Z-4.508 A-55.9513 B16.4387 F893.1 Z-4.4698 A-56.3279 B15.0668 F904.19 Z-4.4316 A-56.6898 B13.6653 F912.54 Z-4.3933 A-57.0362 B12.2349 F918.07 Z-4.355 A-57.3663 B10.7769 F920.75 Z-4.3166 A-57.6794 B9.2924 F920.67 Z-4.2781 A-57.9748 B7.783 F917.93 Z-4.2396 A-58.2518 B6.2502 F912.73 Z-4.2011 A-58.5099 B4.6961 F905.28 Z-4.1625 A-58.7485 B3.1226 F895.85 Z-4.1238 A-58.9672 B1.5323 F884.67 Z-4.085 A-59.1656 B-.0726 F872.05 Z-4.0463 A-59.3434 B-1.6892 F858.2 Z-4.0074 A-59.5003 B-3.3146 F843.39 Z-3,9686 A-59,6362 B-4,946 F827,82 Z-3.9296 A-59.7511 B-6.58 F811.68 Z-3.8907 A-59.845 B-8.2134 F795.15 Z-3.8517 A-59.9181 B-9.8429 F778.35 Z-3.8126 A-59.9707 B-11.4649 F761.41 N73 Z-3.7736 A-60.0031 B-13.0759 F744.42 Z-3.7345 A-60.0158 B-14.6723 F727.45 N7 4 A-60.0095 B-16.2503 F710.55

Z-3.6562 A-59.9848 B-17.8064 F693.76 Z-3.6171 A-59.9426 B-19.3364 F677.06 Z-3.5779 A-59.8839 B-20.8365 F660.4 Z-3.5387 A-59.8098 B-22.3025 F643.4 Z-3.4995 A-59.7216 B-23.7297 F627 Z-3.4604 A-59.6207 B-25.1132 F610 Z-3.4212 A-59.509 B-26.4476 F594 Z-3.3821 A-59.3884 B-27.7264 F576 Z-3.343 A-59.2613 B-28.9423 F558 Z-3.304 A-59.1303 B-30.0864 F538 Z-3.2651 A-58.9989 B-31.1481 F5 Z-3.1877 A-58.7501 B-32.9717 F4 Z-3.1109 A-58.5519 B-34.2896 2.9604 A-58.4375 B-35.0062 F1 Z-2.9787 A-58.4142 B-35.1482 Z-3.1289 A-58.528 B-34.4418 F Z-3.2055 A-58.729 B-33.1175 Z-3.2828 A-58.9811 B-31.2861 Z-3.3217 A-59.1142 B-30.2209 Z-3.3606 A-59.2468 B-29.0739 Z-3.3996 A-59.3755 B-27.8558 7-3,4386 A-59,4976 B-26,575

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Sold Sold

AREBAR DU

N49 X2.6236 Y.5716 Z-4.1238 A-58.9672 B1.5323 F884.67 N50 X2.7702 Y.5707 Z-4.085 A-59.1656 B-.0726 F872.05 N51 X2.9168 Y.5699 Z-4.0463 A-59.3434 B-1.6892 F858.2 N52 X3.0634 Y.5692 Z-4.0074 A-59.5003 B-3.3146 F843.39 5686 Z-3.9686 A-59.6362 B-4.946 F827.82 N53 X3.2099 N54 X3.3564 Y.5681 Z-3.9296 A-59.7511 B-6.58 F811.68 Z-3.8907 A-59.845 B-8.2134 F795.15 N55 X3.5029 Y.5677 3.8517 A-59.9181 B-9.8429 F778.35

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SHAPING THE FUTURE OF MANUFACTURING®





LATHE













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5789

N43 X1.7436

N44 X1.8903

N45 X2.0369

X2.1836

N46

MILL-TURN

WIRE

ROUTER

Mastercam for **SOLIDWORKS®**

YOUR COMPETITIVE EDGE

It is our mission to create software and services that solve manufacturing challenges — with an uncompromising focus on the success of our customers. The benefits you will appreciate in Mastercam 2021 result from four strategic touchpoints for connectivity, efficiency, and advanced technology in the development of Mastercam solutions for manufacturing.

PERFORMANCE

Powerful tools for speedy performance.

