

Design Enhancements

Mastercam X7 includes a new Modify Solid Fillet function to quickly change the radius of fillets in solid models that do not have any operation history. The new Solid Hole-Axis function creates axis lines in circular holes in solid bodies, with or without history. The Remove Solid Fillet function removes fillets from solid models that do not have any operation history. You can select and remove fillets individually, or in groups of tangential fillets or fillets with matching radii.



Some of the new features available in Mastercam X7 include:

- Mastercam Mill-Turn
- Enhanced Multi-Core Support
- Improved Backplot and Verify Utilities
- Stock Model Improvements
- Renishaw Productivity+
- Improved Dynamic Mill and OptiRough Motion
- New Tool Manager and Tool and Holder Wizard
- Custom Tool Improvements
- Multi-threading Support for 2D HST Toolpaths
- Dynamic Motion for 2D HST Peel Mill
- Blend Mill Improvements
- 3D HST Hybrid Enhancements
- 3D HST OptiCore and OptiArea Toolpath Improvements
- Trim to Stock for Classic Multiaxis Toolpaths
- Solid Modify and Solid Remove Fillet
- Solid Hole-Axis
- Xform Project Improvements
- Oscillate Motion for Curve and Swarf 5-axis
- New Lathe Dynamic Rough Toolpath
- Lathe Rough Zigzag Motion Options
- Full Radius Tool Support for Plunge Turn
- New File Editor
- File Translator Updates
- New Mastercam Art Install
- Check Surface Support
- Port and Blade Expert Improvements

For a full list of new features in X7 visit www.mastercam.com/value and for a video of the latest enhancements visit www.mastercam.com/enhancements.

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X7

What's New!

- Mastercam Mill-Turn
- Renishaw Productivity+™
- Lathe Dynamic Rough Toolpath
- Multiaxis Enhancements
- And much more ...

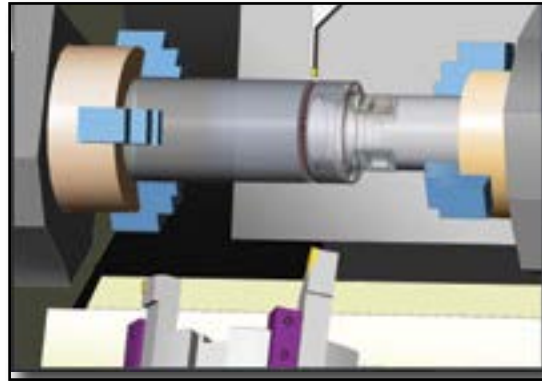
Mastercam

Enhancements

Highlights of Mastercam X7's Powerful New Tools

Mastercam Mill-Turn

Mastercam Mill-Turn makes machining on today's high-powered turning center and full-function machining centers simpler and easier. Mill-Turn streamlines the programming process with intelligent job setups that are keyed to the exact machine in your shop. Utilizing intelligent work plane selection, it's as easy as selecting the spindle and turret you wish to utilize, and creating your toolpaths using Mastercam's proven milling and lathe toolpaths.



New Tool Manager

Mastercam's new Tool Manager provides a whole new way to organize and create your mill and router tooling. It has been built from the ground up as a flexible and efficient way to manage tools and tool holding components and to create tool assemblies that can be used in Mastercam. It also integrates work material and cut parameter data so you can take advantage of a manufacturer's cutting recommendations.

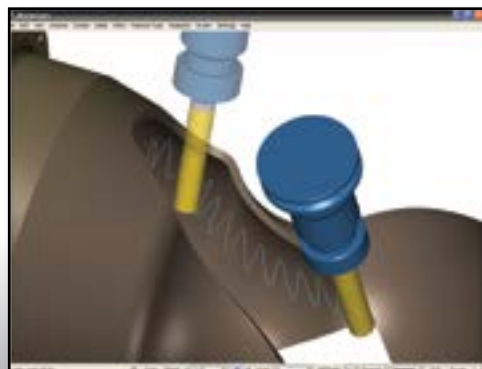


3D HST Hybrid

The 3D HST Hybrid toolpath now includes a new Optimize cut order check box. This option defines the cut order Mastercam applies to different cutting passes in the toolpath. When selected, Mastercam works in tiers, ordering the toolpath's cutting passes based on proximity and safety.

Multiaxis Machining Improvements

Oscillating tool motion improves your tool life by not always machining with the same area of the tool. This is especially useful for trimming work. The Curve 5-axis and Swarf 5-axis toolpaths now include an Oscillate option, where you can select either linear or high speed motion as your tool moves through the toolpath. The new Trim to Stock function for Classic multiaxis toolpaths automatically modifies your multiaxis toolpath to reduce air cutting. And, you now have the ability to define individual Safety Zones inside the Classic multiaxis toolpaths so that the tool can safely and efficiently link rapid motions inside those toolpaths.



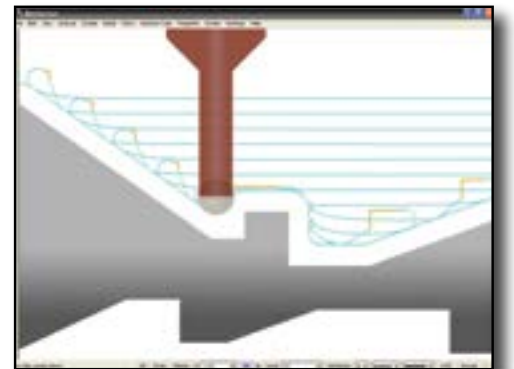
Improved Backplot and Verify Utilities

Knowing your results before committing tool to material is crucial. Mastercam gives you several ways to ensure your part will come off the machine exactly as you want it. The Mastercam Simulator offers a single streamlined interface for solid-model verification and toolpath backplotting with a powerful set of analysis tools and information. Mastercam Simulator opens in its own window, letting you work and adjust your project as the tool motion display continues.



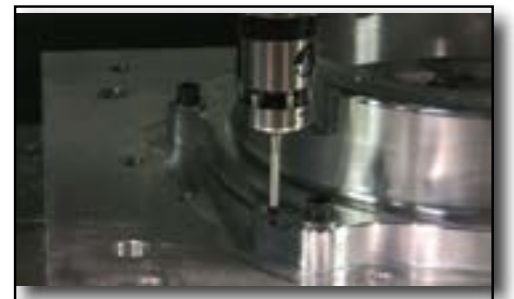
New Lathe Dynamic Rough Toolpath

The Lathe Dynamic Rough toolpath is designed for hard materials cut with button inserts. The dynamic motion allows the toolpath to cut gradually, remain more effectively engaged in the material, and use more of the surface on your insert, extending tool life and increasing the cutting speed.



Renishaw's Productivity+

Mastercam X7 integrates Renishaw's Productivity+ for in-process gauging. This is the ability to use a measuring probe on a machine tool to determine fixture offsets, orientation, and critical dimensions. Probing eliminates the need for tool presetters, expensive fixtures, and manual setting with dial indicators. It allows for machine offsets to be automatically adjusted, even during the machining process, to further enhance the manufacturing process.



Please see the back panel for even more X7 highlights.



For more information about the entire family of Mastercam CAD/CAM solutions, contact your Mastercam Reseller or visit www.mastercam.com.