UTILIS
multidec®
swiss type tools

INNOVATION

multidec®-ISO

HIGH-PERFORMANCE INSERTS

future since 1915

UTILIS®
Tooling for High Technology
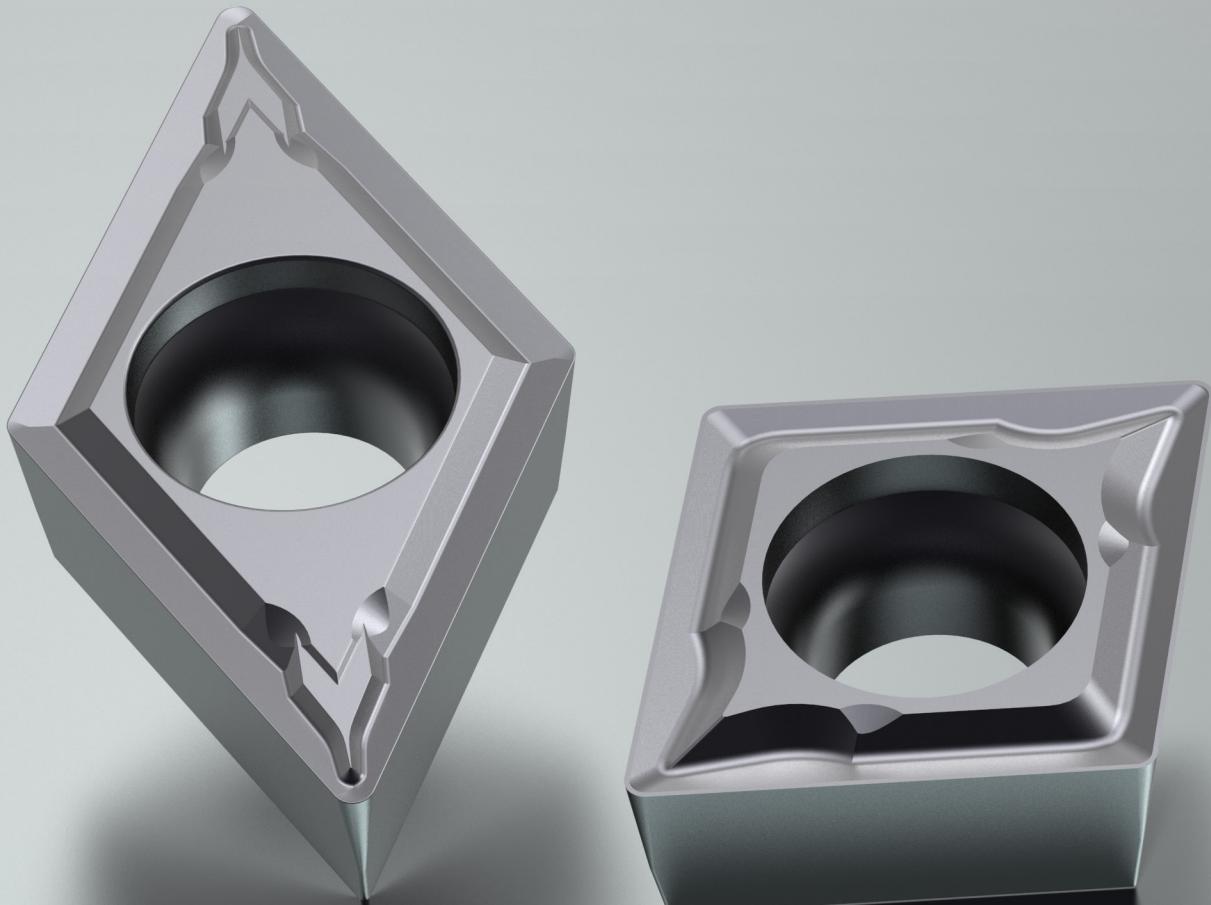
New UTILIS M-class ISO inserts

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

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

New Cermet grades for high-quality machining of steel.

