THE FUTURE IS DYNAMIC.
SHOP TESTED. SHOP PROVEN.

POWERED BY MASTERCAM’S
DYNAMIC MOTION™ TECHNOLOGY

Be Dynamic.
Mastercam’s sleek interface and crisp graphics are the first things you will notice. But it’s the streamlined workflow and Dynamic Motion efficiencies that will make the biggest impact on your work environment and profitability.

For more than 30 years, CNC Software, Inc., has been guided by these four principles. We feel that it is this loyalty to our core beliefs that has helped to make us a market leader and a valuable partner to customers world-wide.

**Stable, steady leadership.**

Not only do the founding partners still own the company, our entire leadership team has been extraordinarily stable. That means we can reach our short-term goals while keeping an eye on the long-term stability of our products.

**Sustainability keeps us invested in the future.**

We demonstrate our commitment to the future of our industry, as well as the next generation of manufacturing professionals, by maintaining a dedicated educational division. And we’ve done it for 30 years. No other CAD/CAM company can say that.

Even our headquarters is a state-of-the-art model of sustainability. By using an innovative combination of solar, geothermal, and conservation techniques, we are able to support much of our energy needs.

**Continuous innovation and improvement.**

As the market leader, our software is rigorously shop tested and proven in real-world environments. With a fully functioning, contemporary machine shop in our corporate headquarters, we are constantly testing our toolpaths, and our engineers are always seeking newer, more efficient ways to help your company be more profitable. Mastercam’s Dynamic Motion technology is just one example of cutting-edge efficiencies built into our software – at no extra cost to you.

**Local knowledge with global reach.**

Mastercam is backed by the largest and most knowledgeable support network in the industry. Our Resellers have an average of 20 years’ experience. With their knowledge of the local community and your work environment, they become true partners.

Our software partners offer highly specialized Add-On CAD/CAM functionality as well as supplemental training resources. Our online community includes a Mastercam User’s Forum, popular social networking sites, and YouTube reference videos. You can choose on-site classes or take advantage of Mastercam University® from any internet-connected computer 24/7.

At Mastercam, we believe the future is bright. And we’ll continue to do our part to make manufacturing smarter, safer, and more efficient.
Mastercam is continuing our tradition of developing new Dynamic Motion toolpaths.

Dynamic Motion is an exciting new approach to creating toolpaths. It forms the core of many of Mastercam’s most popular toolpaths from milling to turning, and we’re constantly expanding it across our products. Dynamic Motion is always included and never sold as an extra option. And you don’t need a new machine to take advantage of Dynamic Motion technology. Virtually any machine can experience these Dynamic improvements in speed, efficiency, and tool life.
THE FUTURE OF EFFICIENCY & SPEED IS HERE –
MASTERCAM’S DYNAMIC MOTION TECHNOLOGY.

Dynamic Motion is more efficient.

Mastercam’s Dynamic Motion technology is a new and exciting approach to creating toolpaths. In order to create the smoothest, most efficient cutting motion possible, Dynamic toolpaths calculate more than just the simple motion of the tool. They also use a proprietary set of rules to analyze tool engagement and the material removal, constantly changing the cut motion based on what’s happening at the machine, at that moment. The results include radically shorter cycle times, longer tool life, and less wear on machines.

Dynamic Motion is faster.

By maximizing safe engagement, Dynamic Motion toolpaths can reduce cycle times by 25 to 75 percent. Dynamic Motion toolpaths can use full-depth cutting, meaning far fewer step downs. And this means you can cut more parts in less time.

Dynamic Motion extends the life of tools and machines.

Traditional toolpaths often use only the flute nose, causing uneven tool wear. Because Mastercam’s Dynamic Motion can use the full flute length, you’ll get even wear and heat distribution resulting in fewer tool changes and less grinding that slows you down and costs you money.

This same Dynamic Motion also produces a consistent chip load, reducing vibration and pulling heat away from the part and tool through the chips themselves. That’s better for your tools, your machines, and your finished parts. And the smooth motion eliminates abrupt directional changes, keeping your machines more accurate with less maintenance.

Dynamic Motion makes easy work of cutting hard materials.

Roughing difficult materials like cobalt and titanium can pose a challenge to many shops. Mastercam’s Dynamic Motion toolpaths make it significantly easier by ensuring even heat and load distribution throughout the cut. This even distribution prevents material surface hardening and reduces the risks of tool breakage, giving you more consistent, predictable results every time.

