

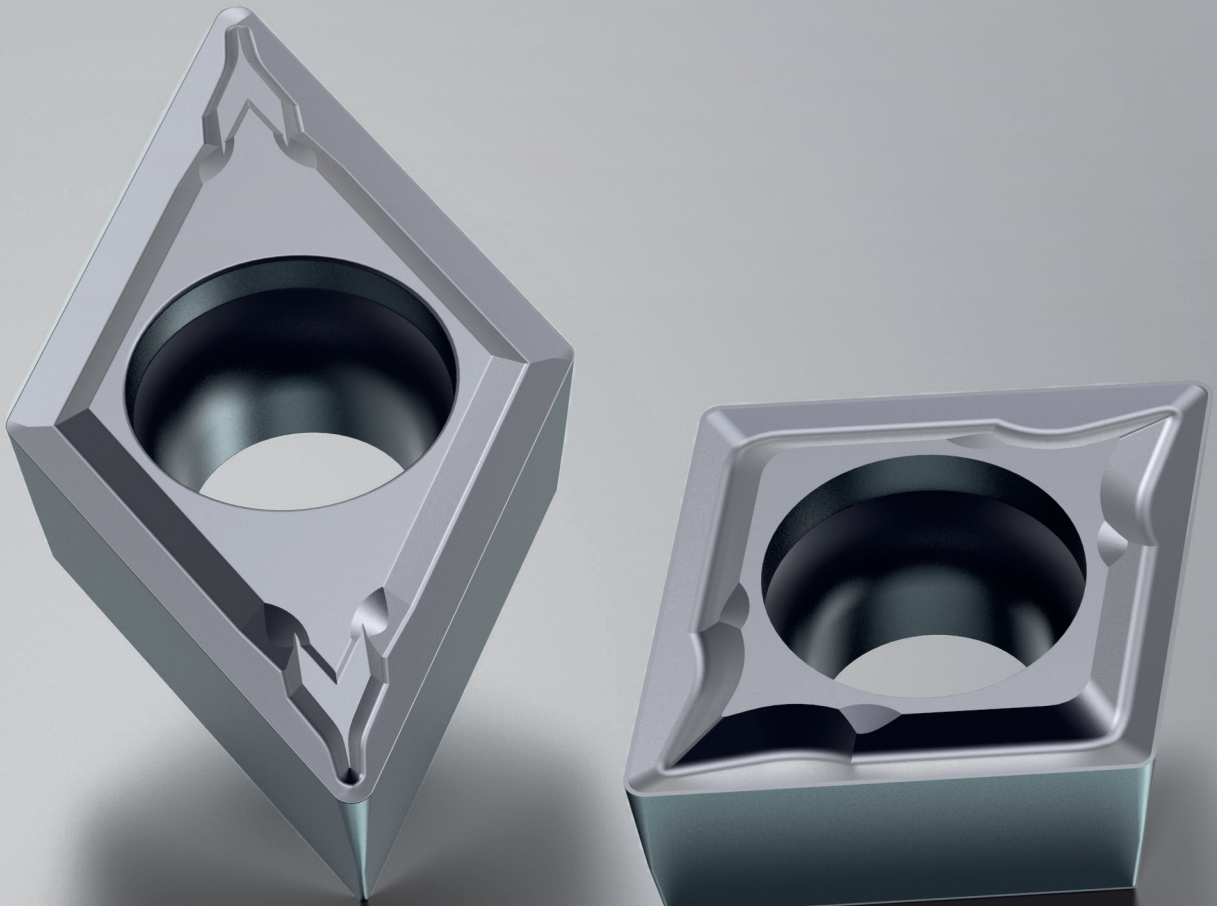
UTILIS  
**multidec**<sup>®</sup>  
swiss type tools

ENGLISH 

**multidec**<sup>®</sup>-ISO

HIGH-PERFORMANCE INSERTS

**INNOVATION**



future since **1915**

**UTILIS**<sup>®</sup>  
Tooling for High Technology

**New UTILIS M-class ISO inserts**

New types of carbide for high-performance machining of difficult types of steel and exotic materials.

