT ... -PM	274
VCMT ... -PMF	275
VCMT ... -PM25	276
VCMT ... -PM55	277

## Inserts (diamond)



VCGT ...	278
VCGT ... -UWS, VCGT ... -UWN	279
VCGW ...	281

## Holders (OD turning)



SVAC... U (90°)	283
SVJC... U (93°), SVJC... U IC (93°)	284
SVHC... U (107.5°), SVHC... U IC (107.5°)	286
SVPC... U (117.5°), SVPC... U IC (117.5°)	288
SVQC... (93°)	290
SVUC... (93°)	291
SVVCN ... U (72.5°), SVVCN ... U IC (72.5°)	292
SVXC... U (91°), SVXC... U IC (91°)	294
SVJC. (93°)/1600... TWIN, SVJC. (93°)/1600... IC TWIN	296

## Holders (ID turning)



A... SVQC... (107.5°)	298
A... SVOC... (95°)	299
A... SVUC... (93°)	300

## Replacement and spare parts

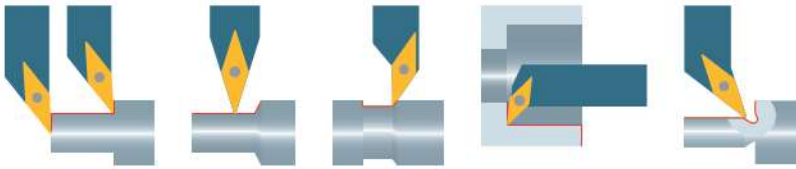


301

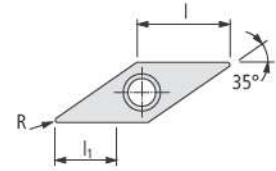
## Coolant system and accessories



619



VCGT ... FN -A3


 $\beta: 30^\circ$   
 $s: \pm 0.13$   
 $C: < 0.002$ 

Order designation	Carbide																20	Cermet			Diamond	Dimensions			Holder
	-	-	●	●	○	●	●	●	○	○	●	●	○	●	●	●	-	-	-						
	-	●	●	●	-	○	●	●	-	○	○	●	●	-	○	●	○	-	-	-					
	○	○	-	-	-	-	○	●	○	○	○	-	-	-	-	○	○	-	-	-					
	●	○	-	-	-	○	-	-	-	○	○	-	-	-	○	-	-	●	●	●					
	-	-	●	-	-	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-					
UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20							

### STANDARD-LINE

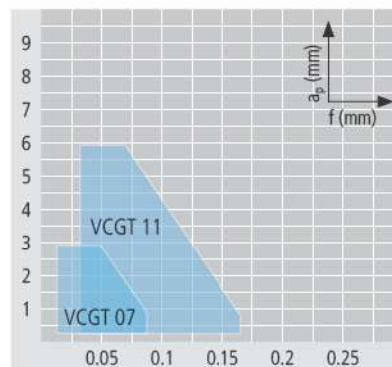
N	VCGT 0702006 FN -A3 ...	■	■	■																		6.8	0.06	3	SV...07...
	VCGT 070201 FN-A3	■	■	■																		6.8	0.1	3	SV...07...
	VCGT 0702015 FN-A3	■	■	■																		6.8	0.15	3	SV...07...
	VCGT 1103008 FN -A3 ...	■	■	■		■	■	■														11.1	0.08	6	SV...11...
	VCGT 1103015 FN -A3 ...	■	■	■		■	■	■														11.1	0.15	6	SV...11...
	VCGT 1103035 FN -A3 ...	■	■	■		■	■	■														11.1	0.35	6	SV...11...

### Application range of chip breaker

#### Properties:

- polished rake
- ground clearance
- sharp cutting edge "F"
- submicrograin carbide, heat and wear resistant

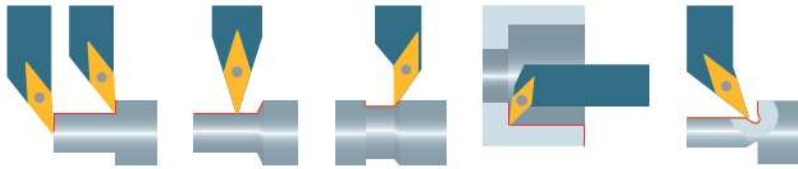
Optimal chip breaking



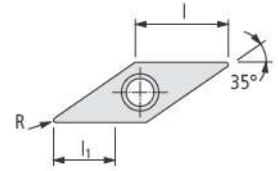
#### Application:

- micro finishing
- chip breaker for general application
- stainless steel, alloyed steel, titanium, super alloy, aluminum and synthetics reinforced/ composites





VCGT ... EN -A3



$\beta$ : 30°  
 $s$ :  $\pm 0.13$   
 $C$ : <0.03

Order designation	Carbide																20	Cermet	Diamond	Dimensions				Holder
	-	-	●	●	○	●	●	●	○	○	●	●	●	○	○	○	○	○	○	-	-	-	-	□ 283...
	○	●	●	-	-	○	●	●	○	○	●	●	●	○	○	○	○	○	○	-	-	-	-	
	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	●	●	-	-	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20					

### STANDARD-LINE

N	VCGT 1103008 EN -A3 ...				■	■	■																	11.1	0.08	6	SV...11...
	VCGT 1103015 EN -A3 ...				■	■	■																	11.1	0.15	6	SV...11...
	VCGT 1103035 EN -A3 ...				■	■	■																	11.1	0.35	6	SV...11...

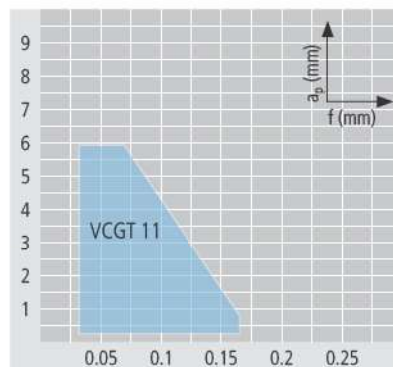
### Application range of chip breaker

multidec®-ISO

#### Properties:

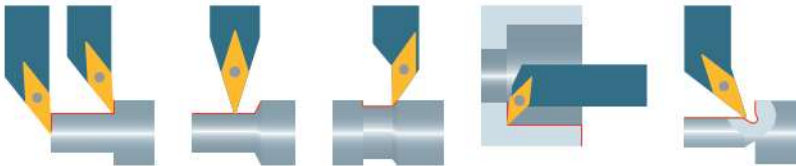
- polished rake
- ground clearance
- little rounded cutting edge "E"
- submicrograin carbide, heat and wear resistant

Optimal chip breaking

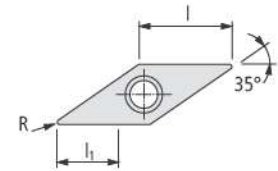


#### Application:

- finishing
- chip breaker for general application
- stainless steel, alloyed steel, titanium, super alloy, aluminum and synthetics reinforced/ composites



VCGT ... -PA5


 $\beta$ : 25°  
 $s$ :  $\pm 0.13$   
 $C$ :  $< 0.002$ 

Order designation	Carbide												20	Cermet			Diamond			Dimensions				Holder
	-	-	●	●	○	●	●	●	●	○	○	○	○	●	●	●	○	○	○	-	-	-	-	□ 283...
	○	●	●	-	-	○	●	●	●	○	○	○	○	○	○	○	○	○	○	-	-	-	-	
	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	L <sub>1</sub>		
<b>STANDARD-LINE</b>																								
N	VCGT 110302 FN -PA5 ...	■	■	■																11.1	0.2	6.8		SV...11...
	VCGT 110304 FN -PA5 ...	■	■	■																11.1	0.4	6.8		SV...11...
	VCGT 160404 FN -PA5 ...	■	■	■																16.6	0.4	8.9		SV...16...
	VCGT 160408 FN -PA5 ...	■	■	■																16.6	0.8	8.9		SV...16...

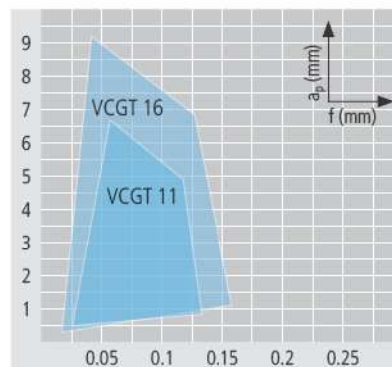
## Application range of chip breaker

multidec®-ISO

## Properties:

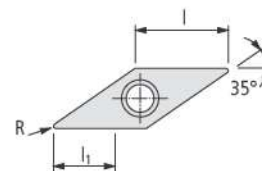
- polished rake
- ground clearance
- sharp cutting edge "F"
- submicrograin carbide, heat and wear resistant

Optimal chip breaking



## Application:

- finishing and micro finishing
- chip breaker for materials with difficult chip control
- stainless steel, alloyed steel, titanium, super alloy, aluminum and synthetics reinforced/composites

VC<sup>GT</sup> ... -TOP5\*

$\beta$ : 25°  
s:  $\pm 0.13$   
C:  $< 0.002$

Order designation	Carbide																	20	Cermet	Diamond	Dimensions			Holder 283...		
	-	-	●	●	○	●	●	●	○	○	●	●	○	●	●	●	-								-	-
	-	●	●	-	○	●	●	○	○	●	●	○	○	○	○	-	-								-	
	○	●	●	-	○	●	●	-	○	○	○	○	○	○	-	-	-								-	
	○	○	-	-	●	○	-	-	○	○	-	-	○	-	-	●	●								●	
	-	-	●	-	-	-	○	-	-	-	-	-	-	-	-	-	-								-	
JHM 10	JHM 10 HX	JHM 10 TX+	JHM 10 MZ	JHM 20	JHM 20 HPX	JHM 20 TX+	JHM 20 MZ	JHM 30	JHM 30 HX	JHM 30 TX+	JHM 30 MZ	JHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	I <sub>1</sub>					

**STANDARD-LINE**

[illegible]

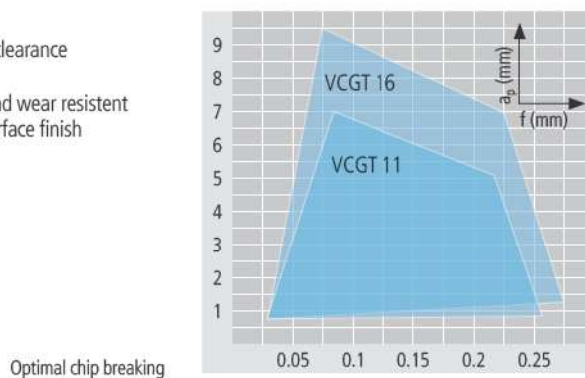
\* Description TOP 13

### Application range of chip breaker

*multidec®-ISO*

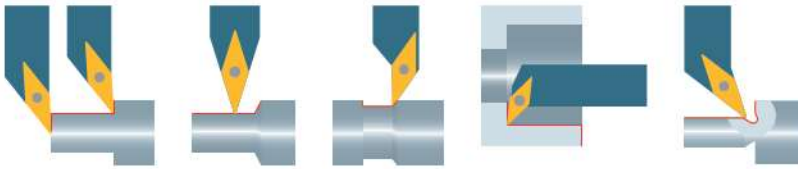
**Properties:**

- polished rake and ground clearance
- sharp cutting edge "F"
- micrograin carbide, heat and wear resistant
- TOP system, for a better surface finish

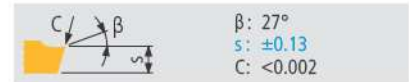
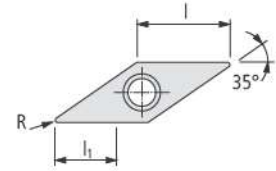



**Application:**

- finishing for 20–100 % higher feed rates compared to the standard
- chip breaker for materials with difficult chip control
- stainless steel, alloyed steel, titanium, super alloy, aluminum and synthetics reinforced/composites



VCGT ... -PA7



Order designation	Carbide												 20	Cermet			Diamond			Dimensions			Holder	
	-	-	●	●	○	●	●	●	●	○	○	●	●	○	●	●	●	-	-					
	-	●	●	-	○	●	●	●	○	○	○	●	●	○	●	●	○	-	-	-				
	○	●	●	-	○	●	●	●	-	○	○	●	●	-	-	○	○	-	-	-				
	●	○	-	-	●	○	-	-	○	○	-	-	-	○	-	-	-	●	●	●				
-	-	●	-	-	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-					
UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	I <sub>1</sub>			
																						283...		

### STANDARD-LINE

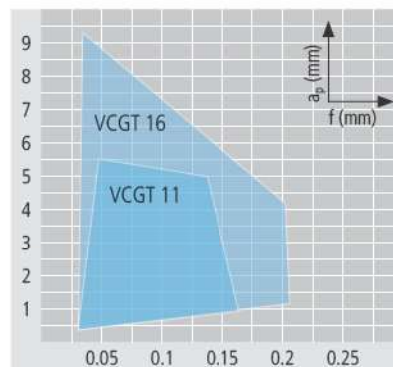
N	VCGT 1103005 FN -PA7 ...	■	■	■																11.1	0.05	5.5		SV...11...
	VCGT 110301 FN -PA7 ...	■	■	■																11.1	0.1	5.5		SV...11...
	VCGT 110302 FN -PA7 ...	■	■	■																11.1	0.2	5.5		SV...11...
	VCGT 110304 FN -PA7 ...	■	■	■																11.1	0.4	5.5		SV...11...
	VCGT 110308 FN -PA7 ...	■	■	■																11.1	0.8	5.5		SV...11...
	VCGT 160402 FN -PA7 ...	■	■	■																16.6	0.2	8.9		SV...16...
	VCGT 160404 FN -PA7 ...	■	■	■																16.6	0.4	8.9		SV...16...
	VCGT 160408 FN -PA7 ...	■	■	■																16.6	0.8	8.9		SV...16...

