madCAM®

Mould and Die CAM System
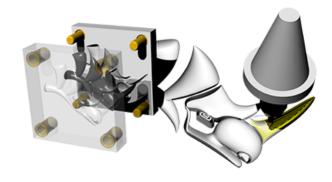
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Features

Compare the product features and see what the different versions of madCAM can do for you!

2 1/2 axis Milling	3X	3Xtra	4X	4Xtra	5X	5Xtra
Profiling	X	X	X	X	X	X
Pocketing	X	X	X	X	X	X
Facing	X	X	X	X	X	X
Drilling	X	X	X	X	X	X
Engraving	X	X	X	X	X	X
V-carving		X	X	X	X	X

3 axis Milling	3X	3Xtra	4X	4Xtra	5X	5Xtra
Z-level Pocketing	X	X	X	X	X	X
Z-level Facing	X	X	X	X	X	X
Parallel Roughing	X	X	X	X	X	X
Z-level finishing (Water line finishing)	X	X	X	X	X	X
Planar finishing	X	X	X	X	X	X
Planar contour finishing		X	X	X	X	X
Pencil Tracing	X	X	X	X	X	X
Surface angle limit control (Steep or flat surface machining)	X	X	X	X	X	X
Along Curves (Engraving)	X	X	X	X	X	X
Project curves (Engraving)	X	X	X	X	X	X
Between two curves	X	X	X	X	X	X
From boundary curves	X	X	X	X	X	X
Roughing from 3D Stock Model		X	X	X	X	X
Re-roughing		X		X	X	X
Z-level remachining		X		X	X	X
Planar remachining		X		X	X	X
Contour remachining		X		X	X	X
V-carving		X		X	X	X

4 axis Milling	3X	3Xtra	4X	4Xtra	5X	5Xtra
Indexed 3 + 1-axis (Including all madCAM toolpath functions)			X	X	X	X
Simultaneous 4-axis Profiling			X	X	X	X
Simultaneous 4-axis Pocketing			X	X	X	X
Simultaneous 4-axis Facing			X	X	X	X

Simultaneous 4-axis Radial-level Pocketing			X	X	X	X
Simultaneous 4-axis Radial-level Facing			X	X	X	X
Simultaneous 4-axis Parallel Roughing			X	X	X	X
Simultaneous 4-axis Radial-level finishing			X	X	X	X
Simultaneous 4-axis Planar finishing			X	X	X	X
Simultaneous 4-axis Planar contour finishing			X	X	X	X
Simultaneous 4-axis Spiral finishing			X	X	X	X
Simultaneous 4-axis Pencil Tracing			X	X	X	X
Surface angle limit control (Steep or flat surface machining)			X	X	X	X
Simultaneous 4-axis Along Curves (Engraving)			X	X	X	X
Simultaneous 4-axis Project curves (Engraving)			X	X	X	X
Simultaneous 4-axis Between two curves			X	X	X	X
Simultaneous 4-axis From boundary curves			X	X	X	X
Simultaneous 4-axis Roughing from 3D Stock Model			X	X	X	X
Simultaneous 4-axis Radial-level remachining				X	X	X
Simultaneous 4-axis Planar remachining				X	X	X
Simultaneous 4-axis Contour remachining				X	X	X
Simultaneous 4-axis V-carving				X	X	X

5 axis Milling	3X	3Xtra	4X	4Xtra	5X	5Xtra
Indexed 3 + 2 axis (Including all madCAM toolpath functions)					X	X
Simultaneous 5 axis from axis of revolution (Including all madCAM toolpath functions except re-roughing)					X	X
Simultaneous 5-axis Drive Surface Offset-level Pocketing						X
Simultaneous 5-axis Drive Surface Offset-level Facing						X
Simultaneous 5-axis Drive Surface U-V Roughing						X
Simultaneous 5-axis Drive Surface Offset-level finishing						X
Simultaneous 5-axis Drive Surface U-V finishing						X
Simultaneous 5-axis Drive Surface border contour finishing						X
Simultaneous 5-axis Closed Drive Surface spiral finishing						X
Simultaneous 5-axis Drive Surface Pencil Tracing						X
Simultaneous 5-axis Drive Surface angle limit control						X
Simultaneous 5-axis SWARF Profiling from surface edge curves						X
Simultaneous 5-axis Profiling perpendicular to surface						X
Simultaneous 5-axis Part trimming from curves and vectors						X

Regions and Boundaries	3X	3Xtra	4X	4Xtra	5X	5Xtra
Box work piece	X	X	X	X	X	X
Region Curves	X	X	X	X	X	X
Tool path Clipping planes	X	X	X	X	X	X
User defined 3D stock models (Except simultaneous 5-axis drive surface)		X	X	X	X	X
Drive Surface calculation height and depth option						X
Regions from drive surface borders (trim curves)						X
Drive Surface tool path clipping levels option.						X
Simultaneous 5-axis vertical angle limit option						X

Toolpath editing	3X	3Xtra	4X	4Xtra	5X	5Xtra
Transform and copy as ordinary Rhino curves (The toolpath curves are saved in Rhino as standard Rhino curves and can be transformed by using standard Rhino commands. It is also possible to edit control points on a toolpath curve.)	X	X	X	X	X	X

Simulation	3X	3Xtra	4X	4Xtra	5X	5Xtra
3-axis Material removal simulation	X	X	X	X	X	X
3-axis Tool holder collision simulation	X	X	X	X	X	X
4 axis machine parts simulation			X	X	X	X
5-axis machine parts simulation					X	X

Custom machine	3X	3Xtra	4X	4Xtra	5X	5Xtra
4-axis machine setup			X	X	X	X
5-axis machine setup					X	X
Custom STL files support for machine parts simulation		X	X	X	X	X
External DLL support for machine kinematics						X

Post Processor	3X	3Xtra	4X	4Xtra	5X	5Xtra
Customizable post processors	X	X	X	X	X	X
4-axis output			X	X	X	X
5-axis output					X	X
5-axis APT output					X	X

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