UTILIS grade	ISO grade	Coating	Application
HMP710	P/M/S 05-10	PVD	Hard grade for outstanding wear resistance under simple conditions.
HMP720	P/M/S 15-20	PVD	Medium-hard grade for normal to difficult machining conditions.

New Cermet grades for high-quality machining of steel.

UTILIS grade	ISO grade	Coating	Application
CMB-15	P10–20	without	Grade for wear resistance when finishing at high cutting speed
CMP120	P15–25	PVD	Grade for normal machining conditions at medium to high cutting speed.

**Legend**

**Dimensions**

All dimensions are in millimeter (mm).

**Recommended usage**

- Preferred application
- Possible application
- Application not recommended

**Availability**

- Standard articles
- Standard articles, new in this catalogue

**Symbols for tool attributes**



**Tolerance class**  
Example: Class M (sintered)



**Cutting edge**  
E rounded cutting edge



**Geometry**  
Example: 12°



Example: 18°  
with protective chamfer

**Categorization of materials**

The information on using multidec® tools refers to certain materials. The materials to be machined are categorized in the same color throughout the entire catalog:

<b>P</b>	Steel (non-alloyed, low alloyed and high alloyed)
<b>M</b>	Stainless steel
<b>S</b>	Titanium and heat-resistant alloys
<b>N</b>	Non-ferrous metals (gold, aluminum and brass)
<b>H</b>	Hard materials

**Order designation**





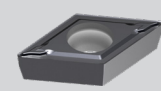
To the designation of the selected type of product, the desired cutting material code must be added.

Order designation	Carbide	
	HMP710	HMP720
 CCMT 060202 EN -S12 ... CCMT 060204 EN -S12 ... CCMT 09T302 EN -S12 ... CCMT 09T304 EN -S12 ...	●	●
	●	●
	●	●
	—	—
	—	—

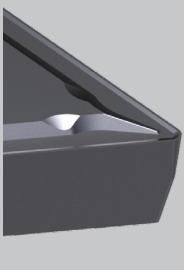



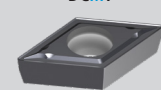
Example: CCMT 060202 EN -S12 HMP710

**Carbide inserts**

Good chip control during finishing and micro finishing of steel and stainless materials.  
Long tool life even at high cutting speeds.

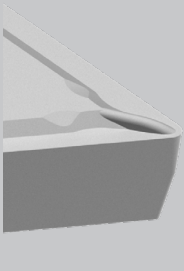



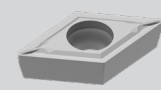
	Chip breaker	Corner radius	Machining method	Type		
	EN -S12	R (mm)	▼▼ – ▼▼▼			
		0.2	●		CCMT	4
		0.4	●			
		0.8	●			
		–	–			
		0.2	●		DCMT	8
		0.4	●			
		0.8	●			
		–	–			

Universally applicable. For roughing and for the medium machining application range in steel and stainless steel.  
Very stable cutting edge.

	Chip breaker	Corner radius	Machining method	Type		
	EN -M18R	R (mm)	▼ – ▼▼			
		0.2	●		CCMT	5
		0.4	○			
		0.8	○			
		–	–			
		0.2	●		DCMT	9
		0.4	○			
		0.8	○			
		–	–			

**Cermet inserts**

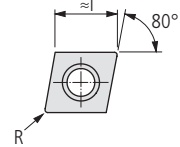
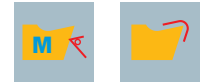
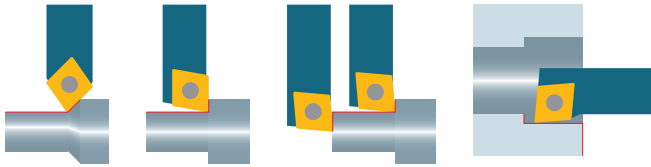
Cermet grade for the medium machining application range in steel and stainless steel.  
Good chip control and long tool life with high cutting speeds.  
Good surface quality.