### Application range of chip breaker

#### Properties:

- ground clearance
- sharp cutting edge "F"
- micrograin carbide, heat and wear resistant

Optimal chip breaking



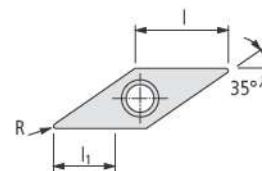
#### Application:

- micro finishing
- chip breaker for materials with good chip control
- stainless steel, alloyed steel, titanium, super alloy, aluminum and synthetics reinforced/ composites





VCXT ... -PA9



$\beta$ : 25°  
s:  $\pm 0.1$   
C:  $< 0.01$

Order designation	Carbide														□ 20	Cermet			Diamond			Dimensions				Holder													
	-	-	●	●	○	●	●	●	●	○	○	●	○	●	●	●	-	-	-	I R I <sub>1</sub>				□ 283...															
	-	●	●	●	-	○	●	●	●	-	○	○	●	●	○	-	-	-																					
	○	●	●	●	-	○	●	●	●	-	○	○	●	●	-	-	-																						
	-	○	-	-	●	○	-	○	○	-	○	-	-	-	●	●	●																						
UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20																					
																				VALUE-LINE																			
N	VCXT 160404 EN -PA9 ...	■	■	□																16.6	0.4	8.9		SV...16...															
	VCXT 160408 EN -PA9 ...	■	■	□																16.6	0.8	8.9		SV...16...															

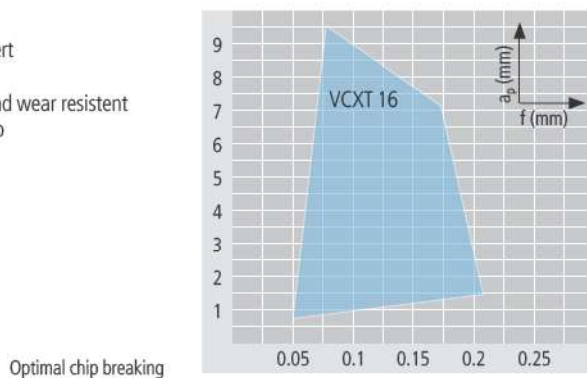
**VALUE-LINE**

### Application range of chip breaker

*multidec®-ISO*

**Properties:**

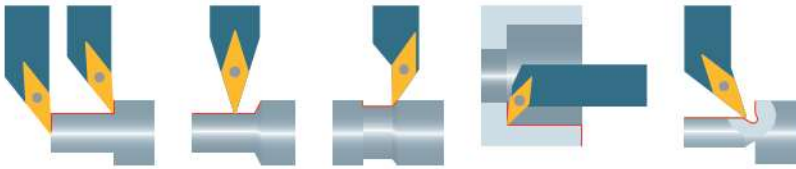
- high precision sintered insert
- rounded cutting edge "E"
- micrograin carbide, heat and wear resistant
- best performance-cost ratio



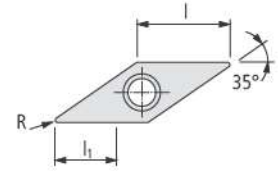
**Application:**

- finishing
- chip breaker for soft materials with good chip control
- alloyed steel, stainless steel, super alloy, titanium and aluminum





VCGT ... -PF


 $\beta: 8^\circ$   
 $s: \pm 0.13$   
 $C: < 0.01$ 

Order designation	Carbide												20	Cermet			Diamond			Dimensions			Holder
	-	-	●	●	○	●	●	●	●	○	○	○	○	●	●	●	●	●	●	-	-	-	□ 283...
	○	●	●	-	○	●	●	●	●	○	○	○	○	○	○	○	○	○	○	-	-	-	
	○	○	○	-	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	L	R	L <sub>1</sub>	

### STANDARD-LINE

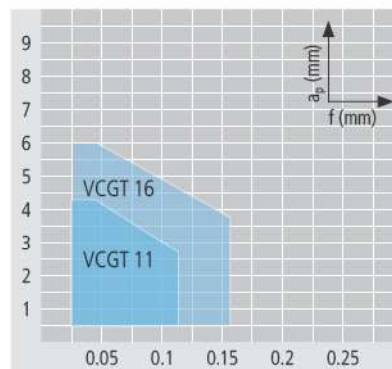
N	VCGT 110302 EN -PF ...			■			■			■	■	■								11.1	0.2	4.8	SV...11...
	VCGT 110304 EN -PF ...			■			■			■	■	■								11.1	0.4	4.8	SV...11...
	VCGT 110308 EN -PF ...			■			■			■	■	■								11.1	0.8	4.8	SV...11...
	VCGT 160404 EN -PF ...										■	■	■							16.6	0.4	6	SV...16...
	VCGT 160408 EN -PF ...										■	■	■							16.6	0.8	6	SV...16...

### Application range of chip breaker

#### Properties:

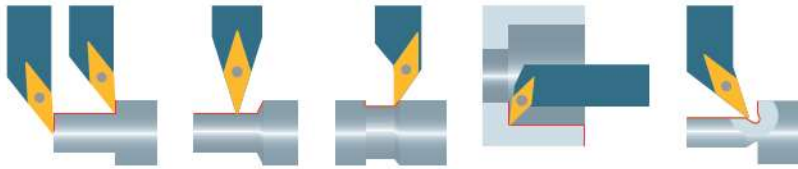
- ground clearance
- little rounded cutting edge "E"
- carbide and cermet in different grades

Optimal chip breaking

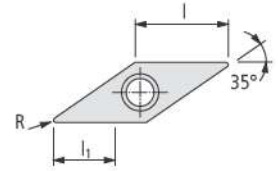


#### Application:



- finishing and micro finishing
- chip breaker for general application
- alloyed steel and stainless steel



VCMT ... -PF



β: 8°  
s: ±0.13  
C: <0.02

Order designation	Carbide																 20	Cermet			Diamond			Dimensions				Holder
	-	-	●	●	○	●	●	●	○	○	●	●	●	○	○	○	-	-	-	 283...								
	-	●	●	-	-	○	●	●	-	○	○	●	●	-	○	○	-	-	-									
	○	●	●	-	-	○	●	●	-	○	○	●	●	-	○	○	-	-	-									
	●	○	-	-	-	○	○	-	-	○	○	-	-	○	-	-	-	●	●		●							
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	I <sub>1</sub>						
<div>VALUE-LINE</div>																												
<div>N</div>	VCMT 160404 EN -PF ...				■				■				■								16.6	0.4	6		SV...16...			
	VCMT 160408 EN -PF ...				■				■												16.6	0.8	6		SV...16...			

VALUE-LINE



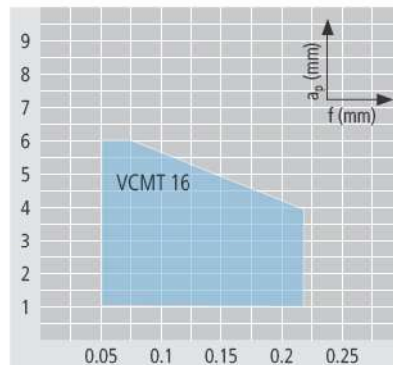
VCMT 160404 EN -PF ...

VCMT 160408 EN -PF ...

Application range of chip breaker

Properties:

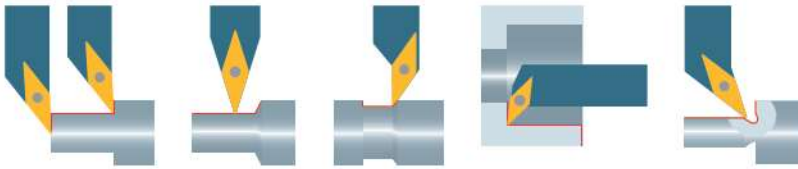
- sintered insert based on ISO standard
- rounded cutting edge "E"
- carbide and cermet in different grades



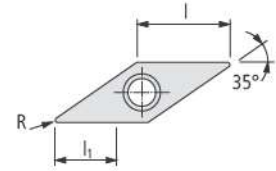
Optimal chip breaking

Application:

- roughing
- chip breaker for general application
- alloyed steel and stainless steel



VCET ... -PF05



Order designation	Carbide																20	Cermet	Diamond	Dimensions				Holder
	-	-	●	●	○	●	●	●	●	○	●	●	●	●	●	●	○	●	●	-	-	-	-	□ 283...
	-	●	●	●	-	○	●	●	●	○	●	●	●	●	●	●	○	●	●	-	-	-	-	
	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20					

**PREMIUM-LINE**

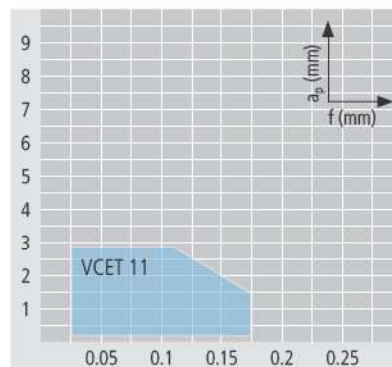
N	VCET 1103005 FN -PF05	■																						11.1	0.05	3		SD...11...
	VCET 110301 FN -PF05	■																						11.1	0.1	3		SD...11...
	VCET 1103015 FN -PF05	■																						11.1	0.15	3		SD...11...
	VCET 110302 FN -PF05	■																						11.1	0.2	3		SD...11...
	VCET 110304 FN -PF05	■																						11.1	0.4	3		SD...11...

**Application range of chip breaker**

**Properties:**

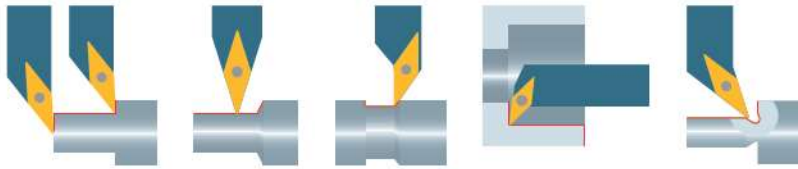
- polished rake
- ground clearance
- sharp cutting edge "F"
- submicrograin carbide, heat and wear resistant

Optimal chip breaking

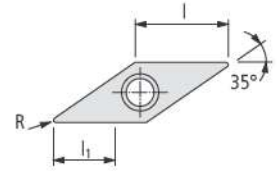


**Application:**

- micro finishing
- chip breaker for materials with difficult chip control
- stainless steel, alloyed steel, titanium, super alloy, aluminum and synthetics reinforced/composites



VCGT ... FN -PF23



$\beta$ : 12°  
 $s$ :  $\pm 0.13$   
 $C$ : <0.002

Order designation	Carbide																20	Cermet	Diamond	Dimensions				Holder
	-	-	●	●	○	●	●	●	●	○	○	●	●	●	●	○	○	○	○	-	-	-	-	□ 283...
	-	○	●	●	-	○	●	●	●	○	○	●	●	●	●	○	○	○	○	-	-	-	-	
	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	●	●	-	○	●	●	●	○	○	●	●	●	●	○	○	○	○	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	I <sub>1</sub>		

### STANDARD-LINE

N	VCGT 1103005 FN -PF23 ...				■	■	■		■											11.1	0.05	4.8		SV...11...
	VCGT 110301 FN -PF23 ...				■	■	■		■											11.1	0.1	4.8		SV...11...
	VCGT 110302 FN -PF23 ...				■	■	■		■											11.1	0.2	4.8		SV...11...
	VCGT 160401 FN -PF23 ...				■	■	■		■											16.6	0.1	8.4		SV...16...
	VCGT 160402 FN -PF23 ...				■	■	■		■											16.6	0.2	8.4		SV...16...