UTILIS grade	ISO grade	Application
CMB-15	P10–20	Grade for wear resistance when finishing at high cutting speed
CMP120	P15–25	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:

P	Steel (non-alloyed, low alloyed and high alloyed)
M	Stainless steel
S	Titanium and heat-resistant alloys
N	Non-ferrous metals (gold, aluminum and brass)
H	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
	●	●
	●	●
	●	●
	–	–
	–	–
N CCMT 060202 EN -S12 …	■	■
CCMT 060204 EN -S12 …	■	■
CCMT 09T302 EN -S12 …	■	■
CCMT 09T304 EN -S12 …	■	■

Example: CCMT 060202 EN -S12 HMP710

Legend   2

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)	▼▼ – ▼▼▼	
	M	0.2	●	CCMT
		0.4	●	
		0.8	●	
		–	–	
		–	–	
	12°	0.2	●	DCMT
		0.4	●	
		0.8	●	
		–	–	
		–	–	

4
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)	▼ – ▼▼	
	M	0.2	●	CCMT
		0.4	○	
		0.8	○	
		–	–	
		–	–	
	0.1 / 18°	0.2	●	DCMT
		0.4	○	
		0.8	○	
		–	–	
		–	–	

5
9

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)	▼▼ – ▼▼▼	
	M	0.2	●	CCMT
		0.4	○	
		0.8	–	
		–	–	
		–	–	
	7°	0.2	●	DCMT
		0.4	○	
		0.8	–	
		–	–	
		–	–	

6
10

Holders for these inserts and other inserts can be found in our multidec® general catalogue 2022/23.

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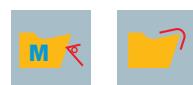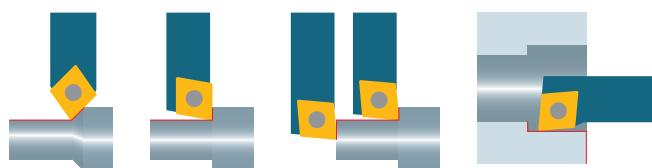
UTILIS multidec®
swiss type tools

CCMT ... EN -S12

Order designation	Carbide		Dimensions							Holders	7
	●	●									
	●	●									
	●	●									
	–	–									
	–	–									
	HMP710	HMP720	≈l	R							
N CCMT 060202 EN -S12 …	■	■	6	0.2	12°					SC…06…	
CCMT 060204 EN -S12 …	■	■	6	0.4	12°					SC…06…	
CCMT 09T302 EN -S12 …	■	■	9	0.2	12°					SC…09…	
CCMT 09T304 EN -S12 …	■	■	9	0.4	12°					SC…09…	
CCMT 09T308 EN -S12 …	■	■	9	0.8	12°					SC…09…	

80°
R
≈l

Application range   multidec®-ISO

a_p (mm)
f (mm)

3.0
2.6
2.2
1.8
1.4
1.0
0.6
0.2

0.02 0.06 0.10 0.14 0.18 0.22

Optimal chip breaking

■ CCMT 06
■ CCMT 09

	Cutting speeds v_c (m/min)
P	60–80
M	50–120
S	20–45
N	–
H	–

5

CCMT ... EN -M18R

≈l   80°

R

Order designation	Carbide		Dimensions							Holders	
	●	●									
	○	○									
	○	○									
	–	–									
	–	–	≈l	R	**0.1**						
	HMP710	HMP720									
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...	
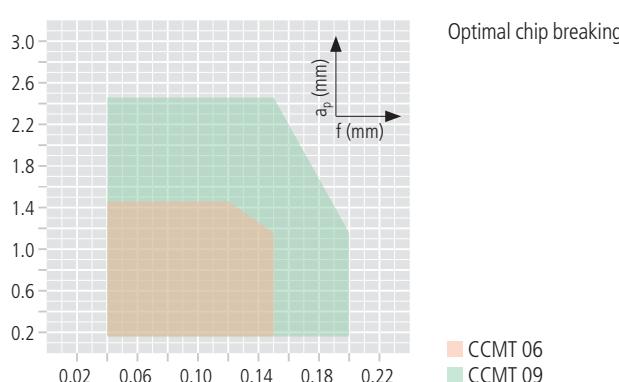
N

Application range   *multidec®-ISO*

Optimal chip breaking

a_p (mm)

f (mm)

■ CCMT 06
■ CCMT 09

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

6
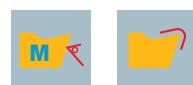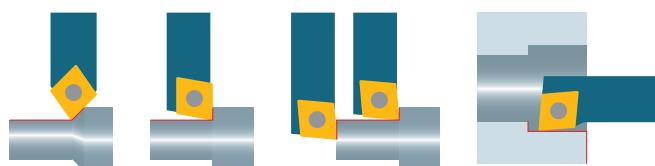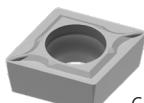
CMB-15　　CMP120