	Chip breaker	Corner radius	Machining method	Type		
	EN -S07	R (mm)	▼▼ – ▼▼▼			
		0.2	●		CCMT	6
		0.4	○			
		0.8	–			
		–	–			
		0.2	●		DCMT	10
		0.4	○			
		0.8	–			
		–	–			

Holders for these inserts and other inserts can be found in our multidec® general catalogue 2022/23.  
See further information on page 7.



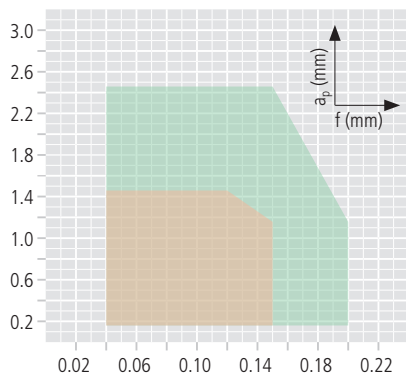




CCMT ... EN -M18R

Order designation	Carbide		Dimensions						Holders
	●	●	≈l	R	0.1				
	○	○							
	○	○							
	-	-							
	-	-							
			HMP710	HMP720					
<b>N</b>	CCMT 060202 EN -M18R ...	■	■	6	0.2	18°			SC...06...
	CCMT 060204 EN -M18R ...	■	■	6	0.4	18°			SC...06...
	CCMT 09T302 EN -M18R ...	■	■	9	0.2	18°			SC...09...
	CCMT 09T304 EN -M18R ...	■	■	9	0.4	18°			SC...09...
	CCMT 09T308 EN -M18R ...	■	■	9	0.8	18°			SC...09...

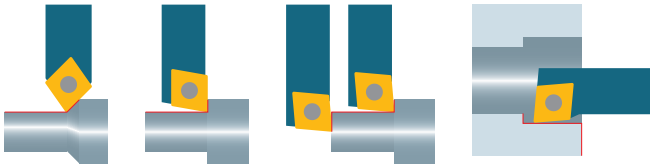
Application range



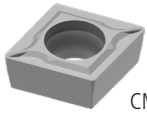
Optimal chip breaking

	Cutting speeds $v_c$ (m/min)
<b>P</b>	60–180
<b>M</b>	50–120
<b>S</b>	20–45
<b>N</b>	–
<b>H</b>	–

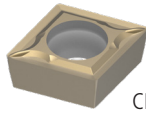
■ CCMT 06  
■ CCMT 09



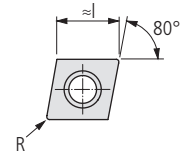
6



CMB-15



CMP120

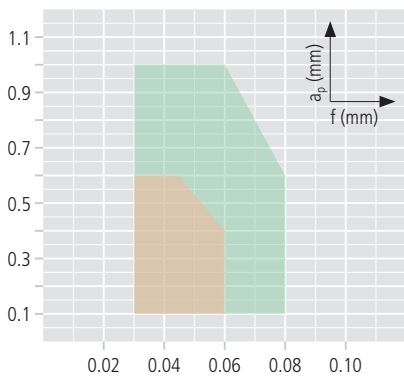


CCMT ... EN -S07

Order designation	Cermet		Dimensions						Holders <span>☰ 7</span>
	●	○	≈l	R					
	●	○							
	○	●							
	-	-							
	-	-							
	-	-							
			CMB-15	CMP120					
<b>N</b>	CCMT 060202 EN -S07 ...	■	■	6	0.2	7°			SC...06...
	CCMT 060204 EN -S07 ...	■	■	6	0.4	7°			SC...06...
	CCMT 09T302 EN -S07 ...	■	■	9	0.2	7°			SC...09...
	CCMT 09T304 EN -S07 ...	■	■	9	0.4	7°			SC...09...
	CCMT 09T308 EN -S07 ...	■	■	9	0.8	7°			SC...09...