For more information, visit MastercamDynamic.com
MILL

The most widely used CAM software in the world is now the most dynamic. Mastercam’s embedded Dynamic Motion technology dramatically shortens production times while extending the life of your machine and tools. Mastercam Mill is rich in features yet still simple and intuitive to use.

“Mastercam’s Dynamic toolpaths have allowed us to push our machine tools and reduce cycle times as much as 50%.”

Jason Premo, CEO, ADEX Machining Technologies, Greenville, SC

Dynamic Motion technology is truly the next big thing in CNC machining. It’s a new way of designing toolpaths that saves time while extending tool and machine life.
INTELLIGENT MACHINING SAVES TIME AND MONEY.

Dynamic Motion technology dramatically increases machine efficiency.

Since 2008, Mastercam has been building Dynamic Motion into our software. That means it has been shop-tested and proven in real-world environments. Dynamic Motion toolpaths carve out massive amounts of material quickly – while significantly extending the tool life – immediately putting more money in your pocket. Sounds unbelievable, right? But as the market leader, we’ve had our Dynamic Motion toolpaths tested in virtually every conceivable work environment around the world. It works.

Mastercam Mill, including our cutting-edge Dynamic Motion technology, has been shop-tested more than any CAM program in the world. You can count on Mastercam for real-world, tested solutions.

MASTERCAM IS MORE WIDELY USED THAN ANY OTHER CAM PROGRAM

For you, this means a few very good things. First, there’s a large and ever-growing base of potential employees already trained and comfortable with Mastercam. More trained, experienced, and certified Mastercam programmers makes your workforce focused and ready for expansion. Second, we are shop-tested. Our software engineers are constantly reaching out to customers to improve and streamline our products. This makes Mastercam the easy choice for the long haul.

Ultimately flexible and expandable.

Mastercam Mill offers a broad selection of solutions for almost any CNC milling challenge – 2D, 3D, or multiaxis. Whether your customer base is automotive or aerospace, medical or consumer products, energy or heavy machinery, Mastercam Mill is ready to help you deliver.

Mastercam’s large selection of toolpaths and functions means there’s always more than one way to get the job done. Once you program a part, no matter how complex, you can modify any element of the job and immediately get updated toolpaths without starting over. You can also build a library of your favorite machining strategies. Choose any of your saved operations, apply them to a part, and Mastercam helps adapt them to the new model. Because Mastercam Mill is fully integrated CAD/CAM, it’s fast, easy, and productive. The way programming should be.

Mastercam’s fully associative toolpaths let you efficiently make changes without slowing down. Mastercam Mill’s active Stock Model, Toolpath Verification, and Simulation features provide increased confidence on every project. The new Tool Manager delivers a fast, efficient way to create and organize your tooling assemblies.

With your standalone license of Mastercam Mill, you now have the option of also running the corresponding version of Mastercam for SOLIDWORKS.
2D MACHINING

Serious 2D capability.

Your daily needs for 2D machining can range from simple to very complex. Mastercam Mill delivers the tools you need.

- **Feature Based Machining** (FBM) automatically programs prismatic solid drill holes, contours, and pockets. Save or change the strategies at any time.
- Complete and easy control of approach, start points, and entry methods.
- **Contour and pocket remachining** use smaller tools to automatically clean out material left from previous operations.
- Radial chip thinning for a wide set of tools, plus specialized support for ISCAR’s **High Efficiency Machining** (HEM) tool set.

Dynamic Motion powers much of our 2D suite, constantly adapting to create smoother, safer motion and making better use of the entire tool. Check out new videos at [Mastercam.com](http://Mastercam.com) to hear it directly from our customers.

3D MACHINING

Our finish is more finished.

Mastercam’s extensively shop-tested 3D toolpaths provide unsurpassed control on surface cuts, delivering superior finishes and optimized cycle times. Our smart **hybrid finishing** creates a single toolpath that changes cut methods as the slope of the model changes. And our 3D Toolpath Refinement gives you a finished look to please even your toughest customers.

- Cut multiple surfaces, solid models, and mesh entities (STL data).
- **Dramatically efficient roughing** powered by Mastercam’s Dynamic Motion technology.
- Constant scallop machining maintains a consistent finish on sloped and flat surfaces alike by using a consistent 3D stepover.
- Constant-Z rest milling (remachining) identifies and machines areas and critical depths that need to be cut with a smaller tool.
- **Pencil tracing** walks a tool along the intersection of surfaces to clean out hard-to-reach areas. Single or multiple passes deliver precision cleanup.
MULTIAxis MaChinINg

Complexity simplified.

