



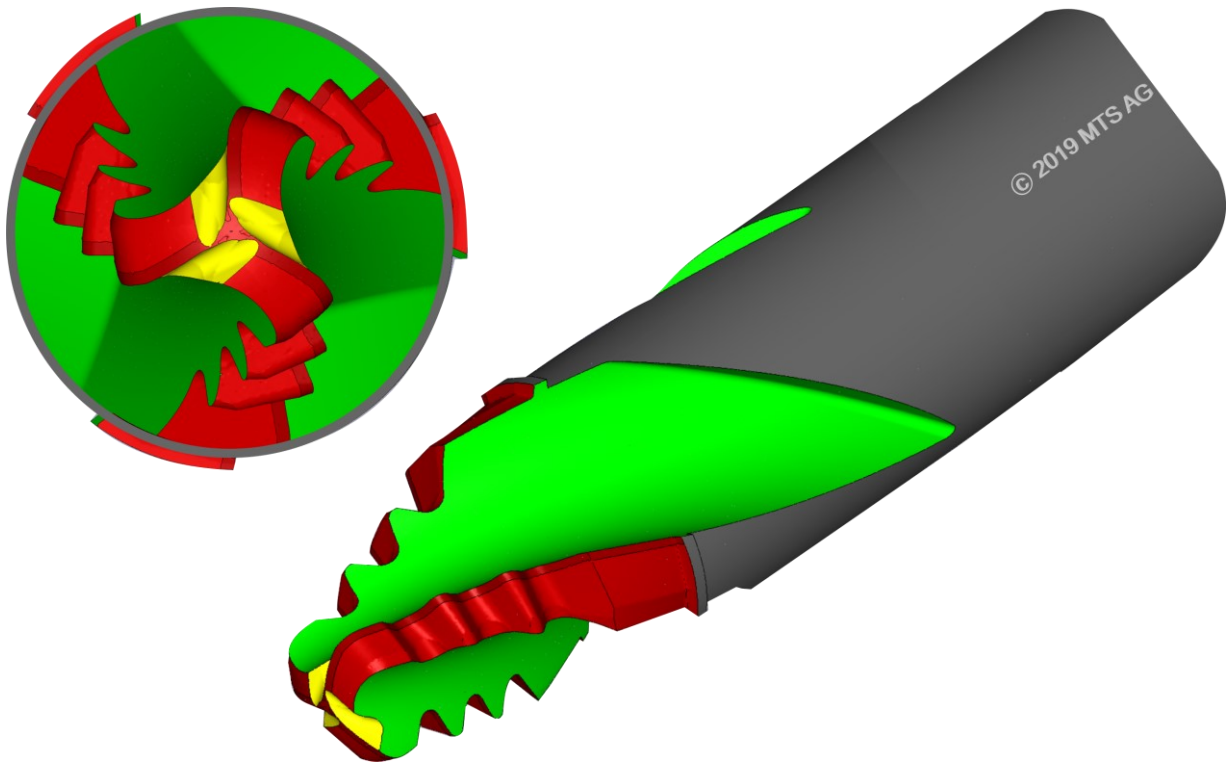
MTS AG
Mathematisch-Technische-Software

tool-kit PROFESSIONAL by MTS AG

Software-Modul

Spezifikation „Profile Tools/SMENU“

Stand: 07.06.23



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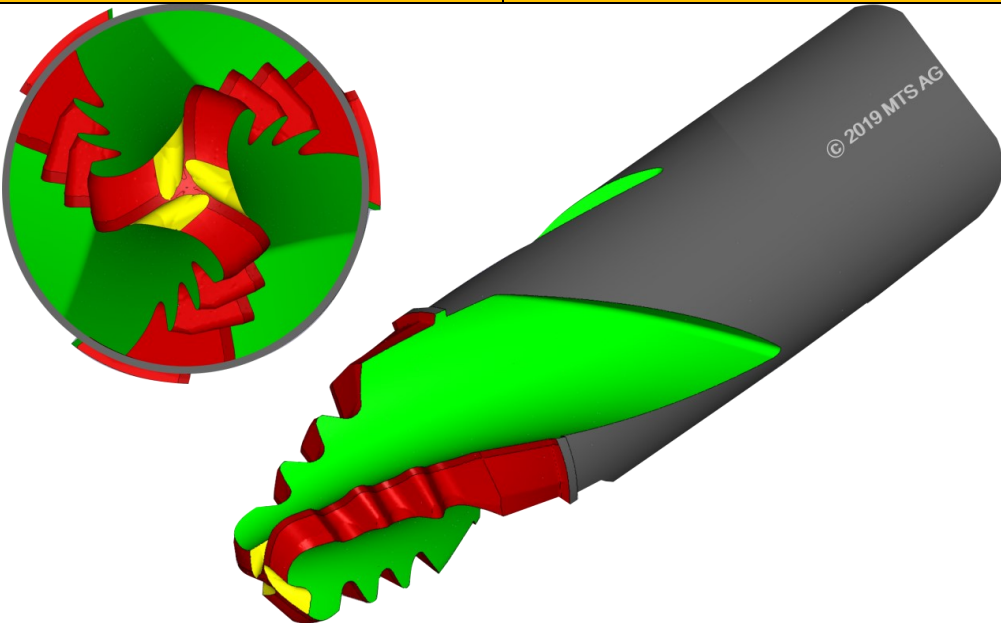


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8.1 Profile Tools	SMENU
	
8.1 Basic Modul „Increasing/Downgrade Profile “	
<ul style="list-style-type: none"> • Workpiece: Tools with increasing and falling profile • Point and Geometry: Milling End Face like 1.1 Drills Point like 6.1 • Cutting Edge 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 	<ul style="list-style-type: none"> • 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:		
<ul style="list-style-type: none">• 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:	
<ul style="list-style-type: none">• 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:		
<ul style="list-style-type: none">• Multi Cutting Geometry: Multi cutting tools with 2 Groups In pairs different cut geometry		
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