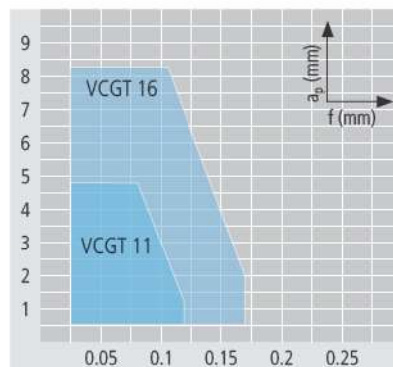
### Application range of chip breaker

multidec®-ISO

#### Properties:

- polished rake
- ground clearance
- sharp cutting edge "F"
- micrograin carbide

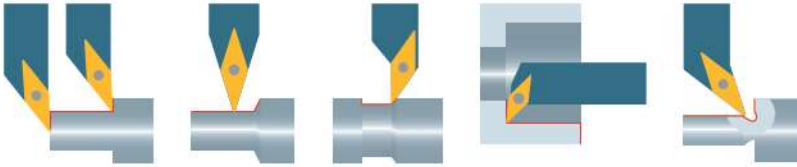
Optimal chip breaking



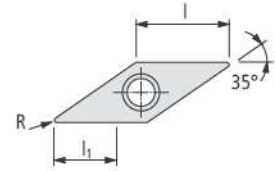
#### Application:

- micro finishing
- chip breaker for materials with difficult chip control
- alloyed steel and stainless steel





VCGT ... EN -PF23


 $\beta: 12^\circ$   
 $s: \pm 0.13$   
 $C: < 0.03$ 

Order designation	Carbide												20	Cermet			Diamond			Dimensions			Holder
	-	-	●	●	○	●	●	●	●	○	●	●	○	●	●	●	-	-	-				
	-	●	●	●	-	○	●	●	●	○	●	●	-	○	●	●	○	-	-	-			
	○	●	●	●	-	-	○	●	●	-	○	●	-	-	-	-	-	-	-	-			
	●	○	-	-	●	○	-	-	○	○	-	-	-	○	-	-	-	●	●	●			
	-	-	●	-	-	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-			
UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	I <sub>1</sub>		

### STANDARD-LINE

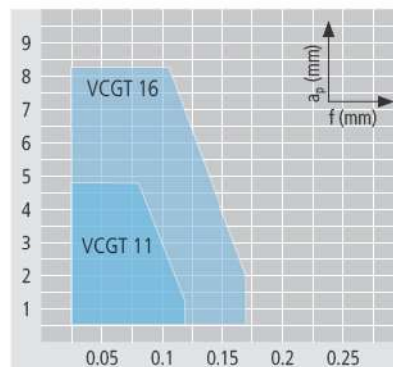
N	VCGT 1103005 EN -PF23 ...			■	■	■														11.1	0.05	4.8		SV...11...
	VCGT 110301 EN -PF23 ...			■	■	■														11.1	0.1	4.8		SV...11...
	VCGT 110302 EN -PF23 ...			■	■	■														11.1	0.2	4.8		SV...11...
	VCGT 160401 EN -PF23 ...			■	■	■														16.6	0.1	8.4		SV...16...
	VCGT 160402 EN -PF23 ...			■	■	■														16.6	0.2	8.4		SV...16...

### Application range of chip breaker

#### Properties:

- polished rake
- ground clearance
- little rounded cutting edge "E"
- micrograin carbide

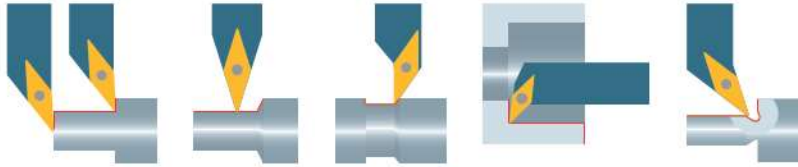
Optimal chip breaking



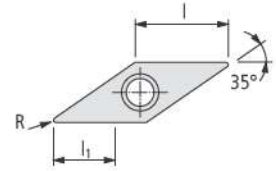
#### Application:

- finishing
- chip breaker for materials with difficult chip control
- alloyed steel and stainless steel





VCGT ... FN -PF33



$\beta: 12^\circ$   
 $s: \pm 0.13$   
 $C: < 0.002$

Order designation	Carbide												20	Cermet			Diamond	Dimensions			Holder		
	-	-	●	●	○	●	●	●	○	○	●	●	○	●	●	●	-	-	-	283...			
	-	●	●	●	○	●	●	●	○	○	●	●	-	○	●	●	○	○	-				
	○	○	-	-	-	○	●	●	-	○	○	○	-	○	○	○	-	-	-				
	●	○	-	-	●	○	-	-	○	○	-	-	○	-	-	-	●	●	●				
	-	-	●	-	-	-	○	-	-	-	-	-	-	-	-	-	-	-	-				
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	I <sub>1</sub>	

### STANDARD-LINE

N	VCGT 1103005 FN -PF33 ...				■	■	■		■											11.1	0.05	4.8		SV...11...
	VCGT 110301 FN -PF33 ...				■	■	■		■											11.1	0.1	4.8		SV...11...
	VCGT 110302 FN -PF33 ...				■	■	■		■											11.1	0.2	4.8		SV...11...
	VCGT 110304 FN -PF33 ...				■	■	■		■											11.1	0.4	4.8		SV...11...
	VCGT 160401 FN -PF33 ...				■	■	■		■											16.6	0.1	8.4		SV...16...
	VCGT 160402 FN -PF33 ...				■	■	■		■											16.6	0.2	8.4		SV...16...
	VCGT 160404 FN -PF33 ...				■	■	■		■											16.6	0.4	8.4		SV...16...

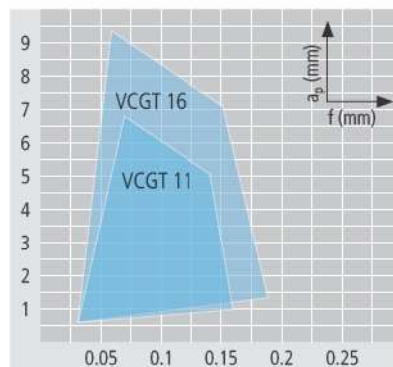
### Application range of chip breaker

multidec®-ISO

#### Properties:

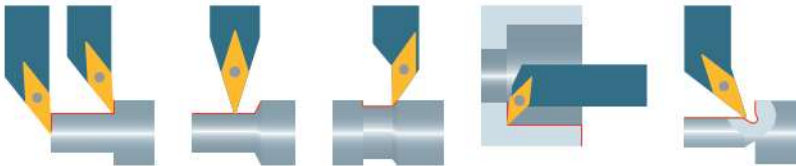
- polished rake
- ground clearance
- sharp cutting edge "F"
- micrograin carbide

Optimal chip breaking

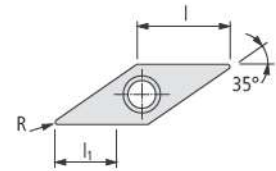


#### Application:

- micro finishing
- chip breaker for materials with difficult chip control
- alloyed steel and stainless steel



VCGT ... EN -PF33


 $\beta: 12^\circ$   
 $s: \pm 0.13$   
 $C: < 0.03$ 

Order designation	Carbide												20	Cermet			Diamond			Dimensions			Holder
	-	-	●	●	○	●	●	●	○	○	●	●	○	●	●	●	○	○	○	-	-	-	□ 283...
	-	●	●	●	-	○	●	●	○	○	●	●	○	○	○	○	○	○	○	-	-	-	
	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	L	R	l <sub>1</sub>	

### STANDARD-LINE

N	VCGT 1103005 EN -PF33 ...				■	■	■													11.1	0.05	4.8	SV...11...
	VCGT 110301 EN -PF33 ...				■	■	■													11.1	0.1	4.8	SV...11...
	VCGT 110302 EN -PF33 ...				■	■	■													11.1	0.2	4.8	SV...11...
	VCGT 110304 EN -PF33 ...				■	■	■													11.1	0.4	4.8	SV...11...
	VCGT 160401 EN -PF33 ...				■	■	■													16.6	0.1	8.4	SV...16...
	VCGT 160402 EN -PF33 ...				■	■	■													16.6	0.2	8.4	SV...16...
	VCGT 160404 EN -PF33 ...				■	■	■													16.6	0.4	8.4	SV...16...

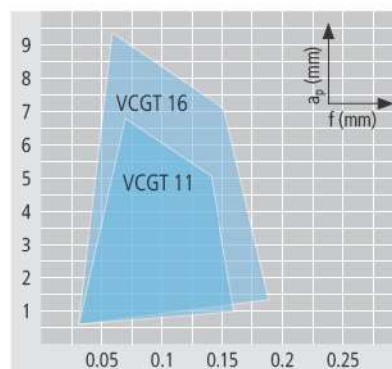
### Application range of chip breaker

multidec®-ISO

#### Properties:

- polished rake
- ground clearance
- little rounded cutting edge "E"
- micrograin carbide

Optimal chip breaking

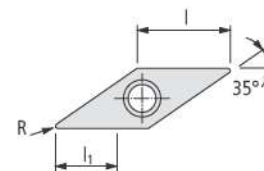


#### Application:

- finishing
- chip breaker for materials with difficult chip control
- alloyed steel and stainless steel



VCMT ... -PF43



$\beta$ :  $12^\circ$   
 $s$ :  $\pm 0.13$   
 $C$ :  $< 0.02$

Order designation	Carbide												20	Cermet			Diamond			Dimensions			Holder
	-	-	●	●	○	●	●	●	○	○	●	●		○	●	●	-	-	-	283...			
	○	-	●	●	-	○	●	●	-	○	○	●		●	-	○	-	-					
	○	●	●	●	-	○	●	●	-	○	○	●		●	-	-	-	-					
	-	○	-	-	●	○	-	-	○	○	-	-		-	○	●	●	●					
	-	-	●	-	-	○	-	-	○	○	-	-		-	-	●	●	●					
UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	I <sub>1</sub>		
VCMT 110302 EN -PF43 ...								■											11.1	0.2	4.8		SV...11...
VCMT 110304 EN -PF43 ...								■											11.1	0.4	4.8		SV...11...
VCMT 160404 EN -PF43 ...								■											16.6	0.4	7		SV...16...

VALUE-LINE

N

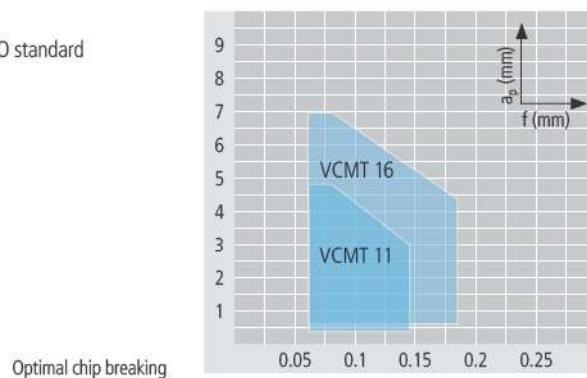
**VALUE-LINE**

### Application range of chip breaker

*multidec®-ISO*

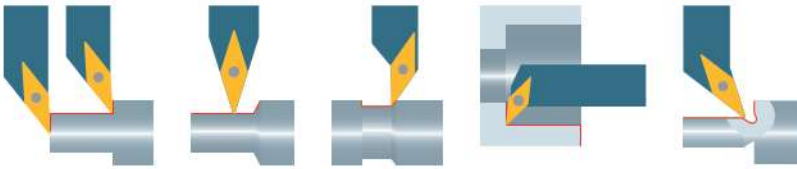
**Properties:**

- sintered insert based on ISO standard
- rounded cutting edge "E"
- micrograin carbide

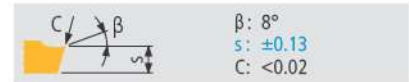
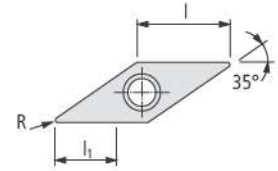


**Application:**

- roughing and finishing
- chip breaker for materials with difficult chip control
- alloyed steel and stainless steel



VCMT ... -PM


 $\beta: 8^\circ$   
 $s: \pm 0.13$   
 $C: < 0.02$ 

Order designation	Carbide																20	Cermet				Diamond				Dimensions				Holder	
	-	-	●	●	○	●	●	●	●	○	○	●	●	●	○	○	○	●	●	●	○	○	○	○	-	-	-	-	-	-	□ 283...
	○	●	●	-	○	●	●	●	○	○	○	●	●	●	○	○	○	○	○	○	○	○	○	-	-	-	-	-	-	-	-
	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UHM 30	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20											
	I	R	I <sub>1</sub>																												
	16.6	0.4	6																												
	16.6	0.8	6																												

# VALUE-LINE

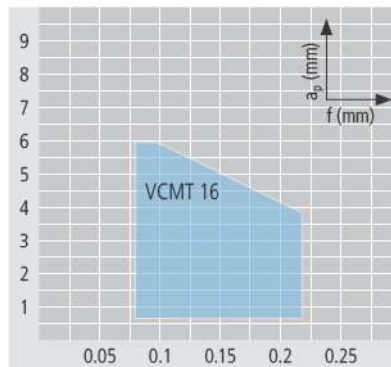
N	VCMT 160404 EN -PM ...			■		■		■																								
	VCMT 160408 EN -PM ...			■		■		■																								

## Application range of chip breaker

### Properties:

- sintered insert based on ISO standard
- rounded cutting edge "E"
- micrograin carbide

Optimal chip breaking



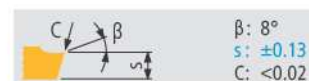
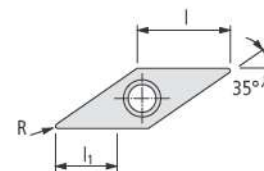
### Application:

- roughing
- chip breaker for general application
- alloyed steel and stainless steel





VCMT ... -PMF



Order designation	Carbide										20	Cermet			Diamond			Dimensions				Holder		
	-	-	●	●	○	●	●	●	○	○	○	○	○	○	○	○	○	-	-	-	283...			
	○	-	●	●	-	○	○	○	○	○	○	○	○	○	○	○	-	-	-					
	○	○	○	-	-	○	○	○	○	○	○	○	○	○	○	○	-	-	-					
	-	-	○	-	○	-	○	-	○	-	○	-	○	-	○	-	-	-	-					
	-	-	●	-	○	-	○	-	○	-	○	-	○	-	○	-	-	-	-					
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	I <sub>1</sub>		
VCMT 110304 EN -PMF ...														■						11.1	0.4	4.1		SV...11...
VCMT 160404 EN -PMF ...														■						16.6	0.4	6		SV...16...
VCMT 160408 EN -PMF ...														■						16.6	0.8	6		SV...16...