Mastercam is easy and intuitive to use but maintains a depth of features to support the most complicated jobs. Our toolpaths are elegant and remarkably efficient.

PRODUCTIVITY

Advanced solutions for manufacturing.

We help connect the largest CAM community worldwide, and our success is a direct result of listening and responding to industry needs for productivity solutions from job set up to job completion.

PARTNERSHIP

Focus and cooperation for innovation.

Our dedication to the manufacturing community drives Mastercam innovation. We collaborate with leading tooling, software, and machine tool manufacturers to develop new technologies.

PROGRESS

Managing resources for better results.

Opportunities to drive down costs and increase profits can be found across the entire shop. Mastercam supports improved use of data-driven manufacturing in the digital age.



More than **430** sales and support offices worldwide



Local training, services, and technical support in more than **100 countries**



Most **widely used** CAD/CAM software in the world



More than **270,000** installed seats of Mastercam

PUTTING COMMUNITY FIRST

Since day one, Mastercam has been developed in partnership with the manufacturing community by listening and responding to the needs of our users. Our success is a direct result of staying connected — to our customer base, to our partner network, and to the trends of the manufacturing industry. We adapt to changing needs to ensure that your customer experience is the best it can be.

I am proud to represent a brand with a reputation for being dependable. From our support network to our technology, you can rely on us to get the job done, because our products and our company are here for more than just making a profit. We work with purpose, to leave a positive impact on everything we touch.

Mastercam users shape the world around us. You create the products and technology that propel innovation across every industry. From consumer goods, heavy industry, and automotive to aerospace, education, and medical manufacturing, our customers expand the limits of what is possible.

Our mission is to create software and services that solve the world's manufacturing challenges. As we look at Mastercam 2021 and beyond, it is our promise to continue to develop solutions to improve efficiency, connectivity, and precision. From job setup through job completion, you can depend on our technology to empower your productivity.

Meghan West President and CEO, CNC Software, Inc.



Industry leaders in education, aerospace, automotive, consumer, medical, and more



Online community for digital interaction, knowledge, and support

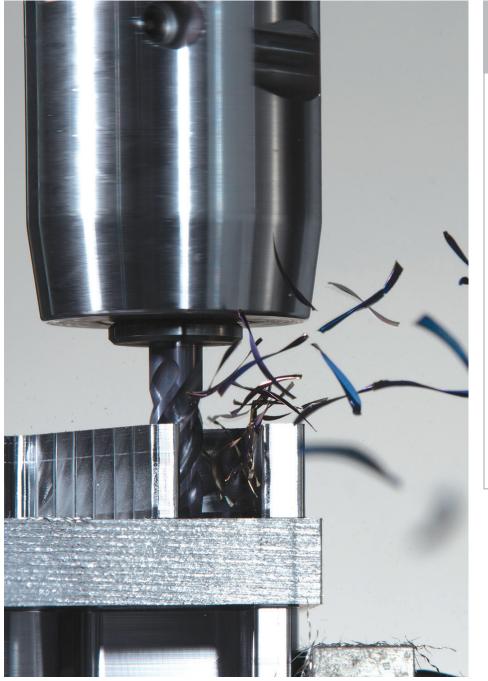
MASTERCAM'S LATEST INNOVATIONS FROM START TO FINISHING

DYNAMIC MOTION TECHNOLOGY IS A GAME CHANGER



Dynamic Motion[®] toolpaths safely maximize material removal rate, reducing cycle times by 25 to 75%. Dynamic Motion uses a proprietary software engine to continually adjust toolpath motion to maintain a constant chip thickness everywhere on the part. The result? Consistent machining performance, shorter cycle times, and longer tool life.

For more details and to see Dynamic Motion in action, visit Mastercam.com/dynamic.



SAVE TIME AND MONEY

100 steel (4140) parts cut with and without Dynamic toolpaths.

