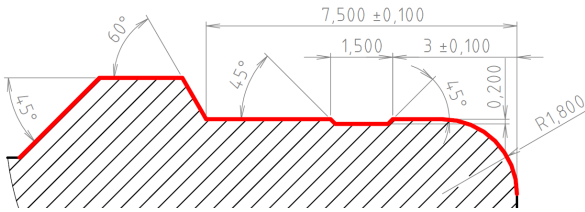
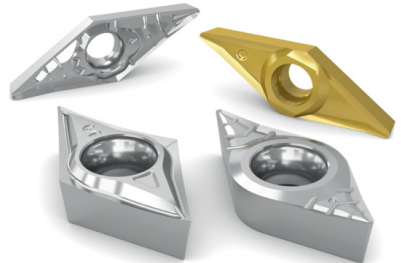
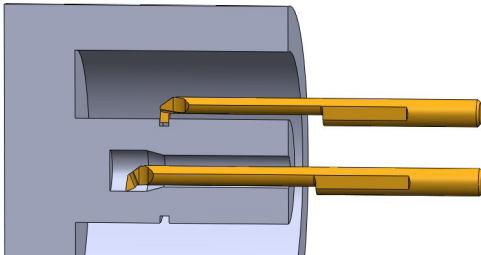


**CUSTOMIZED
TOOLS**

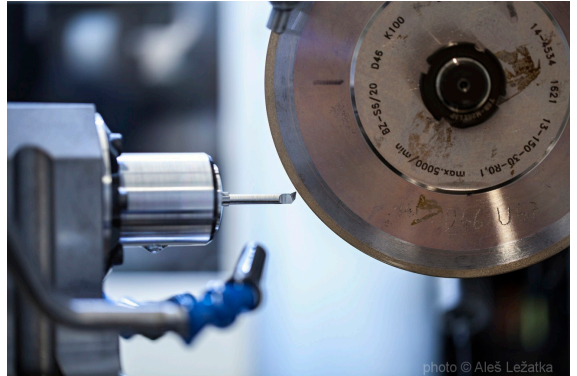


STANDARD TOOLS



TMC GROUPE CUTTING TOOLS :

- MORE THAN 30 YEARS OF EXPERIENCES WITH CUTTING TOOLS PRODUCTION
- CUTTING TOOLS MANUFACTURER IN CZECH REPUBLIC IN EUROPE



REASONS TO CHOOSE TMC TOOLS?

- PRECISION MANUFACTURING
- HIGHLY PROFESSIONAL TECHNICAL SUPPORT
- EUROPEAN QUALITY STANDARDS
- PROMPT PRODUCTION OF SMALL (5 PIECES) AS WELL AS LARGE SERIES OF SPECIAL TOOLS (100 +)

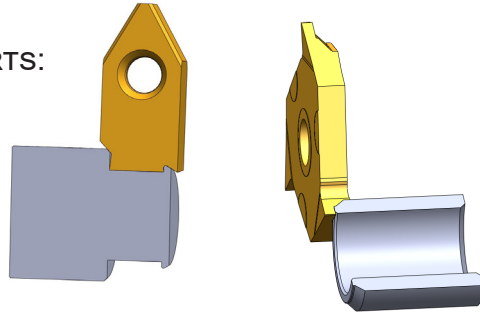


OUR TOOLS:

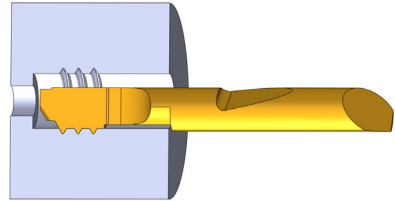
CUSTOMIZED TOOLS

PAGE 3 - 9

- SPECIAL GROOVING INSERTS:



- SPECIAL INTERNAL CUTTING TOOLS:



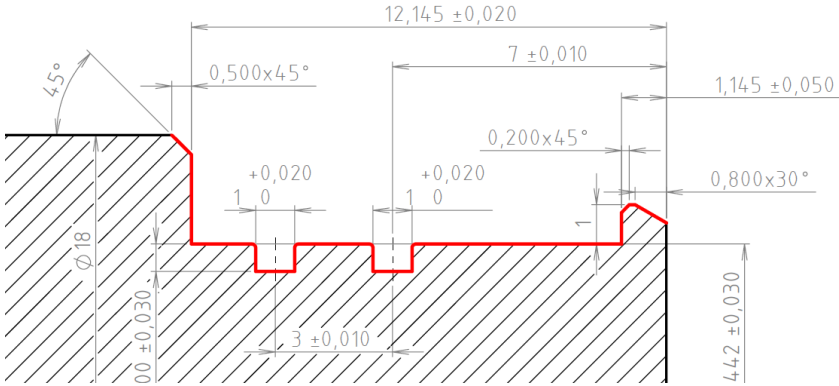
STANDARD TOOLS

PAGE 10 - 17

- MICRO CUTTING SYSTEM - MCS PAGE 11 - 13
- GROOVING, PARTING-OFF PAGE 14
- TOOLHOLDERS PAGE 14
- CLAMPING SYSTEMS PAGE 15
- THREADING PAGE 15
- MILLING PAGE 16
- TURNING PAGE 16 - 17

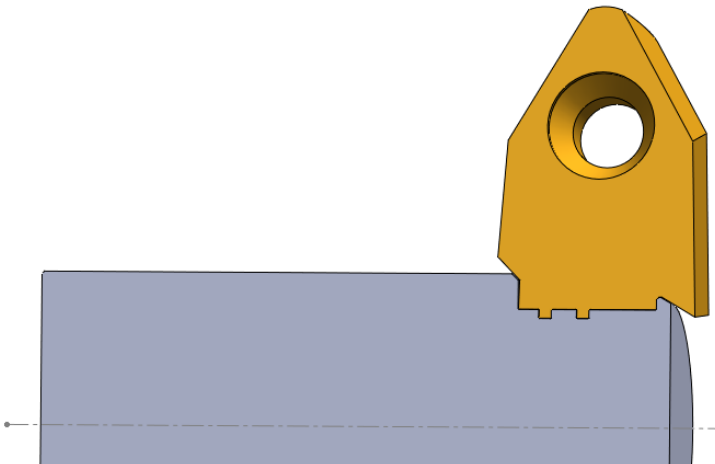
CUSTOMIZED CUTTING INSERTS

DO YOU MANUFACTURE HIGH VOLUMES OF ROTATION PARTS?



WE HAVE A SOLUTION FOR YOU THAT CAN SIGNIFICANTLY REDUCE YOUR PRODUCTION TIME AND COSTS.

TRY A CUSTOM GROOVING INSERT FROM US.



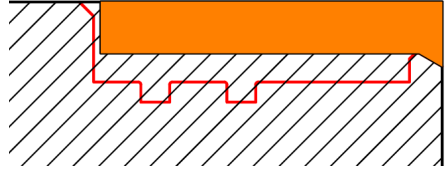
CUSTOMIZED VS STANDARD CUTTING TOOL

1. OPERATION

- PROFILE GROOVING

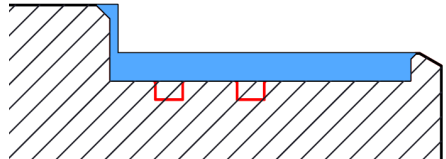
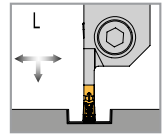
1. OPERATION

- TURNING



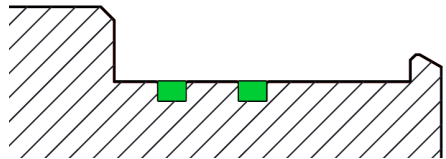
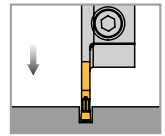
2. OPERATION