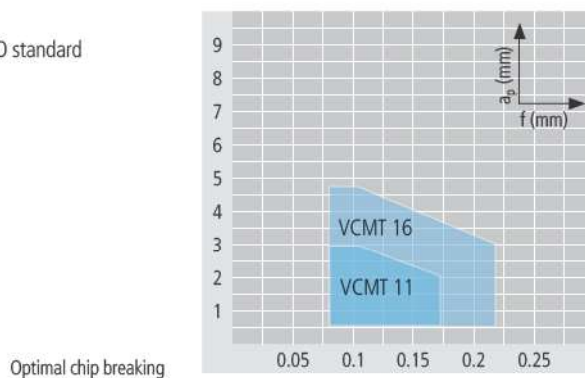
VALUE-LINE

N

### Application range of chip breaker

**Properties:**

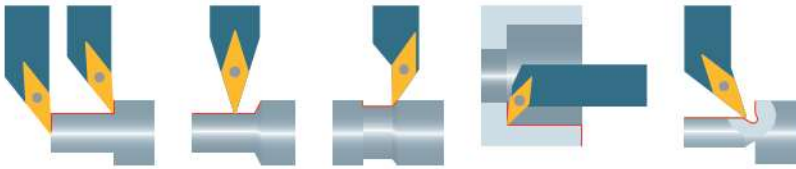
- sintered insert based on ISO standard
- rounded cutting edge "E"
- micrograin carbide



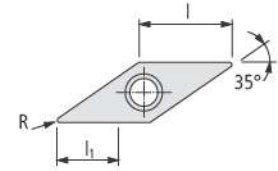
**Application:**

- roughing and finishing
- chip breaker for general application
- alloyed steel and stainless steel





VCMT ... -PM25


 $\beta: 18^\circ$   
 $s: \pm 0.13$   
 $C: < 0.02$ 

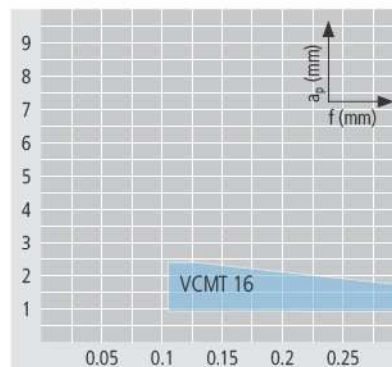
Order designation	Carbide												20	Cermet			Diamond			Dimensions				Holder
	-	-	●	●	○	●	●	●	○	○	●	●	○	●	●	●	○	○	○	-	-	-	-	□ 283...
	○	●	●	-	○	●	●	○	○	○	●	●	○	○	○	○	○	○	○	-	-	-	-	
	○	○	○	-	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	-	-	-	-	
	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	L	R	l <sub>1</sub>		
VALUE-LINE																								
N	VCMT 160404 EN -PM25 ...				■															16.6	0.4	2.2		SV...16...

## Application range of chip breaker

multidec®-ISO

## Properties:

- sintered insert based on ISO standard
- rounded cutting edge "E"
- carbide and cermet in different grades



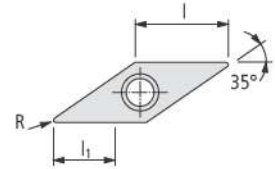
Optimal chip breaking

## Application:

- roughing and finishing
- chip breaker for general application
- stainless steel



VCMT ... -PM55



β: 16°  
s: ±0.13  
C: <0.02

Order designation	Carbide																20	Cermet				Diamond			Dimensions			Holder
	-	-	●	●	○	●	●	●	○	○	●	●	○	○	○	○	○	○	○	○	○	○						
	-	-	●	●	○	●	●	●	○	○	●	●	○	○	○	○	○	○	○	○	○	○						
	○	●	●	●	-	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○						
	●	○	-	-	-	○	○	○	-	○	-	-	○	-	-	-	-	●	●	●	-	-						
UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20										
I	R	I <sub>1</sub>																										

VALUE-LINE

N	VCMT 160404 EN -PM55 ...					■												16.6	0.4	3	SV...16...
	VCMT 160408 EN -PM55 ...					■												16.6	0.8	3.4	SV...16...

VALUE-LINE

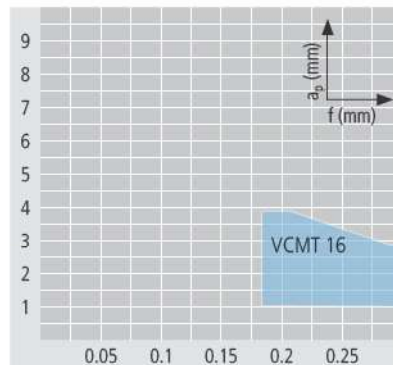


VCMT 160404 EN -PM55 ...					■																											
VCMT 160408 EN -PM55 ...					■																											

Application range of chip breaker

Properties:

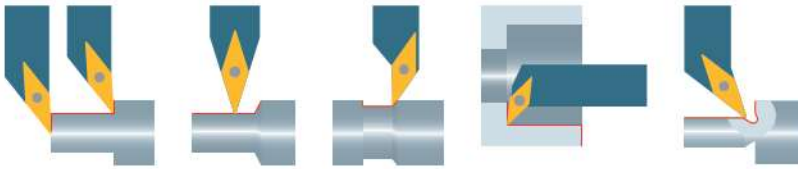
- sintered insert based on ISO standard
- rounded cutting edge "E"
- carbide and cermet in different grades



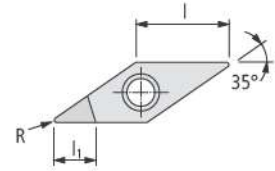
Optimal chip breaking

Application:

- roughing
- chip breaker for general application
- stainless steel



VCGT ...


 $\beta: 7^\circ$   
 $s: \pm 0.13$   
 $C: < 0.002$ 

Order designation	Carbide																20	Cermet	Diamond				Dimensions				Holder
	-	-	●	●	○	●	●	●	●	○	○	●	●	●	●	○	○	○	○	-	-	-	-	-	-	-	□ 283...
	○	●	●	-	-	○	●	●	○	○	○	○	○	○	○	○	○	○	○	-	-	-	-	-	-	-	
	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20								
	I	R	I <sub>1</sub>																								

N	VCGT 110301 FN ...																			■ ■	11.1	0.1	5.4			SV...11...
	VCGT 110302 FN ...																			■ ■	11.1	0.2	4.6			SV...11...
	VCGT 160402 FN ...																			■ ■	16.6	0.2	5.9			SV...16...
	VCGT 160404 FN ...																			■ ■	16.6	0.4	5.5			SV...16...

### STANDARD-LINE

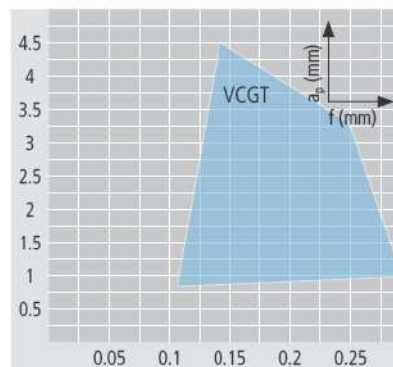
## Application range of chip breaker

multidec®-ISO

### Properties:

- sharp cutting edge "F"
- less cutting force
- positive cut

Optimal chip breaking

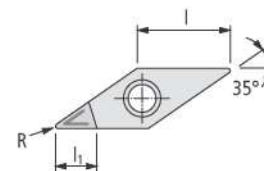


### Application:

- finishing and micro finishing for unstable or thin-walled parts
- chip breaker for general application will generate continuous chip
- aluminum, brass, copper, bronze, platinum, gold, synthetics and synthetics reinforced/composites
- ideal for smallest tolerance and medium surface quality



VCGT ... -UWS



$\beta$ : 15–20°  
 $s$ :  $\pm 0.13$   
 $C$ :  $< 0.002$

Order designation	Carbide												20	Cermet	Diamond	Dimensions			Holder  283...						
	-	-	●	●	○	●	●	●	○	○	●	●								○	●	●	-	-	-
	-	●	●	-	○	●	●	○	○	●	●	-								○	●	○	-	-	-
	○	○	-	-	○	●	-	-	○	○	-	-								○	-	-	-	-	-
	○	○	-	-	●	○	-	-	○	○	-	-								○	-	-	●	●	●
	-	-	●	-	-	-	○	-	-	-	-	-								-	-	-	-	-	-
JHM 10	JHM 10 HX	JHM 10 TX+	JHM 10 MZ	JHM 20	JHM 20 HPX	JHM 20 TX+	JHM 20 MZ	JHM 30	JHM 30 HX	JHM 30 TX+	JHM 30 MZ	JHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	I <sub>1</sub>				

**STANDARD-LINE**

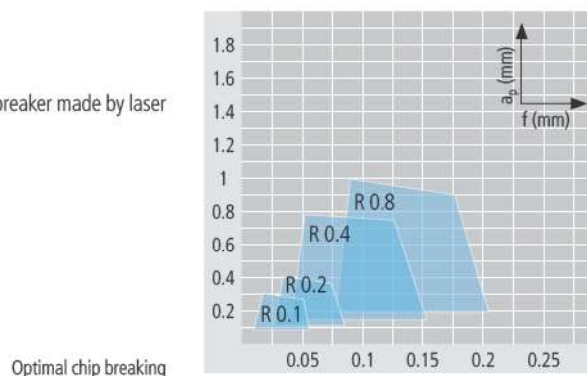
[illegible]

### Application range of chip breaker

*multidec®-ISO*

**Properties:**

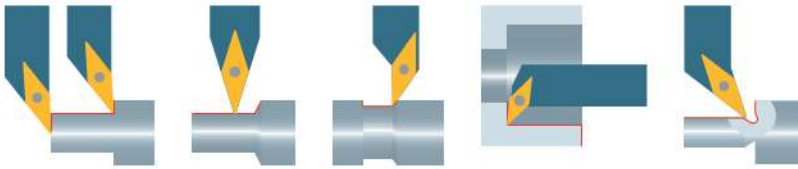
- sharp cutting edge "F"
- almost any cutting force
- high positive narrow chip breaker made by laser



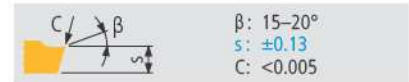
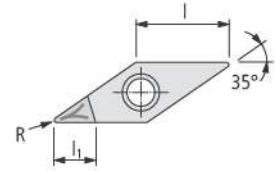
**Application:**

- micro finishing for unstable or thin-walled parts
- chip breaker for materials with difficult chip control
- synthetics reinforced/composites, aluminum, platinum, gold and synthetics
- ideal for smallest tolerance and medium surface quality





VCGT ... -UWN



Order designation	Carbide														D 20		Cermet		Diamond		Dimensions			Holder
	-	-	●	●	○	●	●	●	●	○	●	●	○	○	●	●	-	-	-	□ 283...				
	○	●	●	-	○	●	●	○	○	○	●	●	-	○	○	○	-	-	-					
	●	○	-	○	○	○	-	○	○	○	-	○	-	○	-	-	●	●	●					
	-	-	●	-	-	-	○	-	-	-	-	-	-	-	-	-	-	-	-					
	UHM 10	UHM 10 HX	UHM 10 TX+	UHM 10 MZ	UHM 20	UHM 20 HPX	UHM 20 TX+	UHM 20 MZ	UHM 30	UHM 30 HX	UHM 30 TX+	UHM 30 MZ	UHM 30 SX	UCM 10	UCM 10 HX	UCM 10 MZ	UCVD 08	UPCD 15	UPCD 20	I	R	I <sub>1</sub>		
VCGT 110302 FN -UWN ...																	■	■	11.1	0.2	4.6		SV...11...	
VCGT 110304 FN -UWN ...																	■	■	11.1	0.4	3.9		SV...11...	
VCGT 160404 FN -UWN ...																	■	■	16.6	0.4	5.5		SV...16...	

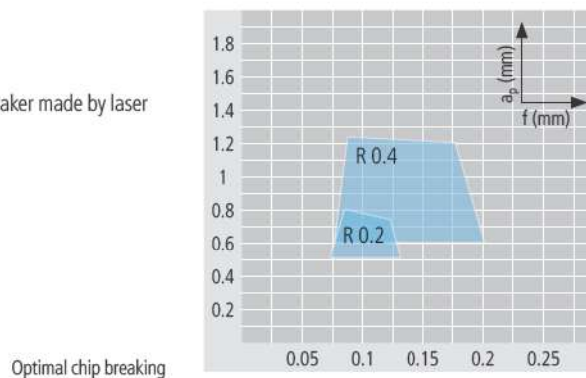
N

STANDARD-LINE

### Application range of chip breaker

**Properties:**

- sharp cutting edge "F"
- higher cutting force
- high positive wide chip breaker made by laser



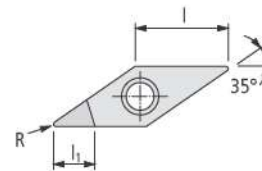
**Application:**

- finishing for stable or solid parts
- chip breaker for materials with difficult chip control
- synthetics reinforced/composites, aluminum, platinum, gold and synthetics
- ideal for smallest tolerance and best surface quality





VCGW ...