<u>WITH</u>

3 mins. 17 secs. \$100/hour machine cost 3 mins. 17 secs. x \$100/hour = \$5.47 \$5.47 per part x 100 parts = **\$547**

<u>WITHOUT</u>

16 mins. 41 secs. \$100/hour machine cost 16 mins. 41 secs. x \$100/hour = \$27.81 \$27.81 per part x 100 parts = \$2,781

> 78% reduction in cost

MASTERCAM'S LATEST INNOVATIONS FROM START TO FINISHING

ACCELERATED FINISHING TECHNOLOGY IS REWRITING THE RULE BOOK

Mastercam's Accelerated Finishing[®] technology is the next leap forward in using today's innovative profile tools and delivering greater efficiency and higher machining productivity. Collaborating with the industry's best tool manufacturers, we take full advantage of these new tool designs to dramatically reduce finishing cycle times while improving surface finish.



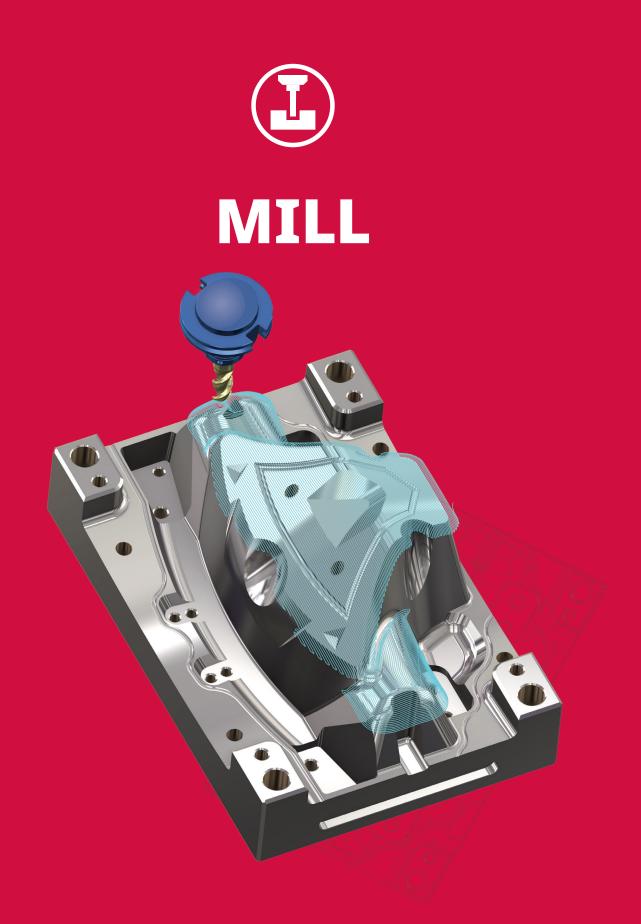
For more details and to see Accelerated Finishing in action, visit Mastercam.com/finish.



AND OUR USERS WIN

"Mastercam allows me to create finish toolpaths that utilize traditional strategies, as well as Accelerated Finishing strategies, in the same exact interface. It's easy to update an existing program to utilize this new technology, saving me time and money."

> Orvie Smith, Owner NC Solutions



Mastercam Mill is rich in features yet simple and intuitive to use.



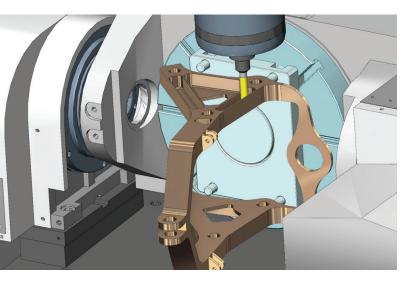
Mastercam Mill includes the option to run a corresponding **Mastercam for SOLIDWORKS**[®] environment. Standalone licenses of Mastercam for SOLIDWORKS[®] Mill and Mill 3D are also available for purchase.

INTELLIGENT MACHINING SAVES TIME AND MONEY

Mastercam's Dynamic Motion and Accelerated Finishing combine for powerful productivity gains.

For nearly a decade, Mastercam has included Dynamic Motion. Carving out massive amounts of material quickly while dramatically extending tool life, Dynamic Motion immediately saves money. Combined with vendor-specific tool support and Mastercam's expanded Accelerated Finishing, projects come off the machine faster and with higher quality than ever before.

Mastercam Mill has been shop-tested more than any CAM program in the world. You can count on Mastercam for real-world, proven results.



Mastercam's active Stock Model, Toolpath Verification, and Simulation mean increased confidence on every project. Tool library support, including CoroPlus[®] and MachiningCloud, helps you make tooling decisions fast.