CCMT … EN -S07

≈l　80°

R
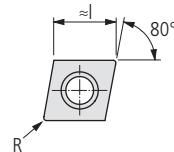
Order designation	Cermet		Dimensions						Holders	📄7
	●	●								
	○	○								
	–	–								
	–	–								
	–	–								
	CMB-15	CMP120	≈l	R						
N CCMT 060202 EN -S07 …	■	■	6	0.2	7°				SC…06…	
CCMT 060204 EN -S07 …	■	■	6	0.4	7°				SC…06…	
CCMT 09T302 EN -S07 …	■	■	9	0.2	7°				SC…09…	
CCMT 09T304 EN -S07 …	■	■	9	0.4	7°				SC…09…	
CCMT 09T308 EN -S07 …	■	■	9	0.8	7°				SC…09…	

Application range　　　　　　　　　　　　　　　　　　　　*multidec®-ISO*

Optimal chip breaking

a_p (mm)

f (mm)

■ CCMT 06
■ CCMT 09
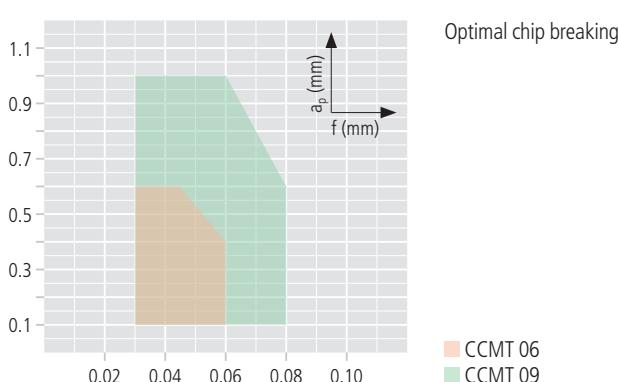
	Cutting speeds v_c (m/min)
P	70–250
M	70–230
S	–
N	–
H	–

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

*... 🗎 218–232*
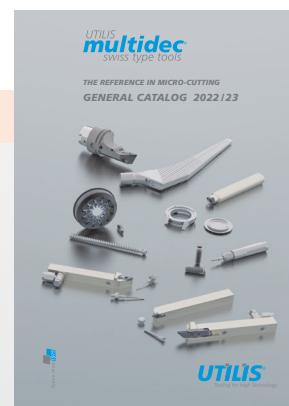
... 🗎 233–237

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

DC... (55°)

... 🗎 240–261

VC... (35°)

... 🗎 296–314

DC... (55°)

*... 🗎 263–282*

VC... (35°)

*... 🗎 315–332*

multidec®-TOP, type VP... (35°) in the multidec® general catalogue 2022/23
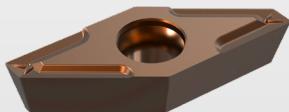
... 🗎 340–342
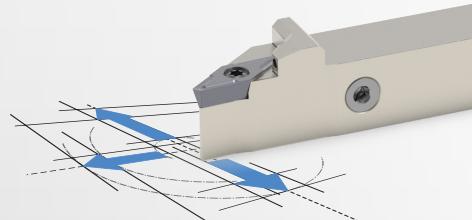
... 🗎 343–362

8

DCMT … EN -S12

55°

R

Order designation	Carbide		Dimensions							Holders	📄11
	● ● ● – –	● ● ● – –									
	HMP710	HMP720	≈l	R							
N 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…	
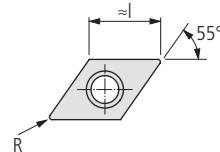
Optimal chip breaking

a_p (mm)

f (mm)