$\beta$ :  $0^\circ$   
s:  $\pm 0.13$   
C:  $< 0.002$

[illegible]

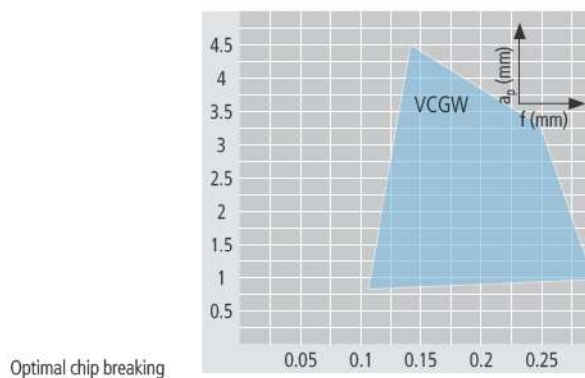
**STANDARD-LINE**

[illegible]

### Application range of chip breaker

**Properties:**

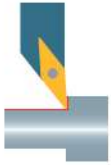
- sharp cutting edge "F"
- medium cutting force
- neutral cut



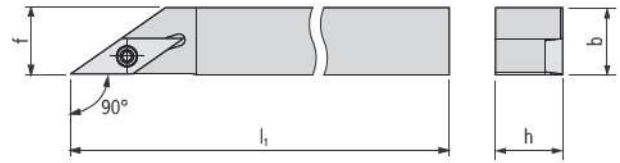
**Application:**

- finishing and micro finishing for stable or solid parts
- chip breaker for general application will generate continuous chip
- aluminum, brass, copper, bronze, platinum, gold, synthetics and synthetics reinforced/composites
- ideal for smallest tolerance and high surface quality

Handwriting practice lines consisting of multiple horizontal dashed lines across the page.



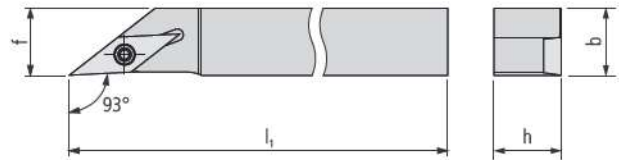
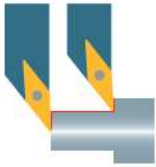
SVAC... U (90°)



Order designation		Dimensions							Inserts
L	R	h	b	l <sub>1</sub>	f				□ 259...

**STANDARD-LINE**

SVACL 0808 F11 U	■	SVACR 0808 F11 U	■	8	8	80	7.85		VC..1103..
SVACL 0808 H07 U	■	SVACR 0808 H07 U	■	8	8	100	7.85		VC..0702..
SVACL 0808 H11 U	■	SVACR 0808 H11 U	■	8	8	100	7.85		VC..1103..
SVACL 1010 F11 U	■	SVACR 1010 F11 U	■	10	10	80	9.85		VC..1103..
SVACL 1010 H07 U	■	SVACR 1010 H07 U	■	10	10	100	9.85		VC..0702..
SVACL 1010 H11 U	■	SVACR 1010 H11 U	■	10	10	100	9.85		VC..1103..
SVACL 1212 H07 U	■	SVACR 1212 H07 U	■	12	12	100	11.85		VC..0702..
SVACL 1212 H11 U	■	SVACR 1212 H11 U	■	12	12	100	11.85		VC..1103..



SVJC... U (93°)

Order designation		Dimensions							Inserts
L	R	h	b	l <sub>1</sub>		f			□ 259...

STANDARD-LINE

SVJCL 0808 F11 U	■	SVJCR 0808 F11 U	■	8	8	80		7.95		VC..1103..
SVJCL 0808 H07 U	■	SVJCR 0808 H07 U	■	8	8	100		7.95		VC..0702..
SVJCL 0808 H11 U	■	SVJCR 0808 H11 U	■	8	8	100		7.95		VC..1103..
SVJCL 1010 F11 U	■	SVJCR 1010 F11 U	■	10	10	80		9.95		VC..1103..
SVJCL 1010 H07 U	■	SVJCR 1010 H07 U	■	10	10	100		9.95		VC..0702..
SVJCL 1010 H11 U	■	SVJCR 1010 H11 U	■	10	10	100		9.95		VC..1103..
SVJCL 1212 H07 U	■	SVJCR 1212 H07 U	■	12	12	100		11.95		VC..0702..
SVJCL 1212 H11 U	■	SVJCR 1212 H11 U	■	12	12	100		11.95		VC..1103..
SVJCL 1216 H16 U	■	SVJCR 1216 H16 U	■	12	16	100		15.95		VC..1604..
SVJCL 1616 K11 U	■	SVJCR 1616 K11 U	■	16	16	125		15.95		VC..1103..
SVJCL 1616 K16 U	■	SVJCR 1616 K16 U	■	16	16	125		15.95		VC..1604..
SVJCL 2020 K11 U	■	SVJCR 2020 K11 U	■	20	20	125		19.95		VC..1103..
SVJCL 2020 K16 U	■	SVJCR 2020 K16 U	■	20	20	125		19.95		VC..1604..

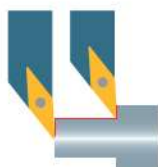
SVJC... U (93°) INCH

Order designation		Dimensions							Inserts
L	R	h	b	l <sub>1</sub>		f			□ 259...

STANDARD-LINE

SVJCL 3/8" F11 U	■	SVJCR 3/8" F11 U	■	9.525	9.525	80		9.475		VC..1103..
SVJCL 3/8" H07 U	■	SVJCR 3/8" H07 U	■	9.525	9.525	100		9.475		VC..0702..
SVJCL 3/8" H11 U	■	SVJCR 3/8" H11 U	■	9.525	9.525	100		9.475		VC..1103..
SVJCL 1/2" H07 U	■	SVJCR 1/2" H07 U	■	12.7	12.7	100		12.65		VC..0702..
SVJCL 1/2" H11 U	■	SVJCR 1/2" H11 U	■	12.7	12.7	100		12.65		VC..1103..
SVJCL 1/2"-5/8" H16 U	■	SVJCR 1/2"-5/8" H16 U	■	12.7	15.875	100		15.825		VC..1604..
SVJCL 3/4" K11 U	■	SVJCR 3/4" K11 U	■	19.05	19.05	125		19		VC..1103..
SVJCL 3/4" K16 U	■	SVJCR 3/4" K16 U	■	19.05	19.05	125		19		VC..1604..

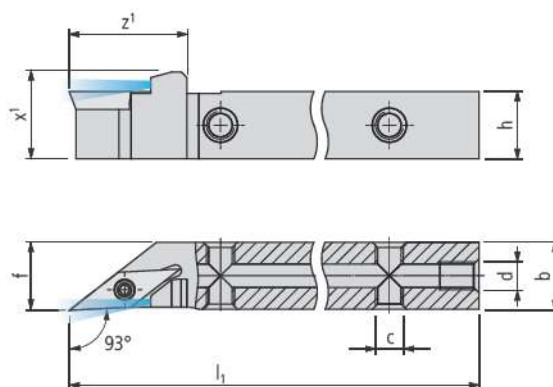




With internal cooling



SVJC... U IC (93°)



Order designation		Dimensions								Inserts	
L	R	h	b	l <sub>1</sub>	z <sup>1</sup>	x <sup>1</sup>	c	d	f	□ 259...	

### PREMIUM-LINE

SVJCL 0808 H07 U IC	■	SVJCR 0808 H07 U IC	■	8	8	100	20	11.5	M5	M5	8	VC.. 0702..
SVJCL 0810 H11 U IC	■	SVJCR 0810 H11 U IC	■	8	10	100	21	11.5	M5	M5	10	VC.. 1103..
SVJCL 1010 H07 U IC	■	SVJCR 1010 H07 U IC	■	10	10	100	20	13.5	M5	M5	10	VC.. 0702..
SVJCL 1010 H11 U IC	■	SVJCR 1010 H11 U IC	■	10	10	100	21	13.5	M5	M5	10	VC.. 1103..
SVJCL 1212 H07 U IC	■	SVJCR 1212 H07 U IC	■	12	12	100	20	15.5	M5	M5	12	VC.. 0702..
SVJCL 1212 H11 U IC	■	SVJCR 1212 H11 U IC	■	12	12	100	21	15.5	M5	M5	12	VC.. 1103..
SVJCL 1216 H16 U IC	■	SVJCR 1216 H16 U IC	■	12	16	100	27	15.5	M5	M5	12	VC.. 1604..
SVJCL 1616 K11 U IC	■	SVJCR 1616 K11 U IC	■	16	16	125	21	19.5	M5	G <sup>1</sup> / <sub>8</sub> "	16	VC.. 1103..
SVJCL 1616 K16 U IC	■	SVJCR 1616 K16 U IC	■	16	16	125	27	19.5	M5	G <sup>1</sup> / <sub>8</sub> "	16	VC.. 1604..
SVJCL 2020 K11 U IC	■	SVJCR 2020 K11 U IC	■	20	20	125	21	23.5	M5	G <sup>1</sup> / <sub>8</sub> "	20	VC.. 1103..
SVJCL 2020 K16 U IC	■	SVJCR 2020 K16 U IC	■	20	20	125	27	23.5	M5	G <sup>1</sup> / <sub>8</sub> "	20	VC.. 1604..

SVJC... U IC (93°) INCH

Order designation		Dimensions								Inserts	
L	R	h	b	l <sub>1</sub>	z <sup>1</sup>	x <sup>1</sup>	c	d	f	□ 259...	

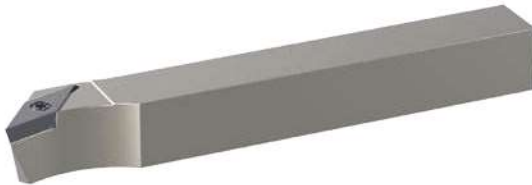
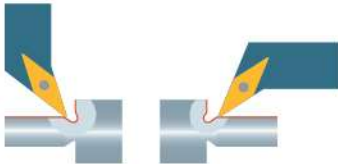
### PREMIUM-LINE

SVJCL 3/8" H07 U IC	■	SVJCR 3/8" H07 U IC	■	9.525	9.525	100	20	13	M5	M5	9.525	VC.. 0702..
SVJCL 3/8" H11 U IC	■	SVJCR 3/8" H11 U IC	■	9.525	9.525	100	21	13	M5	M5	9.525	VC.. 1103..
SVJCL 1/2" H07 U IC	■	SVJCR 1/2" H07 U IC	■	12.7	12.7	100	20	16.2	M5	M5	12.7	VC.. 0702..
SVJCL 1/2" H11 U IC	■	SVJCR 1/2" H11 U IC	■	12.7	12.7	100	21	16.2	M5	M5	12.7	VC.. 1103..
SVJCL 1/2"-5/8" H16 U IC	■	SVJCR 1/2"-5/8" H16 U IC	■	12.7	15.875	100	27	16.2	M5	M5	12.7	VC.. 1604..
SVJCL 5/8" K11 U IC	■	SVJCR 5/8" K11 U IC	■	15.875	15.875	125	21	19.5	M5	G <sup>1</sup> / <sub>8</sub> "	15.875	VC.. 1103..
SVJCL 5/8" K16 U IC	■	SVJCR 5/8" K16 U IC	■	15.875	15.875	125	27	19.5	M5	G <sup>1</sup> / <sub>8</sub> "	15.875	VC.. 1604..
SVJCL 3/4" K11 U IC	■	SVJCR 3/4" K11 U IC	■	19.05	19.05	125	21	22.6	M5	G <sup>1</sup> / <sub>8</sub> "	19.05	VC.. 1103..
SVJCL 3/4" K16 U IC	■	SVJCR 3/4" K16 U IC	■	19.05	19.05	125	27	22.6	M5	G <sup>1</sup> / <sub>8</sub> "	19.05	VC.. 1604..

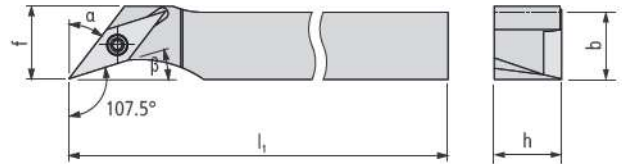
Scope of delivery: Holder without coolant connector

Coolant system ..... □ 619...





SVHC... U (107.5°)



Order designation		Dimensions							Inserts
L	R	h	b	$l_1$	f	a	$\beta$		□ 259...