Flexible, expandable, and connected.

Comprehensive toolpath strategies provide multiple approaches for programming any part, regardless of complexity. Modify any element, and toolpaths are updated, eliminating rework.

Build libraries of your favorite machining strategies. Choose customized operations, apply them to your next job, and reduce your programming time. With interfaces to digital tool libraries and other manufacturing software, Mastercam ensures you are ready for the next digital revolution. Fast, easy, productive — the way programming should be.

IT ALL ADDS UP

"The Dynamic motion takes all the material away in one simple, continuous, non-stop, uninterrupted cut. Not only does that make better parts faster, because it's not lifting, stopping, and starting again, but it also extends the life of the tool."

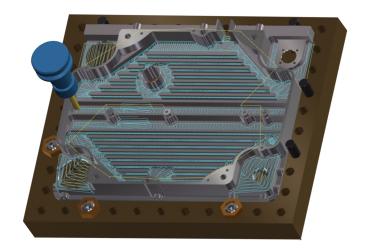
> James Nunn, Owner Machine Nunn

2D MACHINING

Serious 2D capability.

From simple to complex, Mastercam Mill's 2D machining capability delivers the tools you need to compete.

- Feature Based Machining (FBM) automatically programs prismatic solid features like drill holes, contours, and pockets.
- Easy, automated, flexible hole making.
- Precision chip control for a wide set of tools, plus specialized tool support including ISCAR[®]'s
 High Efficiency Machining (HEM) tool set and more.



Mastercam's 2D toolpaths deliver easy and optimized pocketing, contouring, drilling, facing, and much more.

Dynamic Motion powers much of our 2D solutions. It allows you to maximize your material removal rate and can lower your cycle time, while increasing the life of your cutting tools. Check out **Mastercam.com/dynamic** to learn more.



The proof of any CAM software is what comes off the machine. Mastercam is crafted to help you get the best possible finish in the shortest amount of time.

3D MACHINING

Our finish is more finished.

Mastercam provides unsurpassed control on surface cuts, delivering superior finishes and optimized cycle times.

- Mastercam's Dynamic Motion technology powers dramatically efficient roughing.
- Constant scallop machining maintains a consistent finish on sloped and flat surfaces.
- Constant-Z rest milling (remachining) identifies and machines areas needing a smaller tool.
- **Hybrid finishing** creates a single toolpath that changes cut methods as the slope changes.
- **Pencil tracing** walks a tool along the intersection of surfaces to clean out hard-to-reach areas.

Cut multiple surfaces, solid models, and STL data — our refined 3D toolpaths give you a smooth, precision finish to please even your toughest customers.

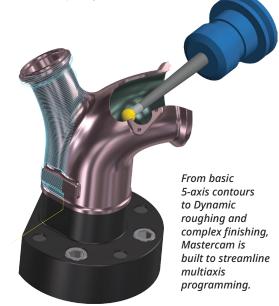
MULTIAXIS MACHINING

Complexity simplified.

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 machining over multisurface floors.
- Automatic 3+2 roughing creates a single multiplane roughing toolpath for an entire part.
- Advanced gouge checking, a "safe zone" around the part, and safe linking between operations .
- Fast, simple 5-axis trimming and stock-aware drilling.
- Ability to create full 5-axis motion from a **3-axis toolpath**.



MASTERCAM'S SPECIALIZED ADD-ONS

Often, that one additional CAD or CAM tool makes a specific job easier, faster, and more profitable. If you need very specialized options to precisely match your customer, your workflow, or your products, Mastercam Add-Ons can help.



Port Expert

Create precision engine cylinder head porting toolpaths on surface or solid data, while minimizing unnecessary motion.



Blade Expert

Highly efficient toolpaths for multibladed parts, delivering superior blades, splitters, floors, and fillets.



ProDrill

Automatically detect, group, and apply drill strategies to large amounts of holes, and automatically create tool definitions from existing geometry.



5-Axis Curve Machining

This targeted, powerful, multiaxis technique adds extra flexibility to your milling; can be upgraded to the full Multiaxis product.



Mastercam Productivity+™

Brings Renishaw[®] in-process probing and inspection to your Mastercam programs. Easily set up, validate, and even make inprocess 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.