Multiaxis machining can dramatically increase a shop’s competitiveness. Mastercam’s multiaxis interface is surprisingly simple and intuitive to use, ensuring any shop can make the move when the time is right. And with Mastercam, you have complete control over the three crucial elements of multiaxis machining: cut pattern, tool axis control, and collision avoidance. From 4-axis rotary and roll die cutting to multiblade impellers with tight internal cuts, Mastercam helps simplify even the most complex jobs.

Other highlights include:
• Multisurface 5-axis roughing and finishing (including depth cuts), plunge roughing, and flowline machining.
• Swarf fanning and swarf machining over multisurface floors.
• Advanced gouge checking, a “safe zone” around the part, and safe linking between operations.
• Fast, simple 5-axis trimming and drilling.
• Create full 5-axis motion from a 3-axis toolpath.

For specialty machining, ask about these available Add-Ons:
• Mastercam Blade Expert delivers specialized tools for efficiently cutting multi-bladed parts and hubs.
• Mastercam Port Expert offers dramatically faster head port programming and smoother toolpath motion.

For more information, visit MastercamMill.com

“The accuracy of our medical parts is crucial. Patient care depends on it. And we depend on Mastercam.”

Wayne Gruver, Lead Toolmaker
Image Molding
Denver, CO
Mastercam Lathe lets you move the same part file between milling and turning operations with ease and confidence.

“Harbec’s success is driven by its focus on value. Mastercam Lathe allows us to extend its value on to our customers with its ease of use, strong emphasis on efficiency, and seamless transitions between other Mastercam products. It helps us keep a turn ahead of the competition.”

Pete Knapp, Mold Maker, Harbec, Inc., Ontario, NY

Dynamic Motion technology is truly the next big thing in CNC machining. It’s a new way of designing toolpaths that saves time while extending tool and machine life.
FAST, EASY, AND PRECISE TURNING.

Powerful, flexible tools from the market leader.

Mastercam Lathe gives you a set of tools that streamline your entire process. From accepting and programming any CAD file to Dynamic roughing and precision finishing, Mastercam Lathe gives you a variety of techniques to turn all of your parts exactly as you need them.

Efficient program designed for modern manufacturing.

Mastercam Lathe delivers a set of basic and advanced programming tools, with greatly expanded options when paired with Mastercam Mill. Easy rough, finish, thread, groove, bore, and drill routines combine with C/Y-axis machining to cut any job. Dependable toolpath verification gives you the confidence to run the most complex toolpaths on your machine, and Machine and Control Definition deliver an easy way to help make sure your parts are done right the first time.

Key turning features.

- A set of Quick Toolpaths that let you program in a few clicks.
- Intelligent ID and OD roughing, featuring both Dynamic and variable cutting.
- Fast facing including roughing and finishing.
- Grooving with multiple depth cuts including peck motion and also full-radius plunge turning.
- Complete threading with multiple starts, diameter calculation, and thread tables.
- Automatic gouge checking watches the front and back of the tool.
- Chuck, part, steady rest, and tailstock detection.
- Open and directly machine a solid model.
- Quick-turned profile generation for uniform and non-uniform parts.
- Full milling support available for machines with live tooling for C and Y axes.

With your standalone license of Mastercam Lathe, you now have the option of also running the corresponding version of Mastercam for SOLIDWORKS.

For more information, visit MastercamLathe.com
MILL-TURN

The most widely-used CAD/CAM software in the world now gives you the confidence to automate your complex programs on today’s high-powered, multi-streamed, multitasking machining centers. Program it right the first time, every time.

“The Mastercam Mill-Turn product unlocks the full potential of my customer’s machines, and with the ease of the drag and drop sync manager and fully modeled machine simulation, it gives me the confidence to use it.”

Jeremy Herron, DBS Solutions, LLC, Taylors, SC

Dynamic Motion technology is truly the next big thing in CNC machining. It’s a new way of designing toolpaths that saves time while extending tool and machine life.
RUN WITH PRIDE. RUN WITH CONFIDENCE.

Mastercam Mill-Turn simplifies your most complicated projects.