STANDARD-LINE

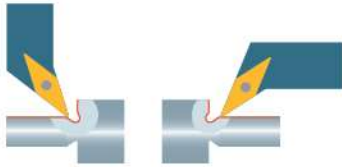
SVHCL 0808 H07 U	■	SVHCR 0808 H07 U	■	8	8	100	8.5	37.5°	17.5°	VC..0702..
SVHCL 1010 H07 U	■	SVHCR 1010 H07 U	■	10	10	100	10	37.5°	17.5°	VC..0702..
SVHCL 1010 H11 U	■	SVHCR 1010 H11 U	■	10	10	100	13	37.5°	17.5°	VC..1103..
SVHCL 1212 H07 U	■	SVHCR 1212 H07 U	■	12	12	100	12	37.5°	17.5°	VC..0702..
SVHCL 1212 H11 U	■	SVHCR 1212 H11 U	■	12	12	100	13	37.5°	17.5°	VC..1103..
SVHCL 1616 K11 U	■	SVHCR 1616 K11 U	■	16	16	125	16	37.5°	17.5°	VC..1103..

SVHC... U (107.5°) INCH

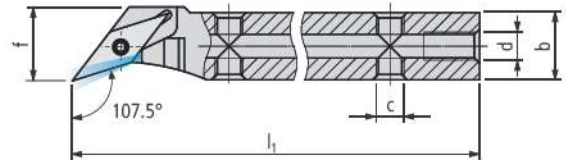
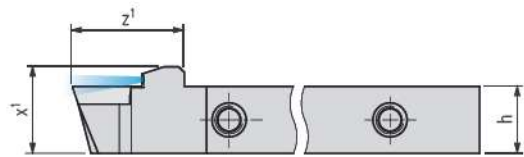
Order designation		Dimensions							Inserts
L	R	h	b	$l_1$	f	a	$\beta$		□ 259...

STANDARD-LINE

SVHCL 3/8" H07 U	■	SVHCR 3/8" H07 U	■	9.525	9.525	100	9.525	37.5°	17.5°	VC..0702..
SVHCL 3/8" H11 U	■	SVHCR 3/8" H11 U	■	9.525	9.525	100	13	37.5°	17.5°	VC..1103..
SVHCL 1/2" H07 U	■	SVHCR 1/2" H07 U	■	12.7	12.7	100	12.7	37.5°	17.5°	VC..0702..
SVHCL 1/2" H11 U	■	SVHCR 1/2" H11 U	■	12.7	12.7	100	13	37.5°	17.5°	VC..1103..
SVHCL 5/8" K11 U	■	SVHCR 5/8" K11 U	■	15.875	15.875	125	16	37.5°	17.5°	VC..1103..



With internal cooling



SVHC... U IC (107.5°)

Order designation				Dimensions								Inserts
L		R		h	b	l <sub>1</sub>	z <sup>1</sup>	x <sup>1</sup>	c	d	f	□ 259...
<b>PREMIUM-LINE</b>												
SVHCL 0808 H07 U IC	■	SVHCR 0808 H07 U IC	■	8	8	100	18	11.5	M5	M5	8.5	VC..0702..
SVHCL 1010 H07 U IC	■	SVHCR 1010 H07 U IC	■	10	10	100	18	13.5	M5	M5	10	VC..0702..
SVHCL 1212 H07 U IC	■	SVHCR 1212 H07 U IC	■	12	12	100	18	15.5	M5	M5	12	VC..0702..
SVHCL 1212 H11 U IC	■	SVHCR 1212 H11 U IC	■	12	12	100	22	15.5	M5	M5	13	VC..1103..
SVHCL 1616 K11 U IC	■	SVHCR 1616 K11 U IC	■	16	16	125	22	19.5	M5	G½"	16	VC..1103..

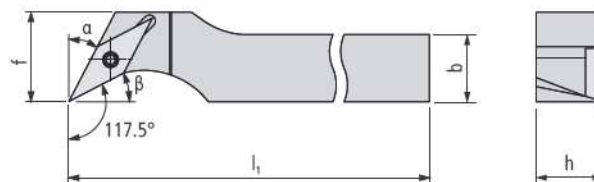
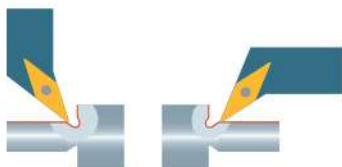
SVHC... U IC (107.5°) INCH

Order designation				Dimensions								Inserts
L		R		h	b	l <sub>1</sub>	z <sup>1</sup>	x <sup>1</sup>	c	d	f	□ 259...
<b>PREMIUM-LINE</b>												
SVHCL 3/8" H07 U IC	■	SVHCR 3/8" H07 U IC	■	9.525	9.525	100	18	13	M5	M5	9.525	VC..0702..
SVHCL 1/2" H07 U IC	■	SVHCR 1/2" H07 U IC	■	12.7	12.7	100	18	16.2	M5	M5	12.7	VC..0702..
SVHCL 1/2" H11 U IC	■	SVHCR 1/2" H11 U IC	■	12.7	12.7	100	22	16.2	M5	M5	12.7	VC..1103..
SVHCL 5/8" K11 U IC	■	SVHCR 5/8" K11 U IC	■	15.875	15.875	125	22	19.4	M5	G½"	15.875	VC..1103..

Scope of delivery: Holder without coolant connector

Coolant system ..... □ 619...

Legend ..... □ 8...



SVPC... U (117.5°)

Order designation		Dimensions							Inserts
L	R	h	b	l <sub>1</sub>	f	a	β		□ 259...

**STANDARD-LINE**

SVPC 0808 H07 U	■	SVPCR 0808 H07 U	■	8	8	100	10	27.5°	27.5°	VC..0702..
SVPC 1010 H07 U	■	SVPCR 1010 H07 U	■	10	10	100	10	27.5°	27.5°	VC..0702..
SVPC 1010 H11 U	■	SVPCR 1010 H11 U	■	10	10	100	16	27.5°	27.5°	VC..1103..
SVPC 1212 H07 U	■	SVPCR 1212 H07 U	■	12	12	100	12	27.5°	27.5°	VC..0702..
SVPC 1212 H11 U	■	SVPCR 1212 H11 U	■	12	12	100	16	27.5°	27.5°	VC..1103..
SVPC 1616 K11 U	■	SVPCR 1616 K11 U	■	16	16	125	16	27.5°	27.5°	VC..1103..

SVPC... U (117.5°) INCH

Order designation		Dimensions							Inserts
L	R	h	b	l <sub>1</sub>	f	a	β		□ 259...

**STANDARD-LINE**

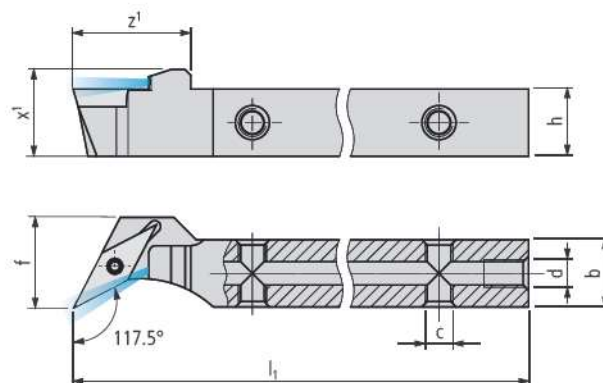
SVPC 3/8" H07 U	■	SVPCR 3/8" H07 U	■	9.525	9.525	100	10	27.5°	27.5°	VC..0702..
SVPC 3/8" H11 U	■	SVPCR 3/8" H11 U	■	9.525	9.525	100	16	27.5°	27.5°	VC..1103..
SVPC 1/2" H07 U	■	SVPCR 1/2" H07 U	■	12.7	12.7	100	12.7	27.5°	27.5°	VC..0702..
SVPC 1/2" H11 U	■	SVPCR 1/2" H11 U	■	12.7	12.7	100	16	27.5°	27.5°	VC..1103..
SVPC 5/8" K11 U	■	SVPCR 5/8" K11 U	■	15.875	15.875	125	16	27.5°	27.5°	VC..1103..



With internal cooling



SVPC... U IC (117.5°)



Order designation		Dimensions								Inserts
L	R	h	b	l <sub>1</sub>	z <sup>1</sup>	x <sup>1</sup>	c	d	f	□ 259...

**PREMIUM-LINE**

SVPC 0808 H07 U IC	■	SVPCR 0808 H07 U IC	■	8	8	100	18	11.5	M5	M5	10	VC..0702..
SVPC 1010 H07 U IC	■	SVPCR 1010 H07 U IC	■	10	10	100	18	13.5	M5	M5	10	VC..0702..
SVPC 1010 H11 U IC	■	SVPCR 1010 H11 U IC	■	10	10	100	22	13.5	M5	M5	16	VC..1103..
SVPC 1212 H07 U IC	■	SVPCR 1212 H07 U IC	■	12	12	100	18	15.5	M5	M5	12	VC..0702..
SVPC 1212 H11 U IC	■	SVPCR 1212 H11 U IC	■	12	12	100	22	15.5	M5	M5	16	VC..1103..
SVPC 1616 K11 U IC	■	SVPCR 1616 K11 U IC	■	16	16	125	22	19.5	M5	G½"	16	VC..1103..

SVPC... U IC (117.5°) INCH

Order designation		Dimensions								Inserts
L	R	h	b	l <sub>1</sub>	z <sup>1</sup>	x <sup>1</sup>	c	d	f	□ 259...

**PREMIUM-LINE**

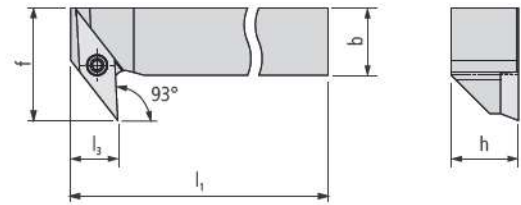
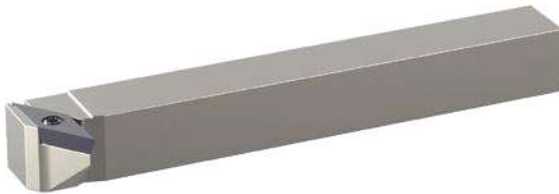
SVPC 3/8" H07 U IC	■	SVPCR 3/8" H07 U IC	■	9.525	9.525	100	18	13	M5	M5	10	VC..0702..
SVPC 3/8" H11 U IC	■	SVPCR 3/8" H11 U IC	■	9.525	9.525	100	22	13	M5	M5	16	VC..1103..
SVPC 1/2" H07 U IC	■	SVPCR 1/2" H07 U IC	■	12.7	12.7	100	18	16.2	M5	M5	12.9	VC..0702..
SVPC 1/2" H11 U IC	■	SVPCR 1/2" H11 U IC	■	12.7	12.7	100	22	16.2	M5	M5	16	VC..1103..
SVPC 5/8" K11 U IC	■	SVPCR 5/8" K11 U IC	■	15.875	15.875	125	22	19.4	M5	G½"	15.875	VC..1103..

**Scope of delivery:** Holder without coolant connector

Coolant system ..... □ 619...



290



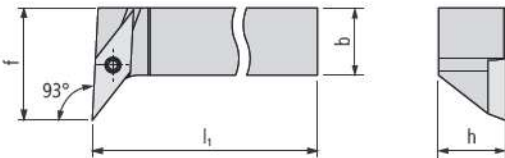
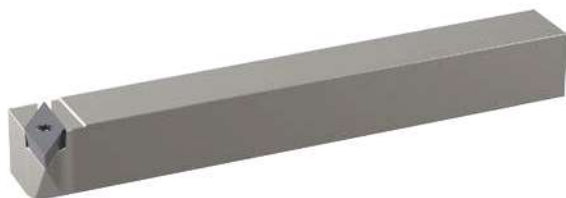
SVQC... (93°)

Order designation		Dimensions								Inserts
L	R	h	b	l <sub>1</sub>		f		l <sub>3</sub>		□ 259...

**STANDARD-LINE**

SVQCL 0808 H07	■	SVQCR 0808 H07	■	8	8	100		13.5		6	VC..0702..
SVQCL 1010 H07	■	SVQCR 1010 H07	■	10	10	100		15.5		6	VC..0702..
SVQCL 1212 H07	■	SVQCR 1212 H07	■	12	12	100		17.5		6	VC..0702..
SVQCL 1212 H11	■	SVQCR 1212 H11	■	12	12	100		20		8.5	VC..1103..
SVQCL 1616 K11	■	SVQCR 1616 K11	■	16	16	125		24		8.5	VC..1103..



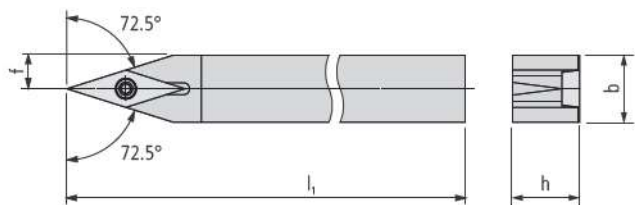


SVUC... (93°)

Order designation		Dimensions								Inserts
L	R	h	b	l <sub>1</sub>		f				□ 259...

