



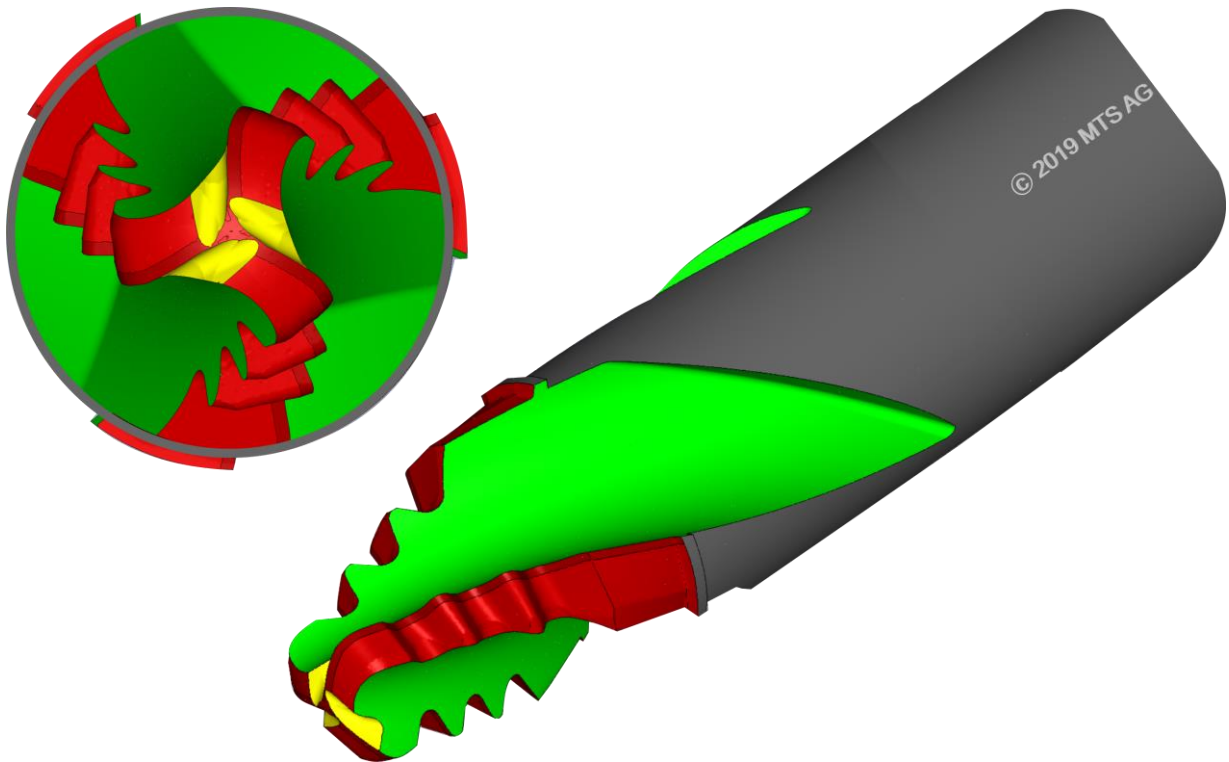
MTS AG  
Mathematisch-Technische-Software

*tool-kit* PROFESSIONAL by MTS AG

# Software-Modul

## Spezifikation „Profile Tools/SMENU“

Stand: 10.08.20



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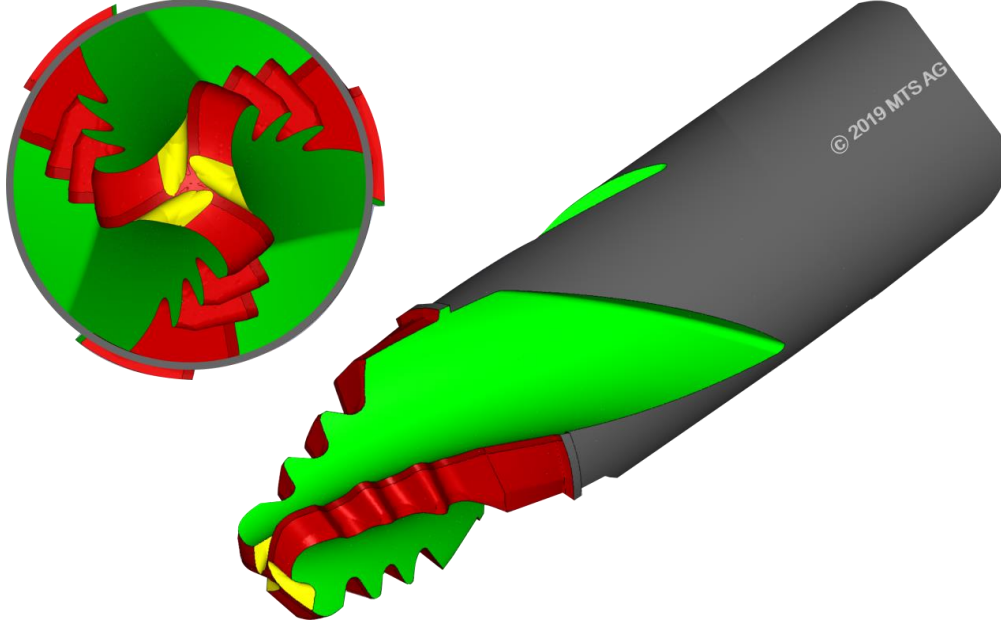


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## 8.1 Profile Tools

SMENU



### 8.1 Basic Modul „Increasing/Downgrade Profile“

- **Workpiece:**  
Tools with increasing and **falling** profile
- **Point and Geometry:**  
Milling End Face like 1.1  
Drills Point like 6.1
- **Cutting Edge Combination:**  
right helix/right cut  
left helix/left cut
- **Production / Regrinding:**  
Production by different infeed (several steps)  
Regrinding with calculation of removal length, periphery and rake.  
Regrinding, finishing with different wheels
- **Profile:**  
CAD-system for profile construction
- **Profile Element:**  
Straight line  
Edge  
Convex / concave radius  
Chamfer  
Increasing / downgrade profile  
Free selectable sequence of the profile elements
- **Preparation:**  
Separation (cut off)  
Profile roughing  
Profile finishing  
Straight polishing  
Corresponding to a defined blank profile
- **Main Fluting:**  
Straight fluting  
Tapered fluting  
Spade drill fluting
- **Periphery:**  
Linear relief: 1st/ 2nd /3rd relief angle  
Radial relief: 1st relief angle  
Cylindrical relief  
Raised land fluting  
Multi facet raised land fluting
- **Extension: Reading DXF-Format**  
Reading an external created **DXF-file**  
Konverting into MTS-file-format  
autom. sorted elements  
autom. corrected sequence  
autom. corrected orientation  
Selecting the particular layer
- **DXF-Standard:**  
AutoCAD Version 12  
DXF-identification-code „AC1008“



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**8.2 Profile Tools Multi Fluting Geometry**

**2SMENU**

**8.2 Multi Fluting Geometry**  
**Extension to 8.1:**

- **Multi Fluting Geometry:**  
Up to 5 flutings with separate definition  
but common cutting edge



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**8.3 Profile Tools Radial Periphery**

**3SMENU**

**8.3 Radial Periphery**  
**Extension to 8.1:**

- **Radial Periphery:**  
Radial periphery along discretionary sections  
Special grinding procedure by radius wheel



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**8.4 Profile Tools Multi Cutter Geometry**

**4SMENU**

8.4 Multi Cutter Geometry  
**Extension to 8.1:**

- **Multi Cutting Geometry:**  
Multi cutting tools with  
2 Groups  
In pairs different cut geometry