Mastercam Mill-Turn simplifies today’s high-powered, multi-stream machining centers. Designed to complement Mastercam’s powerful milling and turning toolpaths, Mill-Turn delivers the best in shop-tested cutting techniques combined with the latest in machine and toolpath management and verification.

Your workflow is easy: Choose your machine and Mastercam Mill-Turn automates part transfers, toolplanes, stock definition, and setup. Then apply your toolpaths and syncing, verify your project with simulation, and post your code. Changes along the way are fast and easy – the way programming should be.

Get the most out of your machines with Sync Manager.

Mill-Turn’s Sync Manager is a user-friendly way to optimize part cycle times and avoid collisions before your part reaches the machine. Mill-Turn has the option for unlimited streams where you can drag, drop, and sync operations to your liking. Easily navigate our Gantt-style timeline and vertical stream interface to coordinate operations and track cycle time estimates.

See it’s right. Know it’s right.

Simulation provides you with the ability to safely and confidently run your job on your machine environment virtually before it reaches the shop floor. All your machine’s components and your project’s machined stock are run on your desktop, ensuring a safe and secure machining experience. You can identify potential collisions, and explore ways to optimize your processes with simulation. Also, you will be able to view all streams and statistics of the entire machining process, and have the capability to jump to any point in the machining process with the click of a button.

For more information, visit MastercamMillTurn.com
Mastercam brings world-renowned service and support to the Swiss arena. Swiss machining is a completely different ball game, with extremely complex machines and multiple simultaneous moving parts. Mastercam is here to help you cut your parts safely and confidently every time. Now you can take on Swiss work with confidence.

“At Tectri, we machine complex and very precise parts as small as 1mm in diameter for the medical, dental, watchmaking, and aerospace industries. Mastercam Swiss gives us all of the tools necessary to take complex parts and program them quickly and efficiently.”

Fabien Bouduban, CEO and Owner, Tectri SA, Court, Switzerland
IF YOU ARE BRINGING SWISS CAPABILITIES TO YOUR SHOP, MAKE SURE TO BRING MASTERCAM SUPPORT AND SERVICE, TOO.

Making complex manufacturing easier.

Mastercam is known the world over for making your programming easier. From 2- through 5-axis parts, you'll be able to apply the wide array of efficient programming methods you’re used to, the Mastercam way. Sliding headstock machines pose a unique set of challenges, and Mastercam Swiss lets you bring our 30+ years of machining knowledge and support to your shop. Tool management, with its own set of separate challenges for each job, is easily set up from loaded, predefined libraries or your own custom ones, and transferable from job to job.

Synchronization tools optimize your Swiss machines.

Mastercam Swiss allows you to synchronize multiple operations quickly, easily, and with confidence. The Gantt-style method of synchronization lets you drag and drop operations with a clear overview of the workflow, while optimizing part cycle times and avoiding collisions. Mastercam Swiss supports an unlimited number of channels, and allows you to sync them by channel or tool group, which is easily differentiated by color coding.

Sophisticated simulation for complete confidence on every job.

Mastercam Swiss’ simulation provides a safe, virtual environment for the full simulation of every moving part of your machine, providing critical collision detection and toolpath prove-out. This is done with accurate machine models for Tsugami, Citizen, Star, Tornos, Hanwha, and many more. Simulation allows you to jump to any point in the simulation process, start and stop with the click of a button, all while simultaneously viewing the NC code for all channels.

For more information, visit MastercamSwiss.com
Mastercam gives your shop the best possible foundation for fast, efficient wire EDM cutting. Mastercam X9 Wire delivers powerful comprehensive wirepaths in a streamlined, easy to use interface.

“We always provide extreme due diligence to the design, development, and manufacture of our tooling and our customers’ parts. Mastercam is a big part of that.”

Chris Jordan, Manufacturing Engineer, Turbine Technologies, Inc., Farmington, CT

Mastercam is the most widely used CAM system in the world with local, experienced Resellers who provide the best support in the industry.
ROBUST EDM TOOLS DELIVER WHAT YOU NEED, WHEN YOU NEED IT.

The Mastercam difference.

Having the best software is only one ingredient for success. A global community of Mastercam users, experts, educators, and enthusiasts helps you get the most from your investment. Our local Resellers bring years of experience, helping to ensure that you’re getting the most practical and comprehensive support in the industry.

