

<b>2 1/2 axis Milling</b>	<b>3X</b>	<b>4X</b>	<b>5X</b>	<b>5Xtra</b>
Profiling	✓	✓	✓	✓
Pocketing	✓	✓	✓	✓
Facing	✓	✓	✓	✓
Drilling	✓	✓	✓	✓
Engraving	✓	✓	✓	✓
V-carving			✓	✓
<b>3 axis Milling</b>	<b>3X</b>	<b>4X</b>	<b>5X</b>	<b>5Xtra</b>
Z-level Pocketing	✓	✓	✓	✓
Z-level Facing	✓	✓	✓	✓
Parallel Roughing	✓	✓	✓	✓
Z-level finishing (Water line finishing)	✓	✓	✓	✓
Planar finishing	✓	✓	✓	✓
Planar contour finishing		✓	✓	✓
Pencil Tracing	✓	✓	✓	✓
Surface angle limit control (Steep or flat surface machining)	✓	✓	✓	✓
Along Curves (Engraving)	✓	✓	✓	✓
<b>5Xtraject curves (Engraving)</b>				
Between two curves	✓	✓	✓	✓
From boundary curves	✓	✓	✓	✓
Roughing from 3D Stock Model		✓	✓	✓
Re-roughing			✓	✓
Z-level remachining			✓	✓
Planar remachining			✓	✓
Contour remachining			✓	✓
V-carving			✓	✓
<b>4 axis Milling</b>	<b>3X</b>	<b>4X</b>	<b>5X</b>	<b>5Xtra</b>
Indexed 3 + 1-axis (Including all madCAM toolpath functions)		✓	✓	✓
Simultaneous 4-axis Profiling		✓	✓	✓
Simultaneous 4-axis Pocketing		✓	✓	✓
Simultaneous 4-axis Facing		✓	✓	✓
Simultaneous 4-axis Radial-level Pocketing		✓	✓	✓
Simultaneous 4-axis Radial-level Facing		✓	✓	✓
Simultaneous 4-axis Parallel Roughing		✓	✓	✓
Simultaneous 4-axis Radial-level finishing		✓	✓	✓
Simultaneous 4-axis Planar finishing		✓	✓	✓
Simultaneous 4-axis Planar contour finishing		✓	✓	✓
Simultaneous 4-axis Pencil Tracing		✓	✓	✓
Surface angle limit control (Steep or flat surface machining)		✓	✓	✓
Simultaneous 4-axis Along Curves (Engraving)		✓	✓	✓
Simultaneous 4-axis Project curves (Engraving)		✓	✓	✓
Simultaneous 4-axis Between two curves		✓	✓	✓
Simultaneous 4-axis From boundary curves		✓	✓	✓
Simultaneous 4-axis Roughing from 3D Stock Model		✓	✓	✓
Simultaneous 4-axis Radial-level remachining			✓	✓
Simultaneous 4-axis Planar remachining			✓	✓
Simultaneous 4-axis Contour remachining			✓	✓
Simultaneous 4-axis V-carving			✓	✓
<b>5 axis Milling</b>	<b>3X</b>	<b>4X</b>	<b>5X</b>	<b>5Xtra</b>
Indexed 3 + 2 axis (Including all madCAM toolpath functions)			✓	✓
Simultaneous 5 axis from axis of revolution				✓
(Including all madCAM toolpath functions except re-roughing)			✓	✓
Simultaneous 5-axis Drive Surface Offset-level Pocketing				✓

Simultaneous 5-axis Drive Surface Offset-level Facing				✓
Simultaneous 5-axis Drive Surface U-V Roughing				✓
Simultaneous 5-axis Drive Surface Offset-level finishing				✓
Simultaneous 5-axis Drive Surface U-V finishing				✓
Simultaneous 5-axis Drive Surface border contour finishing				✓
Simultaneous 5-axis Drive Surface Pencil Tracing				✓
Simultaneous 5-axis Drive Surface angle limit control				✓
Simultaneous 5-axis SWARF Profiling from surface edge curves				✓
Simultaneous 5-axis Profiling perpendicular to surface				✓
Simultaneous 5-axis Part trimming from curves and vectors				✓
<b>Regions and Boundaries</b>	<b>3X</b>	<b>4X</b>	<b>5X</b>	<b>5Xtra</b>
Box work piece	✓	✓	✓	✓
Region Curves	✓	✓	✓	✓
Tool path Clipping planes	✓	✓	✓	✓
User defined 3D stock models (Except simultaneous 5-axis drive surface)		✓	✓	✓
Drive Surface calculation height and depth option				✓
Regions from drive surface borders (trim curves)				✓
Drive Surface tool path clipping levels option.				✓
Simultaneous 5-axis vertical angle limit option				✓
<b>Toolpath editing</b>	<b>3X</b>	<b>4X</b>	<b>5X</b>	<b>5Xtra</b>
Edit as ordinary Rhino curves <small>(The toolpath curves are saved in Rhino as standard Rhino curves and can be edited by using standard Rhino commands)</small>	✓	✓	✓	✓
<b>Simulation</b>	<b>3X</b>	<b>4X</b>	<b>5X</b>	<b>5Xtra</b>
3-axis Material removal simulation	✓	✓	✓	✓
3-axis Tool holder collision simulation	✓	✓	✓	✓
4 axis machine parts simulation		✓	✓	✓
5-axis machine parts simulation			✓	✓
<b>Custom machine</b>	<b>3X</b>	<b>4X</b>	<b>5X</b>	<b>5Xtra</b>
4-axis machine setup		✓	✓	✓
5-axis machine setup			✓	✓
Custom STL files support for machine parts simulation		✓	✓	✓
External DLL support for machine kinematics				✓
<b>Post Processor</b>	<b>3X</b>	<b>4X</b>	<b>5X</b>	<b>5Xtra</b>
Customizable post processors	✓	✓	✓	✓
4-axis output		✓	✓	✓
5-axis output			✓	✓
5-axis APT output			✓	✓