Mastercam Lathe lets you move the same part file between milling and turning operations with ease and confidence.



Mastercam Lathe includes the option to run a corresponding Mastercam for SOLIDWORKS[®] environment. Standalone licenses of Mastercam for SOLIDWORKS[®] Lathe are also available for purchase.

POWERFUL, FLEXIBLE TOOLS FOR TURNING

A set of tools that streamlines your entire process.

From importing CAD files to Dynamic roughing and precision finishing, Mastercam Lathe gives you a variety of strategies to turn parts with greater efficiency and productivity.

Efficient programming, designed for modern manufacturing.

Mastercam Lathe delivers a set of easy-to-use, 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 ensures your parts are done right the first time.

Select lathes offer expanded job setup, part transfer, and programming options.

SAVE TIME AND MONEY

100 Hastelloy parts cut with and without Dynamic toolpaths.

5 hours

12.5 inserts

per part

5 hours x \$100/

hour

= \$500

12.5 inserts @ \$25

= \$312.50

<u>WITH</u>

40 minutes

1.5 inserts per part

40 mins. x \$100/hour = \$66

1.5 inserts @ \$25 = \$37.50

\$103.50 per part x 100 parts = **\$10,350**

<u>WITHOUT</u>

Cycle time and cost reduction of 87%

Fast, easy turning.

- Program in a few clicks with **Quick Toolpaths**.
- Complete threading including custom thread forms.
- Grooving with multiple depth cuts, peck motion, and full-radius plunge turning.
- Intelligent ID, OD, face roughing, and finishing.
- Full milling support available for machines with live tooling or C and Y axes.

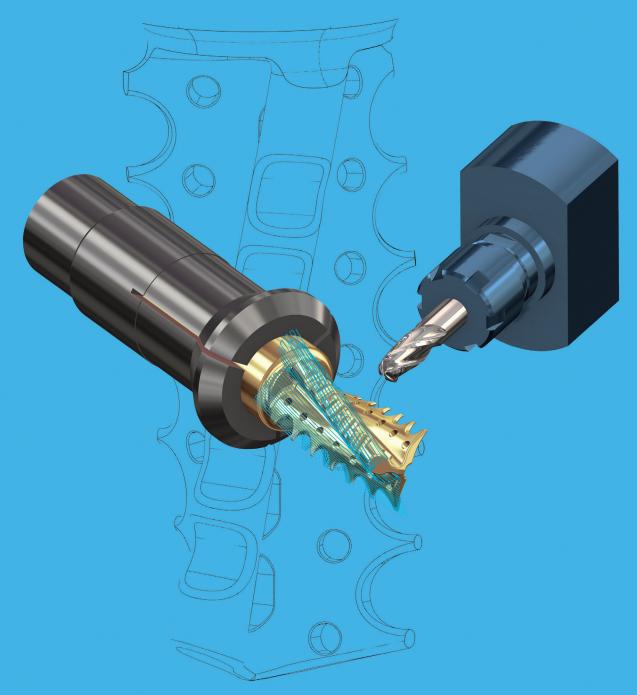
Safe machine and cut control.

- · Chuck, part steady rest, and tailstock detection.
- Automatic gouge checking on the tool's front and back.
- Control chip breakage on difficult-to-machine materials.
- Full collet and solid jaw support.
- Expanded job setup, part transfer, and programming options on select lathes.

\$812.50 per part x 100 parts = **\$81,250**



SWISS SOLUTIONS



Use the intuitive Mastercam platform to drive Swiss-style machines with powerful accuracy.

CUSTOMIZED, BUNDLED TECHNOLOGY

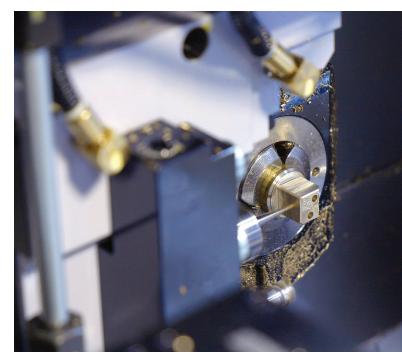
Consolidated software can standardize your shop.

You no longer need a separate software package for Swiss machines — something programmers and machinists appreciate.