From 2- and 4-axis cutting to easy syncing and complete tab control, Mastercam Wire delivers the tools for fast, efficient wire programming.

Mastercam Wire makes it easy to expand your shop’s capabilities.

From basic 2-axis contouring to complex 4-axis motion, Mastercam ensures that you’re ready for any job. Mastercam delivers:

- **Contouring** made easy in 2- or 4-axis.
- **Automatic** lead-in and lead-out strategies.
- **Automatic or manual** 4-axis syncing.
- **Automatic** skim and reverse cuts.

Open virtually any CAD file or use Mastercam’s built-in 3D modeling tools.

Designed for efficiency.

Mastercam Wire lets you move a single part file between machines, saving time and reducing the opportunity for mistakes. User-customizable wire libraries store power settings and other registers for rough and skim passes.

Other features include:

- Efficient tab creation and management.
- Control settings for corner types and taper angles at any point in the contour.
- Straight or tapered cut from either direction.
- Wirepath filtering to significantly reduce file sizes.

Support for Agie EDM with Agievision controls.

For more information, visit MastercamWire.com
ROUTER

The most widely-used CAD/CAM software in the world is now the most dynamic. Mastercam’s embedded Dynamic Motion technology dramatically shortens production times while extending the life of your machine and tools. Mastercam Router is rich in features yet still simple and intuitive to use.

“Mastercam is an excellent program for a custom millwork shop like ours.”
Livio Passalent, President, Crescent Cabinet Company, Ltd., Ontario, Canada

Dynamic Motion technology is truly the next big thing in CNC machining. It’s a new way of designing toolpaths that saves time while extending tool and machine life.
Flexible and expandable.

Mastercam Router offers a broad selection of solutions for your shop’s wood or composite challenges – 2D, 3D, or multiaxis.

Once you program a part, no matter how complex, you can modify any element of the job and immediately get updated toolpaths without slowing down. You can also build a library of your favorite machining strategies. Choose any of your saved operations, apply them to a part, and Mastercam helps adapt them to the new model.

Mastercam’s powerful Dynamic Motion technology not only helps extend tool life and reduce machine wear, but helps eliminate tool dwell damage. **Automatic Toolpathing** brings in parts from today’s top design packages to help speed flat panel work.

A comprehensive package of powerful tools.

2D machining can range from simple to very complex. Mastercam Router delivers powerful 2D tools from contouring, pocketing, and drilling to automated, feature-based, solid model programming.

For 3D machining, Mastercam Router gives you streamlined, efficient 3D roughing and finishing, including automated leftover stock cleanup.

Mastercam’s multiaxis interface is surprisingly simple and intuitive to use. And with Mastercam, you have complete control over the three crucial elements of multiaxis machining: cut pattern, tool axis control, and collision avoidance.

Part and toolpath nesting increase project yields and profitability.

For more information, visit [MastercamRouter.com](http://MastercamRouter.com).
MASTERCAM FOR SOLIDWORKS

Mastercam for SOLIDWORKS users will feel at ease with the Mastercam machining tree, which delivers quick access to any point in the machining process. Mastercam users will recognize the shop-tested parameter screens and options with which they are already familiar.

“Mastercam for SOLIDWORKS is making my job easier. I’ve been using Dynamic toolpaths to get better finishes. It works so well that I’m getting work done in half the time.”

Nolan Farmer, Owner, Farmer Plastics & Machining, Inc., Jamestown, CO

Dynamic Motion technology is truly the next big thing in CNC machining. It’s a new way of designing toolpaths that saves time while extending tool and machine life.
MASTERCAM FOR SOLIDWORKS PROVIDES THE BEST OF BOTH WORLDS.

Mastercam is a SOLIDWORKS Gold Partner.

Mastercam for SOLIDWORKS combines the world’s leading modeling software with the world’s most widely-used CAM software so you can program parts directly in SOLIDWORKS, using toolpaths and machining strategies preferred by shops around the world. With Mastercam toolpaths integrated directly within the SOLIDWORKS environment, the toolpaths are applied directly to the part or assembly. Any design change that Mastercam for SOLIDWORKS encounters is handled quickly, with the affected toolpaths identified so the user can simply rebuild them. Configurations are also handled with ease, and copying toolpaths from one configuration to another is as simple as a right-click!

MASTERCAM IS MORE WIDELY USED THAN ANY OTHER CAM PROGRAM.