UTILIS  
**multidec**  
swiss type tools

Application range



Optimal chip breaking

■ CCMT 06  
■ CCMT 09

	Cutting speeds $v_c$ (m/min)
<b>P</b>	70–250
<b>M</b>	70–230
<b>S</b>	–
<b>N</b>	–
<b>H</b>	–

ISO type CC... (80°) in the multidec® general catalogue 2022/23



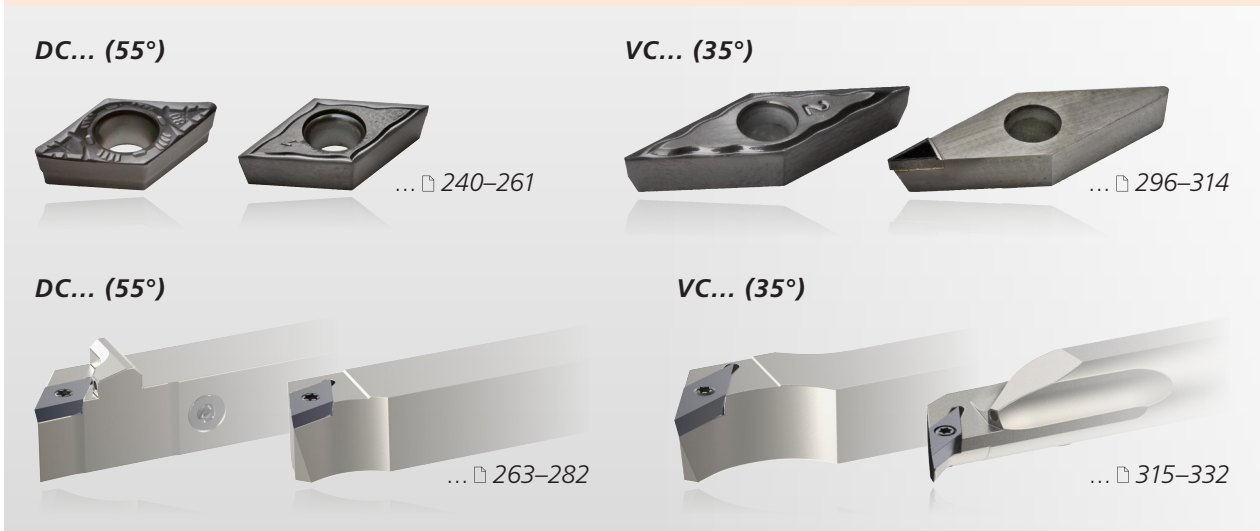
... □ 218–232

... □ 233–237



Article 300362

ISO type DC... (55°) and type VC... (35°) in the multidec® general catalogue 2022/23



DC... (55°)

VC... (35°)

... □ 240–261

... □ 296–314

DC... (55°)

VC... (35°)

... □ 263–282

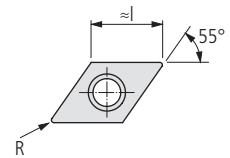
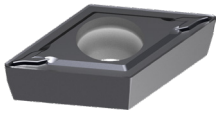
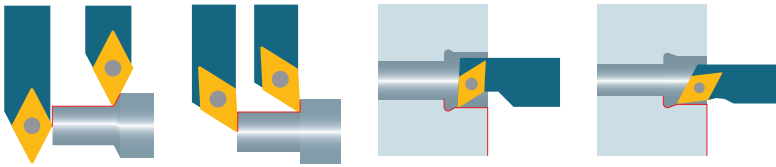
... □ 315–332