STANDARD-LINE

SVUCL 0808 H07	■	SVUCR 0808 H07	■	8	8	100		13.5		VC..0702..
SVUCL 1010 H07	■	SVUCR 1010 H07	■	10	10	100		15.5		VC..0702..
SVUCL 1212 H07	■	SVUCR 1212 H07	■	12	12	100		17.5		VC..0702..
SVUCL 1212 H11	■	SVUCR 1212 H11	■	12	12	100		20		VC..1103..
SVUCL 1616 K11	■	SVUCR 1616 K11	■	16	16	125		24		VC..1103..
SVUCL 2020 K11	■	SVUCR 2020 K11	■	20	20	125		28		VC..1103..



SVVCN ... U (72.5°)

Order designation				Dimensions							Inserts
N				h	b	l <sub>1</sub>		f			□ 259...

STANDARD-LINE

SVVCN 0808 F11 U	■			8	8	80		4			VC..1103..
SVVCN 0808 H07 U	■			8	8	100		4			VC..0702..
SVVCN 0808 H11 U	■			8	8	100		4			VC..1103..
SVVCN 1010 F11 U	■			10	10	80		5			VC..1103..
SVVCN 1010 H07 U	■			10	10	100		5			VC..0702..
SVVCN 1010 H11 U	■			10	10	100		5			VC..1103..
SVVCN 1212 F11 U	■			12	12	80		6			VC..1103..
SVVCN 1212 H07 U	■			12	12	100		6			VC..0702..
SVVCN 1212 H11 U	■			12	12	100		6			VC..1103..
SVVCN 1616 K11 U	■			16	16	125		8			VC..1103..
SVVCN 2020 K11 U	■			20	20	125		10			VC..1103..
SVVCN 2020 K16 U	■			20	20	125		10			VC..1604..

SVVCN ... U (72.5°) INCH

Order designation				Dimensions							Inserts
L		R		h	b	l <sub>1</sub>		f			□ 259...

STANDARD-LINE

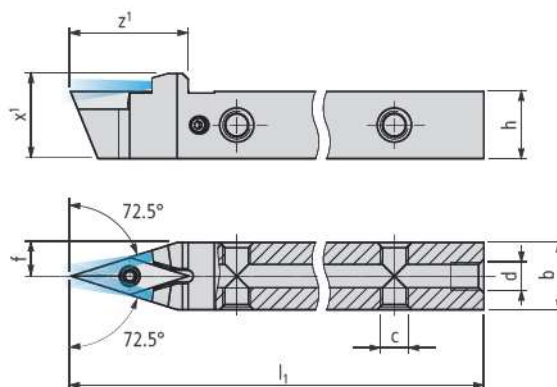
SVVCN 3/8" H07 U	■			9.525	9.525	100		4.76			VC..0702..
SVVCN 3/8" H11 U	■			9.525	9.525	100		4.76			VC..1103..
SVVCN 1/2" H07 U	■			12.7	12.7	100		6.35			VC..0702..
SVVCN 1/2" H11 U	■			12.7	12.7	100		6.35			VC..1103..
SVVCN 5/8" K11 U	■			15.875	15.875	125		7.93			VC..1103..
SVVCN 3/4" K11 U	■			19.05	19.05	125		9.525			VC..1103..
SVVCN 3/4" K16 U	■			19.05	19.05	125		9.525			VC..1604..



With internal cooling



SVVCN ... U IC (72.5°)



Order designation			Dimensions								Inserts	
L		R	h	b	l <sub>1</sub>	z <sup>1</sup>	x <sup>1</sup>	c	d	f	□ 259...	

### PREMIUM-LINE

SVVCN 0808 H07 U IC	■		8	8	100	20	11.5	M5	M5	4	VC..0702..	
SVVCN 0810 H11 U IC	■		8	10	100	21	13.2	M5	M5	5	VC..1103..	
SVVCN 1010 H07 U IC	■		10	10	100	20	13.5	M5	M5	5	VC..0702..	
SVVCN 1010 H11 U IC	■		10	10	100	21	13.2	M5	M5	5	VC..1103..	
SVVCN 1212 H07 U IC	■		12	12	100	20	15.5	M5	M5	6	VC..0702..	
SVVCN 1212 H11 U IC	■		12	12	100	21	15.2	M5	M5	6	VC..1103..	
SVVCN 1616 K11 U IC	■		16	16	125	21	19.2	M5	G <sup>1</sup> / <sub>8</sub> "	8	VC..1103..	
SVVCN 2020 K11 U IC	■		20	20	125	21	23.2	M5	G <sup>1</sup> / <sub>8</sub> "	10	VC..1103..	
SVVCN 2020 K16 U IC	■		20	20	125	27	24.2	M5	G <sup>1</sup> / <sub>8</sub> "	10	VC..1604..	

SVVCN ... U IC (72.5°) INCH

Order designation			Dimensions								Inserts	
L		R	h	b	l <sub>1</sub>	z <sup>1</sup>	x <sup>1</sup>	c	d	f	□ 259...	

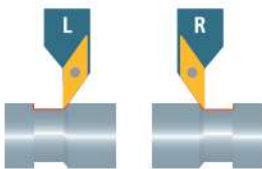
### PREMIUM-LINE

SVVCN 3/8" H07 U IC	■		9.525	9.525	100	20	13	M5	M5	4.76	VC..0702..	
SVVCN 3/8" H11 U IC	■		9.525	9.525	100	21	12.7	M5	M5	4.76	VC..1103..	
SVVCN 1/2" H07 U IC	■		12.7	12.7	100	20	16.2	M5	M5	6.35	VC..0702..	
SVVCN 1/2" H11 U IC	■		12.7	12.7	100	21	15.9	M5	M5	6.35	VC..1103..	
SVVCN 5/8" K11 U IC	■		15.875	15.875	125	21	19.1	M5	G <sup>1</sup> / <sub>8</sub> "	7.94	VC..1103..	
SVVCN 3/4" K11 U IC	■		19.05	19.05	125	21	22.3	M5	G <sup>1</sup> / <sub>8</sub> "	9.52	VC..1103..	
SVVCN 3/4" K16 U IC	■		19.05	19.05	125	27	23.3	M5	G <sup>1</sup> / <sub>8</sub> "	9.52	VC..1604..	

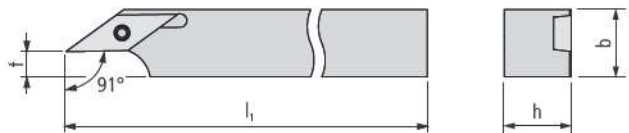
**Scope of delivery:** Holder without coolant connector

Coolant system ..... □ 619...

Legend ..... □ 8...



SVXC... U (91°)



Order designation		Dimensions								Inserts
L	R	h	b	l <sub>1</sub>		f				□ 259...

**STANDARD-LINE**

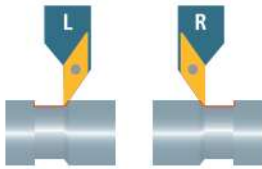
SVXCL 0808 H07 U	■	SVXCR 0808 H07 U	■	8	8	100		2.5		VC..0702..
SVXCL 1010 F11 U	■	SVXCR 1010 F11 U	■	10	10	80		2.5		VC..1103..
SVXCL 1010 H07 U	■	SVXCR 1010 H07 U	■	10	10	100		4.5		VC..0702..
SVXCL 1010 H11 U	■	SVXCR 1010 H11 U	■	10	10	100		2.5		VC..1103..
SVXCL 1212 H07 U	■	SVXCR 1212 H07 U	■	12	12	100		6.5		VC..0702..
SVXCL 1212 H11 U	■	SVXCR 1212 H11 U	■	12	12	100		4.5		VC..1103..
SVXCL 1616 K11 U	■	SVXCR 1616 K11 U	■	16	16	125		8.5		VC..1103..
SVXCL 2020 K16 U	■	SVXCR 2020 K16 U	■	20	20	125		8.5		VC..1604..

SVXC... U (91°) INCH

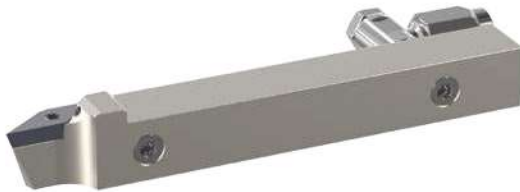
Order designation		Dimensions								Inserts
L	R	h	b	l <sub>1</sub>		f				□ 259...

**STANDARD-LINE**

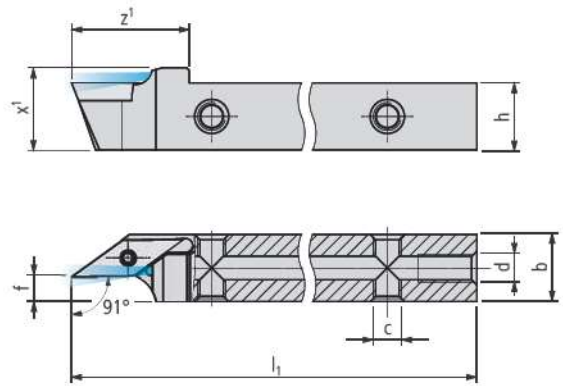
SVXCL 3/8" F11 U	■	SVXCR 3/8" F11 U	■	9.525	9.525	80		2		VC..1103..
SVXCL 3/8" H07 U	■	SVXCR 3/8" H07 U	■	9.525	9.525	100		4		VC..0702..
SVXCL 3/8" H11 U	■	SVXCR 3/8" H11 U	■	9.525	9.525	100		2		VC..1103..
SVXCL 1/2" H07 U	■	SVXCR 1/2" H07 U	■	12.7	12.7	100		7.2		VC..0702..
SVXCL 1/2" H11 U	■	SVXCR 1/2" H11 U	■	12.7	12.7	100		5.2		VC..1103..
SVXCL 5/8" K11 U	■	SVXCR 5/8" K11 U	■	15.875	15.875	125		8.3		VC..1103..
SVXCL 3/4" K16 U	■	SVXCR 3/4" K16 U	■	19.05	19.05	125		7.5		VC..1604..




With internal cooling



SVXC... U IC (91°)




Order designation		Dimensions								Inserts
L	R	h	b	l <sub>1</sub>	z <sup>1</sup>	x <sup>1</sup>	c	d	f	 259...

PREMIUM-LINE

SVXCL 0808 H07 U IC	■	SVXCR 0808 H07 U IC	■	8	8	100	18	11.5	M5	M5	2.5	VC..0702..
SVXCL 1010 F11 U IC	■	SVXCR 1010 F11 U IC	■	10	10	80	21	12.7	M5	M5	3	VC..1103..
SVXCL 1010 H07 U IC	■	SVXCR 1010 H07 U IC	■	10	10	100	18	13.5	M5	M5	4.5	VC..0702..
SVXCL 1010 H11 U IC	■	SVXCR 1010 H11 U IC	■	10	10	100	21	12.7	M5	M5	3	VC..1103..
SVXCL 1212 H07 U IC	■	SVXCR 1212 H07 U IC	■	12	12	100	18	15.5	M5	M5	6.5	VC..0702..
SVXCL 1212 H11 U IC	■	SVXCR 1212 H11 U IC	■	12	12	100	21	14.7	M5	M5	5	VC..1103..
SVXCL 1616 K11 U IC	■	SVXCR 1616 K11 U IC	■	16	16	125	21	18.7	M5	G½"	9	VC..1103..
SVXCL 2020 K16 U IC	■	SVXCR 2020 K16 U IC	■	20	20	125	27	22	M5	G½"	9	VC..1604..

SVXC... U IC (91°) INCH

Order designation		Dimensions							Inserts	
L	R	h	b	l <sub>1</sub>	z <sup>1</sup>	x <sup>1</sup>	c	d	f	 259...

PREMIUM-LINE

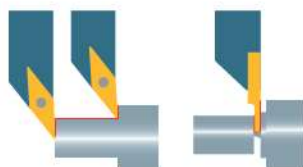
SVXCL 3/8" F11 U IC	■	SVXCR 3/8" F11 U IC	■	9.525	9.525	80	21	12.2	M5	M5	2	VC..1103..
SVXCL 3/8" H07 U IC	■	SVXCR 3/8" H07 U IC	■	9.525	9.525	100	18	13	M5	M5	4.02	VC..0702..
SVXCL 3/8" H11 U IC	■	SVXCR 3/8" H11 U IC	■	9.525	9.525	100	21	12.2	M5	M5	2	VC..1103..
SVXCL 1/2" H07 U IC	■	SVXCR 1/2" H07 U IC	■	12.7	12.7	100	18	16.2	M5	M5	7.19	VC..0702..
SVXCL 1/2" H11 U IC	■	SVXCR 1/2" H11 U IC	■	12.7	12.7	100	21	15.4	M5	M5	5	VC..1103..
SVXCL 5/8" K11 U IC	■	SVXCR 5/8" K11 U IC	■	15.875	15.875	125	21	18.6	M5	G½"	8	VC..1103..
SVXCL 3/4" K16 U IC	■	SVXCR 3/4" K16 U IC	■	19.05	19.05	125	27	22	M5	G½"	8	VC..1604..

Scope of delivery: Holder without coolant connector

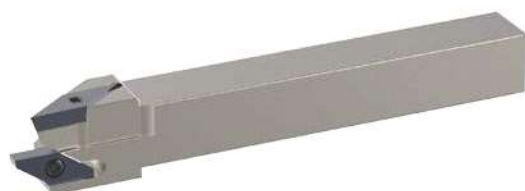
Coolant system ..... □ 619...