For you, this means a few very good things. First, there’s a large and ever-growing base of potential employees already trained and comfortable with Mastercam. More trained, experienced, and certified Mastercam programmers makes your workforce focused and ready for expansion. Second, we are shop-tested. Our software engineers are constantly reaching out to customers to improve and streamline our products. This makes Mastercam the easy choice for the long haul.

Ultimately flexible and expandable.

Mastercam for SOLIDWORKS’ comprehensive suite of toolpaths and functions means there’s always more than one way to get the job done. Once you program a part, no matter how complex, you can modify any element of the job, and immediately get updated toolpaths without starting over. You can also build a library of your favorite machining strategies. Choose any of your saved operations, apply them to a part, and Mastercam helps adapt them to the new model. Because Mastercam for SOLIDWORKS is a fully integrated gold partner, it’s fast, easy, and productive. The way programming should be.

You can choose to buy Mastercam for SOLIDWORKS alone, or you can purchase a standalone license of Mastercam Mill or Mastercam Lathe and have the option of also running the corresponding version of Mastercam for SOLIDWORKS.
2D MACHINING

Serious 2D capability.

Your daily needs for 2D machining can range from simple to very complex. Mastercam for SOLIDWORKS delivers the tools you need.

- Feature Based Machining (FBM) automatically programs prismatic solid model pockets, contours, and drilling routines, letting you save or change the strategies at any time.
- Contour and pocket remachining use smaller tools to automatically clean out material left from previous operations.

Dynamic Motion powers much of our 2D suite, constantly adapting to create smoother, safer motion and making better use of the entire tool.

3D MACHINING

Our finish is more finished.

Mastercam for SOLIDWORKS’ extensively shop-tested 3D toolpaths provide unsurpassed control on surface cuts, delivering superior finishes and optimized cycle times. Our smart hybrid finishing creates a single toolpath that changes cut methods as the slope of the model changes. And our 3D Toolpath Refinement gives you a finished look to please even your toughest customers.

- Dramatically efficient roughing powered by Mastercam’s Dynamic Motion technology.
- Constant scallop machining maintains a consistent finish on sloped and flat surfaces alike.
- Constant-Z rest milling (remachining) identifies and machines areas and critical depths that need to be cut with a smaller tool.
- Pencil tracing walks a tool along intersections to clean out hard-to-reach areas, such as internal fillets. Single or multiple passes deliver precision cleanup.

From the smallest medical part to the largest automotive mold, Mastercam for SOLIDWORKS ensures efficient roughing and precision finishing for any product.
MULTIAxis MACHINING

Complexity simplified.

Multiaxis machining can dramatically increase a shop’s competitiveness. Mastercam for SOLIDWORKS gives you streamlined control over the three crucial elements of multiaxis machining: cut pattern, tool axis control, and collision avoidance. From 4-axis rotary and roll die cutting to multiblade impellers with tight internal cuts, Mastercam helps simplify even the most complex jobs.

Other highlights include:

- **Multisurface 5-axis** roughing and finishing (including depth cuts), plunge roughing, and flowline machining.
- Swarf fanning and swarf machining over multisurface floors.
- **Advanced gouge checking** and a 5-axis “safe zone” around the work piece.
- Fast, simple 5-axis trimming and drilling.
- Create full 5-axis motion from a 3-axis toolpath.

From basic 5-axis contours to Dynamic roughing and complex finishing, Mastercam for SOLIDWORKS is built to streamline multiaxis programming.

TURNING

Fully integrated turning for SOLIDWORKS.

Mastercam for SOLIDWORKS’ powerful turning strategies compliment our milling toolpaths, giving you a complete toolkit from basic finishing, to face and cross contour and drilling, and more. Dependable toolpath verification gives you the confidence to run the most complex toolpaths on your machine, and Machine and Control Definition delivers a new way to make sure your parts are done right the first time.

- Easy roughing, finishing, threading, grooving, boring, drilling, and cut off.
- **Dynamic Motion** roughing extends insert life.
- Intelligent ID and OD roughing, including roughing to a boundary for castings.
- Tool Inspection lets you automatically stop machining, allowing you to check the insert during your roughing, finishing, and grooving operations.

For more information, visit MastercamForSOLIDWORKS.com
Mastercam’s streamlined CAD makes design work easier than ever. Each piece of geometry is 'live,' letting you quickly make modifications until it’s exactly what you want.