- GROOVING 1



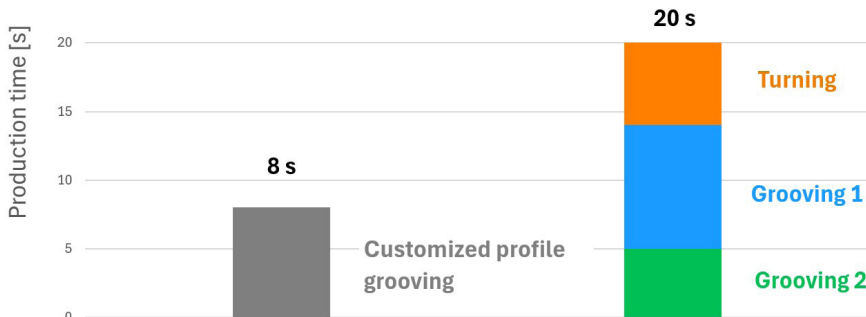
3. OPERATION

- GROOVING 2

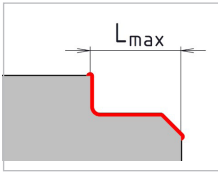


**+ MORE THAN 50%
TIME SAVINGS**

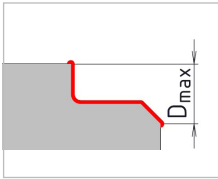
PART PRODUCTION TIME COMPARISON



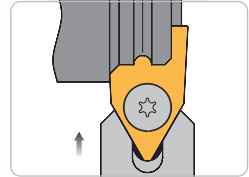
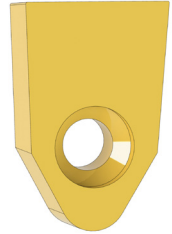
CONTOUR GROOVE - CG



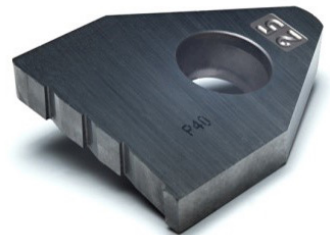
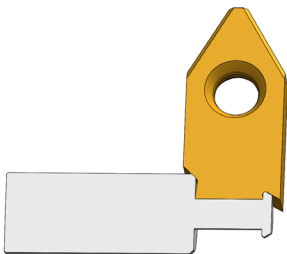
$L_{max} = 25 \text{ mm}$



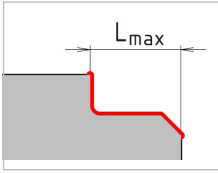
$D_{max} = 9,0 \text{ mm}$



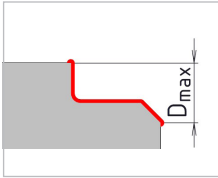
EXAMPLES OF OUR PRODUCTION:



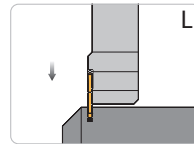
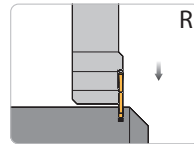
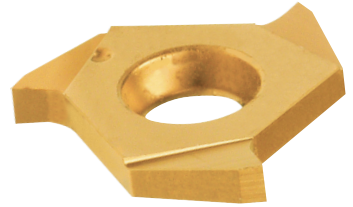
MULTI3 CUT - M3C



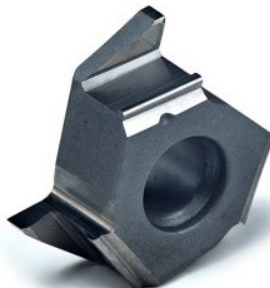
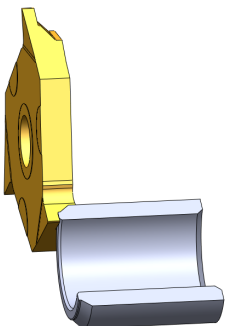
$L_{max} = 7,0 \text{ mm}$