Legend ..... □ 8...

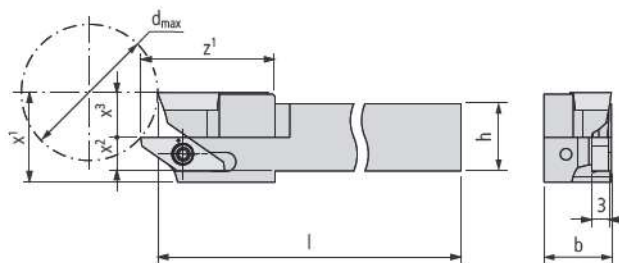




"TWIN" version



SVJC. (93°)/1600... TWIN



Order designation



Dimensions

Inserts

h b l z<sup>1</sup> x<sup>1</sup> x<sup>2</sup> x<sup>3</sup> d<sub>max</sub> □ 259... □ 49...

## STANDARD-LINE

SVJCR/1600R-0810 H07 Twin	■	8	10	100	24	16	4	8	24	VC..0702..	16...
SVJCR/1600R-1010 H07 Twin	■	10	10	100	24	16	5	8	24	VC..0702..	16...
SVJCR/1600R-1212 H07 Twin	■	12	12	100	24	16	6	8	24	VC..0702..	16...
SVJCR/1600R-0810 H11 Twin	■	8	10	100	24	16	4	8	24	VC..1103..	16...
SVJCR/1600R-1010 H11 Twin	■	10	10	100	24	16	5	8	24	VC..1103..	16...
SVJCR/1600R-1212 H11 Twin	■	12	12	100	24	16	6	8	24	VC..1103..	16...
SVJCR/1600R-1616 K11 Twin	■	16	16	125	24	20	8	10	36	VC..1103..	16...
SVJCR/1600R-2020 K11 Twin	■	20	20	125	24	24	8	14	68	VC..1103..	16...

SVJC. (93°)/1600... TWIN INCH

Order designation



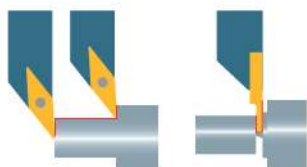
Dimensions

Inserts

h b l z<sup>1</sup> x<sup>1</sup> x<sup>2</sup> x<sup>3</sup> d<sub>max</sub> □ 259... □ 49...

## STANDARD-LINE

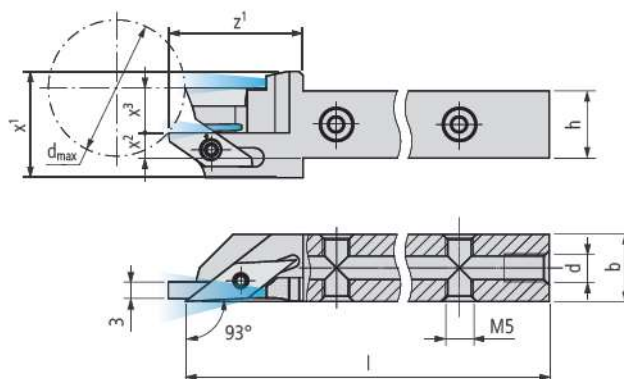
SVJCR/1600R-3/8" H07 Twin	■	9.525	9.525	100	24	16	4.76	8	24	VC..0702..	16...
SVJCR/1600R-1/2" H07 Twin	■	12.7	12.7	100	24	16	6.35	8	24	VC..0702..	16...
SVJCR/1600R-3/8" H11 Twin	■	9.525	9.525	100	24	16	4.76	8	24	VC..1103..	16...
SVJCR/1600R-1/2" H11 Twin	■	12.7	12.7	100	24	16	6.35	8	24	VC..1103..	16...
SVJCR/1600R-5/8" K11 Twin	■	15.875	15.875	125	24	20	7.94	10	36	VC..1103..	16...
SVJCR/1600R-3/4" K11 Twin	■	19.05	19.05	125	24	24	7.53	14	68	VC..1103..	16...



"TWIN" version with internal cooling



SVJC. (93°)/1600... TWIN IC



Order designation	Dimensions										Inserts	
	h	b	l	z <sup>1</sup>	x <sup>1</sup>	x <sup>2</sup>	x <sup>3</sup>	d	d <sub>max</sub>		□ 259...	□ 49...

### PREMIUM-LINE

	SVJCR/1600R-0810 H07 Twin IC	■	8	10	100	24	19	2.5	8	M5	24	VC..0702..	16...
	SVJCR/1600R-1010 H07 Twin IC	■	10	10	100	24	19	3.5	8	M5	24	VC..0702..	16...
	SVJCR/1600R-1212 H07 Twin IC	■	12	12	100	24	19	4.5	8	M5	24	VC..0702..	16...
	SVJCR/1600R-0810 H11 Twin IC	■	8	10	100	24	19	2.5	8	M5	24	VC..1103..	16...
	SVJCR/1600R-1010 H11 Twin IC	■	10	10	100	24	19	3.5	8	M5	24	VC..1103..	16...
	SVJCR/1600R-1212 H11 Twin IC	■	12	12	100	24	19	4.5	8	M5	24	VC..1103..	16...
	SVJCR/1600R-1616 K11 Twin IC	■	16	16	125	24	23	6.5	10	G½"	36	VC..1103..	16...
	SVJCR/1600R-2020 K11 Twin IC	■	20	20	125	24	27	6.5	14	G½"	68	VC..1103..	16...

SVJC. (93°)/1600... TWIN IC INCH

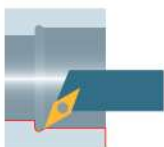
Order designation	Dimensions										Inserts	
	h	b	l	z <sup>1</sup>	x <sup>1</sup>	x <sup>2</sup>	x <sup>3</sup>	d	d <sub>max</sub>		□ 259...	□ 49...

### PREMIUM-LINE

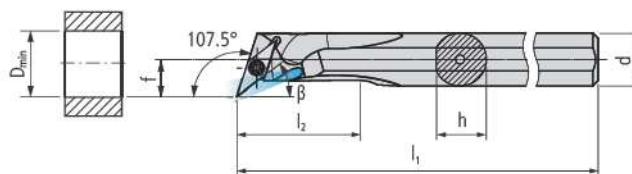
	SVJCR/1600R-3/8" H07 Twin IC	■	9.525	9.525	100	24	19	3.26	8	M5	24	VC..0702..	16...
	SVJCR/1600R-1/2" H07 Twin IC	■	12.7	12.7	100	24	19	4.85	8	M5	24	VC..0702..	16...
	SVJCR/1600R-3/8" H11 Twin IC	■	9.525	9.525	100	24	19	3.26	8	M5	24	VC..1103..	16...
	SVJCR/1600R-1/2" H11 Twin IC	■	12.7	12.7	100	24	19	4.85	8	M5	24	VC..1103..	16...
	SVJCR/1600R-5/8" K11 Twin IC	■	15.875	15.875	125	24	23	6.44	10	G½"	36	VC..1103..	16...
	SVJCR/1600R-3/4" K11 Twin IC	■	19.05	19.05	125	24	27	6.03	14	G½"	68	VC..1103..	16...

**Scope of delivery:** Holder without coolant connector

Coolant system ..... □ 619...



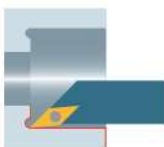
A... SVQC... (107.5°)



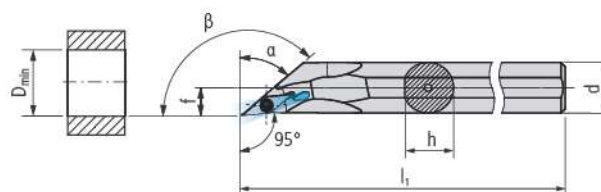
Order designation		Dimensions							Inserts	
L	R	d	h	l <sub>1</sub>	l <sub>2</sub>	f	D <sub>min</sub>	β	□ 259...	

**STANDARD-LINE**

A10 H SVQCL 07	■	A10 H SVQCR 07	■	10	9.5	100	23	8	16	37.5°	VC..0702..
A12 K SVQCL 07	■	A12 K SVQCR 07	■	12	11.5	125	25	9	17	37.5°	VC..0702..
A16 M SVQCL 07	■	A16 M SVQCR 07	■	16	15	150	29	11	20	37.5°	VC..0702..
A16M SVQCL 11	■	A16M SVQCR 11	■	16	15	150	29	11	20	37.5°	VC..1103..
A20Q SVQCL 11	■	A20Q SVQCR 11	■	20	18.5	180	32	13	25	37.5°	VC..1103..



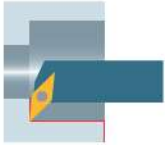
A... SVOC... (95°)



Order designation		Dimensions								Inserts	
L	R	d	h	l <sub>1</sub>	f	D <sub>min</sub>	α	β		□ 259...	

**STANDARD-LINE**

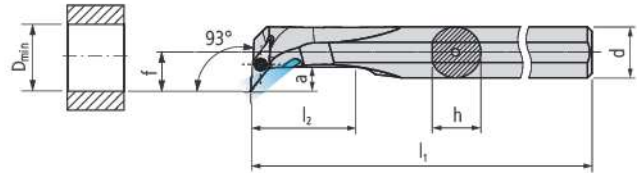
A10 H SVOCL 07	■	A10 H SVOCR 07	■	10	9.5	100		5.5	11	50°	140°	VC..07..
A12 K SVOCL 07	■	A12 K SVOCR 07	■	12	11.5	125		6.5	13	50°	140°	VC..07..
A12K SVOCL 11	■	A12K SVOCR 11	■	12	11.5	125		7	17	50°	140°	VC..11..
A16 M SVOCL 07	■	A16 M SVOCR 07	■	16	15.5	150		8.5	17	50°	140°	VC..07..
A16M SVOCL 11	■	A16M SVOCR 11	■	16	15.5	150		9	20	50°	140°	VC..11..



300



A... SVUC... (93°)



Order designation		Dimensions							Inserts	
L	R	d	h	l <sub>1</sub>	l <sub>2</sub>	f	D <sub>min</sub>	a	□ 259...	

STANDARD-LINE


A10 H SVUCL 07	■	A10 H SVUCR 07	■	10	9.5	100	23	8.5	13.5	5	VC..0702..
A12 K SVUCL 07	■	A12 K SVUCR 07	■	12	11.5	125	25	9	17	5.5	VC..0702..
A16 M SVUCL 07	■	A16 M SVUCR 07	■	16	15.5	150	36	11	20	5.5	VC..0702..
A16 M SVUCL 11	■	A16 M SVUCR 11	■	16	15.5	150	36	13	21	8	VC..1103..
A20 Q SVUCL 11	■	A20 Q SVUCR 11	■	20	19.5	180	40	14	24	8	VC..1103..



For holders (SV...) OD turning

Illustration	Description	Dimensions	Order designation		Holder
	TORX screw	M2 × 5.5 T06	MSP 20055 T06	■	SV... 07
		M2.5 × 6 T08	MSP 25060 T08	■	SV... 11
		M3.5 × 11 T15	MSP 35110 T15	■	SV... 16

For holders (... SV...) ID turning

Illustration	Description	Dimensions	Order designation		Holder
	TORX screw	M2 × 5.5 T06	MSP 20055 T06	■	A... SV... 07
		M2.5 × 6 T08	MSP 25060 T08	■	A... SV... 11

TORX screwdriver  651...



	Aluminum			Brass			Hard materials		
Hardness value (HB)/(HRC)	60–130 HB			–			45–70 HRC		
Category	VII			VIII			X		
Machining method	▼	▼▼	▼▼▼	▼	▼▼	▼▼▼	▼	▼▼	▼▼▼
Cutting speeds	v <sub>c</sub> (m/min)								
Cutting material carbide									
UHM 10	100–1500	120–2000	160–2500	80–300	100–400	120–500	–	–	–
UHM 10 HX	140–2500	160–3000	200–3000	100–450	100–600	100–750	–	–	–
UHM 10 TX+	–	–	–	–	–	–	15–30	15–40	20–60
UHM 10 MZ	–	–	–	–	–	–	–	–	–
UHM 20 HPX	–	–	–	–	–	–	–	–	–
UHM 20 TX+	–	–	–	–	–	–	–	–	–
UHM 20 MZ	–	–	–	–	–	–	–	–	–
UHM 30	50–1000	60–1200	80–1500	40–100	50–140	50–160	–	–	–
UHM 30 HX	70–1500	80–2000	100–3000	50–150	50–200	50–250	–	–	–
UHM 30 TX+							–	–	–
UHM 30 MZ	–	–	–	–	–	–	–	–	–
UHM 30 SX	60–1200	80–2000	100–3000	50–120	50–180	50–200	–	–	–
Cutting material cermet									
UCM 10	–	–	–	–	–	–	–	–	–
UCM 10 HX	–	–	–	–	–	–	–	–	–
Cutting material diamond									
UCVD 08	–	300–2000	300–3000	–	250–1000	300–1500	–	–	–
UPCD 15	–	300–2000	300–3000	–	250–1000	300–1500	–	–	–
UPCD 20	–	300–2000	300–3000	–	250–1000	300–1500	–	–	–

Feed (f) and depths of cut ( $a_p$ ) [178...](#)