Mastercam delivers a robust set of CAD modeling and model prep tools designed to help you get your parts on and off the machine fast.

Mastercam is the most widely-used CAM software in the world with local, experienced Resellers who provide the best support in the industry.
Whether you are prepping customer files…

Getting a part file from an outside source can pose unique challenges. You might need to repair a surface, cap an area, modify a “brick” solid, or just make sure your fixtures are represented on the part. Mastercam includes a powerful set of prep tools to make sure the process goes smoothly. From robust surface creation and editing to “push-pull” solid model editing, Mastercam gives you the tools to bring a part from the designer's desk to your machine, fast. Mastercam will even recognize features on history-free solids and give you the power to edit, remove, or build on them with a few simple clicks.

Accept files from virtually any source.

Mastercam accepts file formats from whatever system you need, including IGES, Parasolid®, SAT (ACIS solids), AutoCAD® (DXF, DWG, and Inventor™ files), SOLIDWORKS® (including history tree), Solid Edge®, SpaceClaim, STEP, EPS, CADL, STL, and more. Add-On translators are available for Siemens NX, CATIA®, Pro/E (PTC Creo), and more.

…Or building your own from scratch.

Having powerful CAD at your fingertips makes your CAM system that much more effective. Mastercam includes a robust set of modeling tools from complete wireframe and surface modeling to history-based solid modeling. A true hybrid modeling system, Mastercam lets you create, combine, and machine whichever CAD geometry suits you best. Fast dimensioning and entity analysis tools ensure that any part you model will be precise and ready to make accurate toolpaths that give you the NC code you need.
Very often, that one additional CAD or CAM tool makes a specific job easier, faster, and more profitable. Mastercam offers a set of specialized options for these occasions, including:

Translators
In addition to the powerful data translators included in Mastercam, we offer several add-on translators including CATIA, Pro/E (PTC Creo), and Unigraphics (UG NX).

Blade Expert
Powerful, easy-to-use, and designed to create efficient, smooth, and gouge-free toolpaths for complex multi-bladed parts. It minimizes unnecessary motion, resulting in a highly efficient toolpath and superior blades, splitters, floors, and fillets.

Port Expert
Creates accurate, efficient engine cylinder head porting toolpaths on port surface or solid data. It minimizes unnecessary motion at the machine, resulting in a highly efficient toolpath with superior finish quality.

5-axis Drilling and 5-axis Swarf Milling
Add-Ons that deliver two targeted, powerful multiaxis techniques to your Mastercam programming. And Mastercam gives you an easy upgrade path to your investment into the full multiaxis machining package.
**Mastercam Productivity+™**

Brings Renishaw in-process probing and inspection to your Mastercam programs. Easily set up and validate parts and cutting tools, and even have the software make in-process adjustments where appropriate.

**Art**

Quickly bring your 2D sketches, clip art, photos, and CAD files to life by crafting them on screen and cutting them with easy, specialized toolpaths. A simple process takes you from your flat art to a beautifully sculpted piece that comes off the machine with exactly the look you want.

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**A world of Add-Ons for Mastercam users**

Mastercam’s open approach means that developers all around the world can make Add-Ons that run with our products. So if you need very specialized options to precisely match your customer, your workflow or you products, there’s probably a Mastercam Add-On option available.

Some of the most popular Add-Ons include:

- **ROBOT CONTROL**
  Robots add a new level of flexibility to your shop, and there are Mastercam Add-Ons for complete programming and simulation of robots.

- **MOLD CORE / CAVEITY SEPARATION**
  Complex molds pose a variety of challenges. Easily separate even the most problematic models into usable and logical core/cavity sets.

- **EDM ELECTRODE CREATION**
  Easily pull and isolate electrodes from CAD models for toolmaking.

- **INSPECTION AND REVERSE ENGINEERING**
  Easily inspect parts or quickly move from point cloud data to machinable model. Benefit from specialized functions for specific industries such as aerospace.

- **TOOL PRESETTING**
  Fast, accurate measurement of and feedback from actual tools in use on your machines.

Many more Add-Ons are available. Ask your local Reseller to help you find the precise solution for your specific need.

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For more information, visit [Mastercam.com](http://Mastercam.com)
About Us
CNC Software, Inc. is dedicated to providing state-of-the-art software tools for CAD/CAM manufacturing markets. Our goal is to provide superior software products based on our users' needs to solve simple to complex design and machining problems.