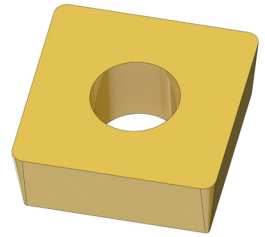
$D_{max} = 6,0 \text{ mm}$



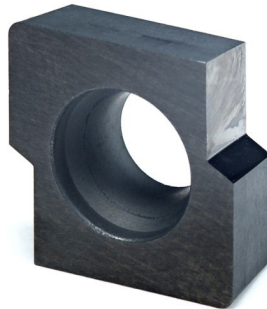
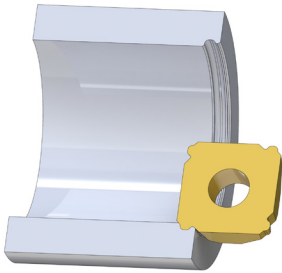
EXAMPLES OF OUR PRODUCTION:



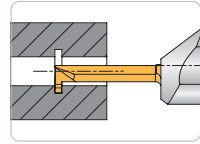
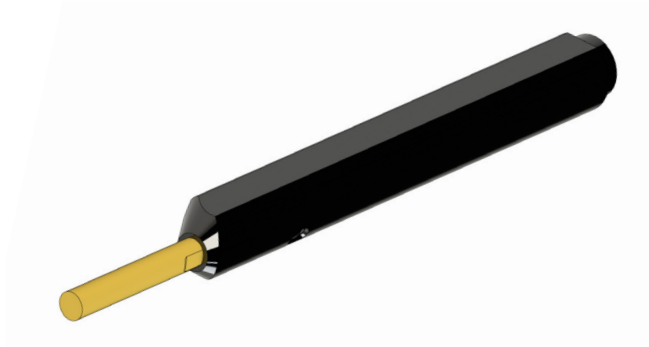
OTHER INSERT SHAPES



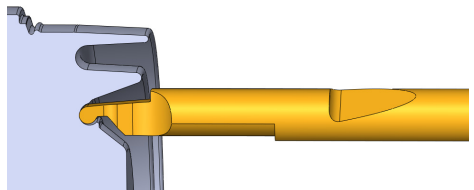
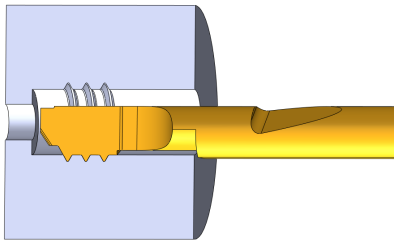
EXAMPLES OF OUR PRODUCTION:



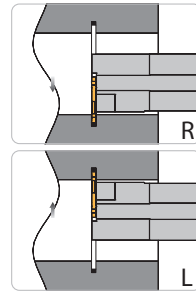
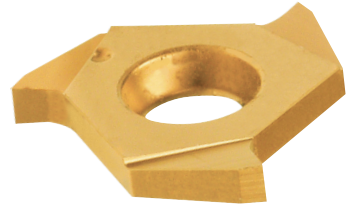
CUSTOMIZED MICRO CUTTING SYSTEM - MCS



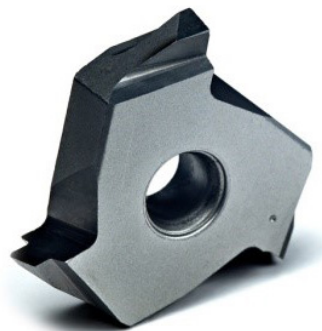
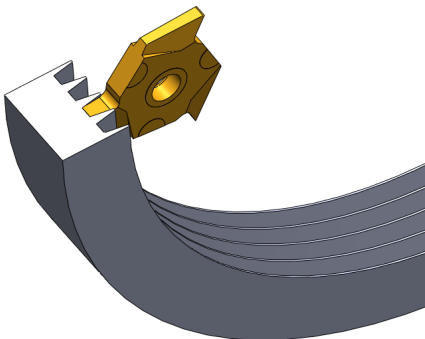
EXAMPLES OF OUR PRODUCTION:



MULTI3 CUT - M3C - INTERNAL



EXAMPLES OF OUR PRODUCTION:



STANDARD TOOLS

IN ADDITION TO SPECIAL TOOLS AND SOLUTIONS FOR MACHINING SMALL INTERNAL DIAMETERS, WE ALSO HAVE A WIDE RANGE OF HIGH-QUALITY STANDARD TOOLS.