☐ DCMT 07
☐ DCMT 11

	Cutting speeds v_c (m/min)
P	60–80
M	50–120
S	20–45
N	–
H	–

Legend ………………………………………………… 📄 2

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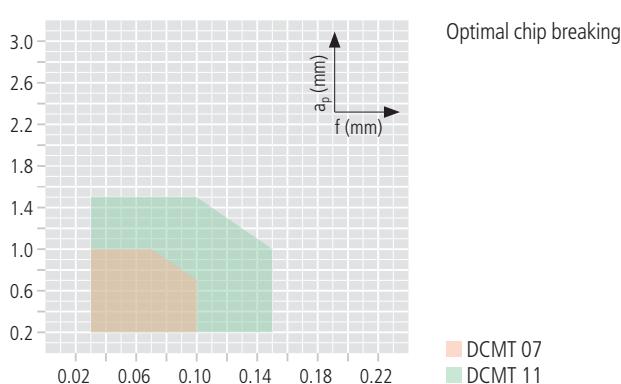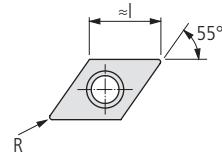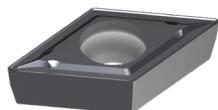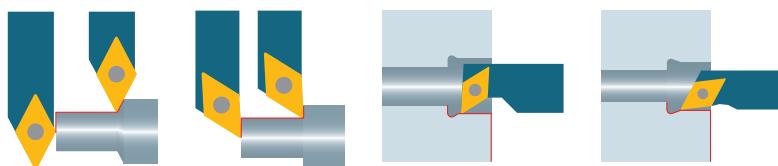
DCMT … EN -M18R

Order designation		Carbide		Dimensions							Holders	📄 11
		●	●									
		○	○									
		○	○									
		–	–									
		–	–	≈l	R	**0.1**						
		HMP710	HMP720									
N	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 | *multidec®-ISO*

Optimal chip breaking

a_p (mm)
f (mm)

■ DCMT 07
■ DCMT 11

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

10
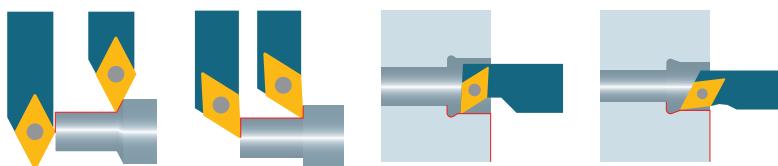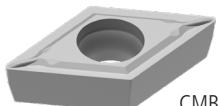
CMB-15   CMP120

DCMT … EN -S07

≈l   55°   R
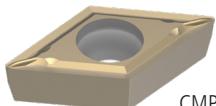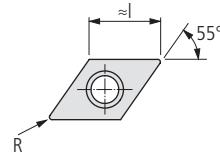
Order designation	Cermet		Dimensions							Holders	📄 11
	●	●									
	○	○									
	–	–									
	–	–									
	–	–	≈l	R							
	CMB-15	CMP120									
N DCMT 070202 EN -S07 …	■	■	7	0.2	7°					SD…07…	
DCMT 070204 EN -S07 …	■	■	7	0.4	7°					SD…07…	
DCMT 11T302 EN -S07 …	■	■	11	0.2	7°					SD…11…	
DCMT 11T304 EN -S07 …	■	■	11	0.4	7°					SD…11…	
DCMT 11T308 EN -S07 …	■	■	11	0.8	7°					SD…11…	

Application range

multidec®-ISO

Optimal chip breaking

a_p (mm)
f (mm)

■ DCMT 07
■ DCMT 11
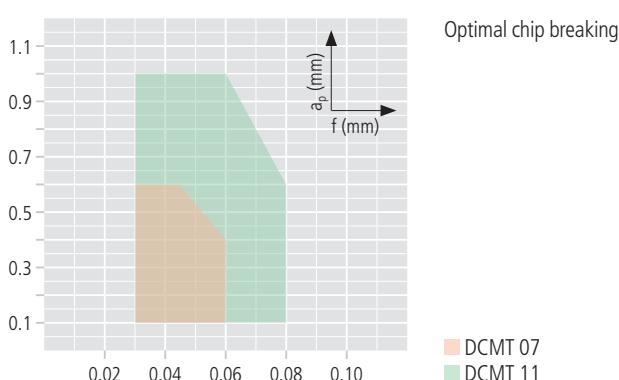
	Cutting speeds v_c (m/min)
P	70–250
M	70–230
S	–
N	–
H	–

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

... 🗎 240–261
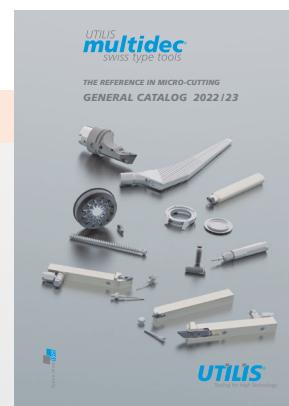
... 🗎 263–282

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.

INNOVATION

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

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Tooling for High Technology