Our Swiss machining solutions combine Mastercam Mill and Mastercam Lathe with specialized post processors. This configuration adds machine-specific controls inside the Mastercam interface, delivering accurate G-code for a wide variety of Swiss machines.

The solution provides customized parameters directly within Mastercam for:

- Lathe stock advance.
- Specific machine setup parameters.
- Expandable custom machine options.
- User-specified options.



Mastercam's industry-leading milling and turning power combine to deliver efficient, precise Swiss programming.



Machine-specific options within Mastercam ensure you have precise control and solid code.

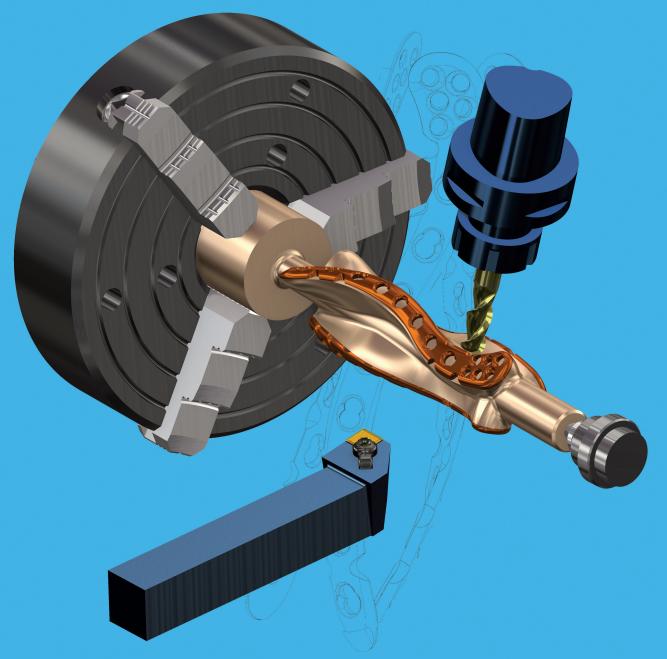
Support an array of Swiss machines with the ease of Mastercam.

Mastercam Swiss Solutions cover gang-style machines and limited gang-turret and B-axis machines. Optimized post processors are available for machines from manufacturers including:

- Star
- HanwhaGanesh
- Tsugami
- Citizen
- Nexturn
- Swistek
- DMG MORI



MILL-TURN



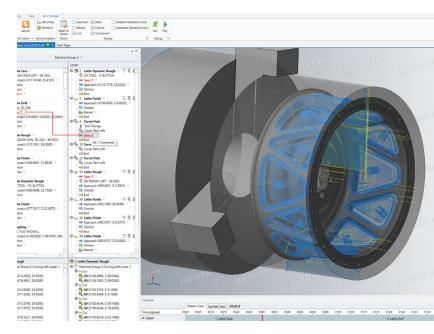
Automate your complex programs for high-powered, multitasking machining centers. Program it right the first time, every time.

SIMPLIFY COMPLEX MACHINING

Mastercam Mill-Turn simplifies today's high-powered, multistream machining centers.

With Mastercam, your workflow is efficient. Choose your machine, and Mastercam Mill-Turn automates part transfers, tool planes, stock definition, and setup. Then apply your toolpaths, quickly synchronize them, verify your project with simulation, and post your code. Changes along the way are fast and easy — the way programming should be.

Mill-Turn's Sync Manager is a user-friendly way to optimize part cycle times and manage interactions between toolpath operations. Easily navigate our Gantt-style timeline and vertical stream interface to coordinate operations and track cycle times.



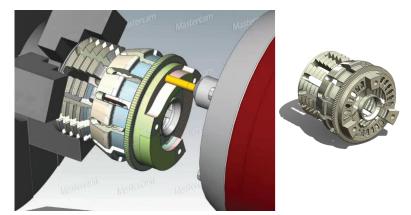
Fast, flexible setup, synchronization, and simulation combine to help you get the most out of your mill-turn machines.

Get more out of your machines with Machine Simulation.

Machine Simulation provides visual verification and assurance that the interaction and syncing between operations performs exactly as you planned. Validate against potential collisions and track cycle time estimates to achieve maximum efficiency.