STANDARD TOOLS

MICRO CUTTING SYSTEM - MCS

GROOVING, PARTING-OFF

TOOLHOLDERS

WORKPIECE CLAMPING

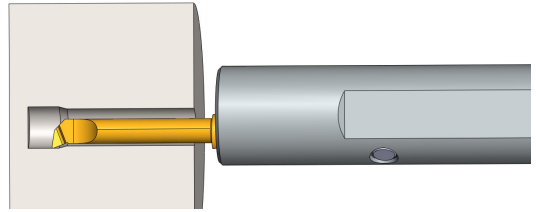
THREADING

MILLING

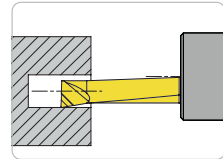
TURNING INSERTS

TURNING HOLDERS

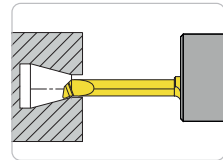
MICRO CUTTING SYSTEM - MCS GENERAL TURNING



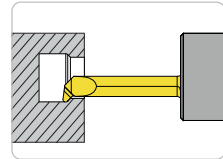
- TURNING
 $D_{min} = 0,7 \text{ mm}$



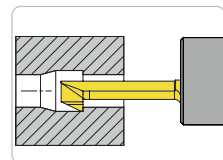
- COPY TURNING 20°
 $D_{min} = 1,5 \text{ mm}$



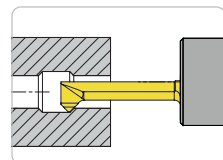
- COPY TURNING 45°
 $D_{min} = 1,6 \text{ mm}$



- BACK TURNING
 $D_{min} = 3,9 \text{ mm}$



- CHAMFERING
 $D_{min} = 2,5 \text{ mm}$

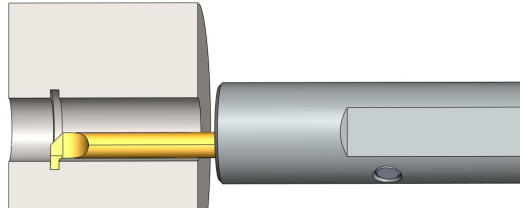


LINK TO OUR CATALOG:



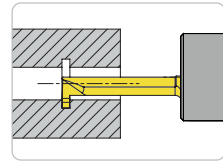
MICRO CUTTING SYSTEM

- MCS GROOVING



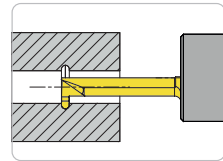
- GROOVING

$D_{min} = 2,5 \text{ mm}$



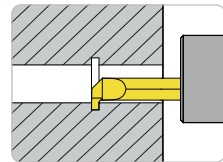
- RADIUS GROOVING

$D_{min} = 3,9 \text{ mm}$



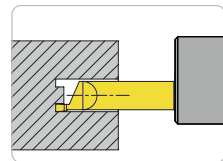
- CIR-CLIP GROOVING DIN 471/472

$D_{min} = 4,1 \text{ mm}$



- AXIAL GROOVING

$D_{min} = 5,0 \text{ mm}$

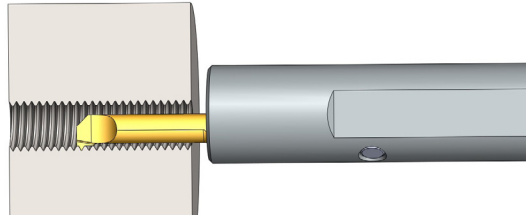


LINK TO OUR CATALOG:

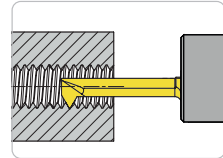


MICRO CUTTING SYSTEM

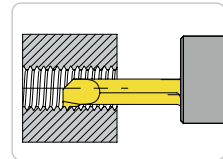
- MCS THREADING



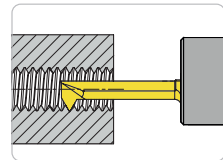
- METRIC PARTIAL PROFILE 60°
D_{min} = 2,3 mm