multidec®-TOP, type VP... (35°) in the multidec® general catalogue 2022/23



... □ 340–342

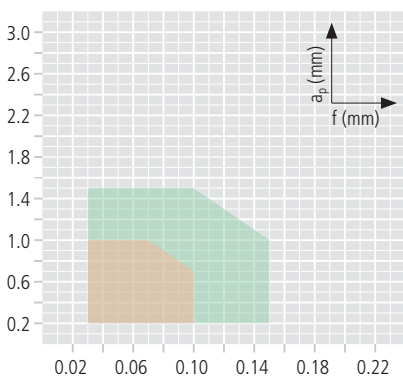
... □ 343–362



DCMT ... EN -S12

Order designation	Carbide		Dimensions						HOLDERS
	HMP710	HMP720	≈l	R					11
<b>N</b> DCMT 070202 EN -S12 ...	■	■	7	0.2	12°				SD...07...
DCMT 070204 EN -S12 ...	■	■	7	0.4	12°				SD...07...
DCMT 11T302 EN -S12 ...	■	■	11	0.2	12°				SD...11...
DCMT 11T304 EN -S12 ...	■	■	11	0.4	12°				SD...11...
DCMT 11T308 EN -S12 ...	■	■	11	0.8	12°				SD...11...

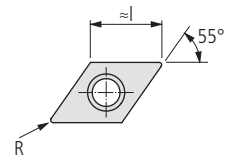
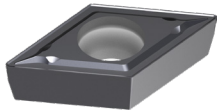
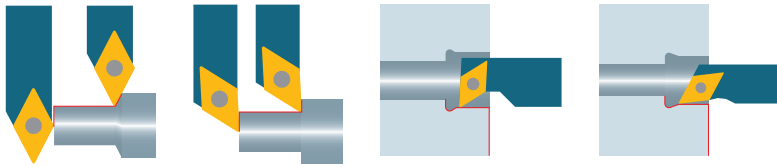
Application range



Optimal chip breaking

■ DCMT 07  
■ DCMT 11

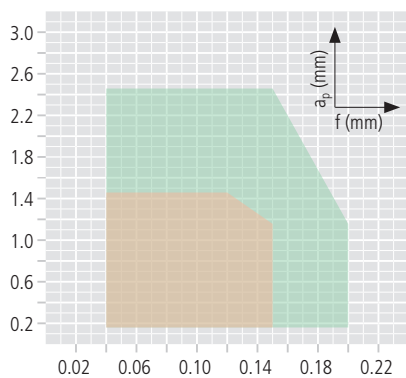
	Cutting speeds $v_c$ (m/min)
<b>P</b>	60–180
<b>M</b>	50–120
<b>S</b>	20–45
<b>N</b>	–
<b>H</b>	–



DCMT ... EN -M18R

Order designation	Carbide		Dimensions					Holders <span>11</span>
	●	●	≈l	R				
	○	○						
	○	○						
	-	-						
	-	-						
	HMP710	HMP720						
<b>N</b>	DCMT 070202 EN -M18R ...	■ ■	7	0.2	18°			SD...07...
	DCMT 070204 EN -M18R ...	■ ■	7	0.4	18°			SD...07...
	DCMT 11T302 EN -M18R ...	■ ■	11	0.2	18°			SD...11...
	DCMT 11T304 EN -M18R ...	■ ■	11	0.4	18°			SD...11...
	DCMT 11T308 EN -M18R ...	■ ■	11	0.8	18°			SD...11...

Application range



Optimal chip breaking

	Cutting speeds $v_c$ (m/min)
<b>P</b>	60–180
<b>M</b>	50–120
<b>S</b>	20–45
<b>N</b>	–
<b>H</b>	–





ISO type DC... (55°) in the multidec® general catalogue 2022/23

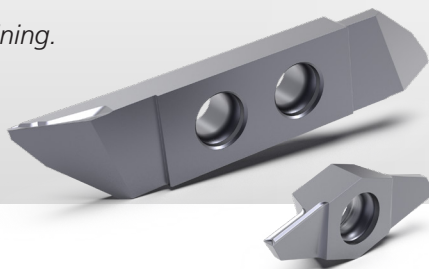


Article 300362

More multidec® products from the company UTILIS

multidec®-CUT – G-LINE inserts

The performance boost in machining.  
New technology for creation of  
any three-dimensional chip-  
breaker shapes.



Article 400870

multidec®-WHIRLING – The efficient way to make threads

multidec®-WHIRLING is the thread whirling  
tool system with multiple cutting edges;  
unlike the thread turning method,  
this enables the thread to be finished  
without burr in a single pass.



Article 300969



■ **Utilis AG, Precision Tools**

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