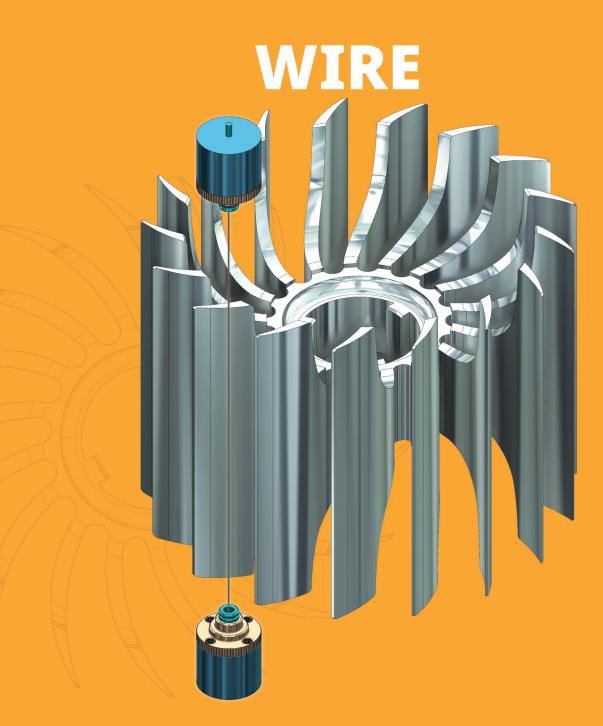
Avoid mistakes. Save time and money.

All machine components, workholding, tailstock, tools, and parts are simulated from the safety of your desktop, ensuring a safe and secure machining experience. You can identify potential collisions, see your cutting motion, and explore ways to optimize your processes with simulation. View all streams and statistics of the entire machining process with the capability to jump to any point in the process with the click of a button.



Get the most from your machine with multistation and halfindex tool support.





Mastercam Wire delivers powerful, comprehensive wirepaths in a streamlined, easy-to-use interface.

MASTERCAM CONTROL FOR WIRE EDM

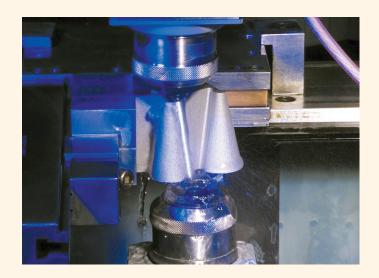
Designed for efficiency.

Mastercam Wire lets you move a single part file between machines, saving time and avoiding 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.

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



Having the best software is only one of many ingredients for success.

A global community of Mastercam users, experts, educators, and enthusiasts helps you get the most from your investment. Mastercam Resellers bring years of experience, helping to ensure that you are getting the most practical and comprehensive support in the industry.

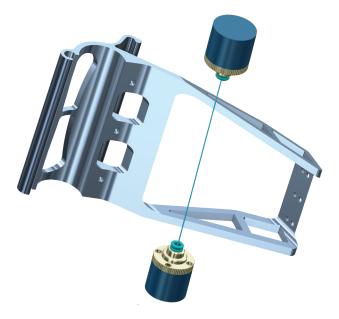
Machine support is available for Mitsubishi, Sodick, Makino, AgieCharmilles, and many others.