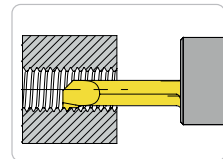
- METRIC FULL PROFILE 60°
D_{min} = 3,7 mm



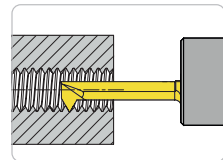
- WHITWORTH PARTIAL PROFILE 55°
D_{min} = 3,3 mm



- WHITWORTH FULL PROFILE 55°
D_{min} = 4,0 mm



- TRAPEZOIDAL 30°
D_{min} = 6,5 mm



LINK TO OUR CATALOG:



GROOVING, PARTING-OFF



TOOLS FOR STABLE GROOVING AND PARTING-OFF OPERATIONS.

- MONOBLOCK HOLDERS
- MODULS
- BLADES

LINK TO OUR CATALOG:

HIGH COOLING PERFORMANCE



TOOLHOLDERS



- COLLET CHUCKS
- END MILL HOLDERS
- ADAPTOR SLEEVES

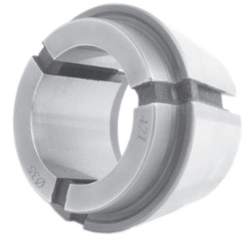
LINK TO OUR CATALOG:



- COMBI SHELL MILL HOLDERS
- HYDRAULIC EXPANSION CHUCKS
- SHRINK CHUCKS

WORKPIECE CLAMPING

THE CLAMPING SOLUTION FOR YOUR APPLICATION,
CLAMPING REPEABILITY UP TO 0,003 MM



LINK TO OUR CATALOG:



THREADING

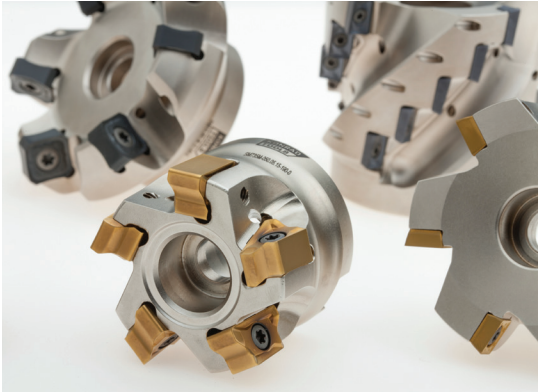
A WIDE RANGE OF THREADING INSERTS
INSERTS DIMENSIONS 6 - 27 MM



LINK TO OUR CATALOG:



MILLING



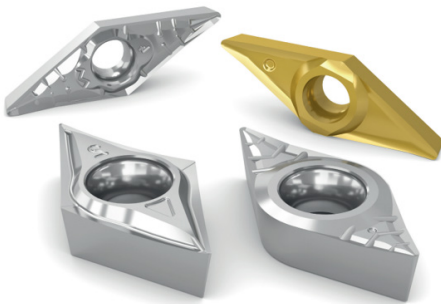
LINK TO OUR CATALOG:



QUALITY MILLING HOLDERS AND
HIGH PERFORMANCE MILLING INSERTS

TURNING INSERTS

LONG INSERTS LIFETIME THANKS TO PRECISELY
CHOSEN CARBIDE AND COATING



LINK TO OUR CATALOG:



EXTRA SHARP EDGE INSERTS FOR MACHINING
DIFFICULT TO CUT MATERIALS

TURNING HOLDERS

QUALITY TURNING HOLDERS FOR EVERY
APPLICATION



LINK TO OUR CATALOG:



QUALITY STEEL AND PRECISE SEAT MANUFACTURING
LEAD TO HIGH ACCURACY AND LIFE TIME

CONTACTS

IF YOU WOULD LIKE TO FIND OUT MORE ABOUT OUR PRODUCTS OR HAVE ANY GENERAL INQUIRIES, PLEASE DON'T HESITATE TO CONTACT US.

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Tel: +420 602 500 466

Web: www.tmccr.cz/eng/



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Jan Konrad

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