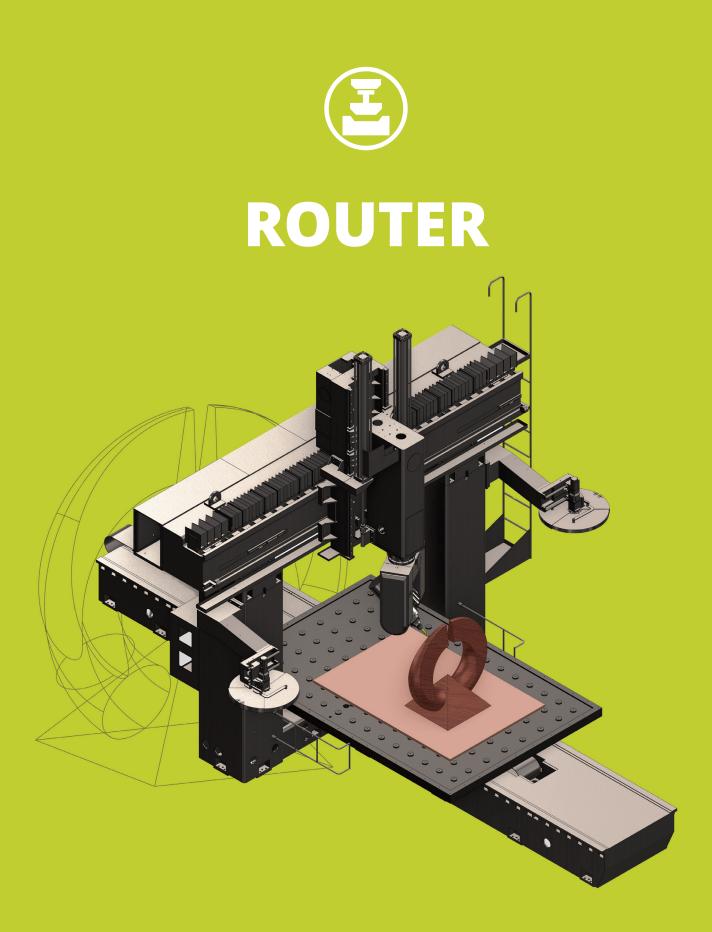
Expand your shop's capabilities.

For basic 2-axis contouring and complex 4-axis motion, you can be 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.





Mastercam Router brings complex routing functionality with an easy-to-use interface.



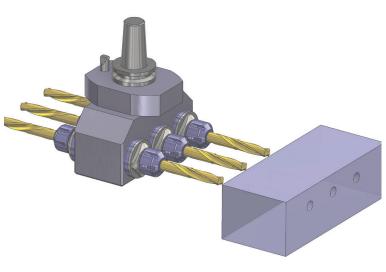
Mastercam Router and Router 3D include the option to run a corresponding Mastercam for SOLIDWORKS® environment.

FLEXIBILITY AND CONTROL

Mastercam Router offers solutions for all your 2D, 3D, or multiaxis challenges from wood to composites.

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 and apply them to new models.

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



Mastercam Router streamlines multiple tool programming including block drills and aggregate heads.



A comprehensive package of powerful tools.

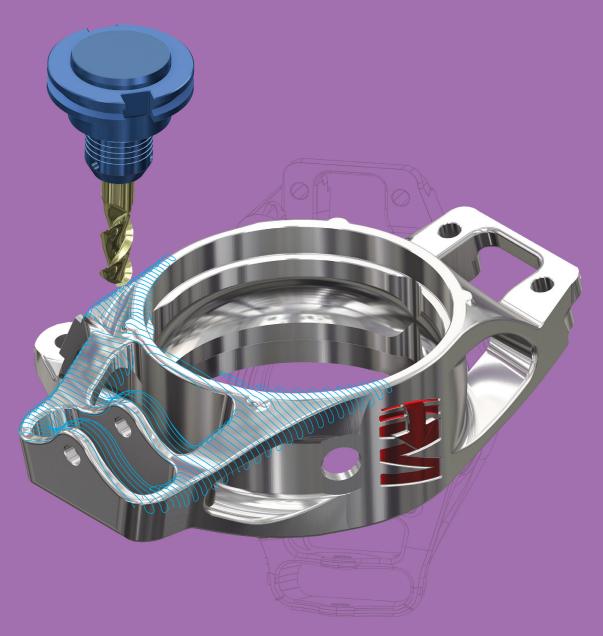
2D machining can range from simple to very complex. Mastercam Router delivers powerful 2D tools from contouring, pocketing, and drilling to automated, feature-based, solid model programming.

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

Mastercam's multiaxis capabilities give you complete control over the three crucial elements of multiaxis machining: cut pattern, tool axis control, and collision avoidance.



MASTERCAM for SOLIDWORKS®



Mastercam for SOLIDWORKS[®] combines the world's leading modeling software with the world's most widely used CAM software.



Mastercam Mill, Mill 3D, Lathe, Router, and Router 3D **include** the option to run a corresponding Mastercam for SOLIDWORKS[®] environment. **Standalone** licenses of Mastercam for SOLIDWORKS[®] Mill, Mill 3D, and Lathe products are also available for purchase.

SOLIDWORKS USERS FEEL AT EASE WITH MASTERCAM

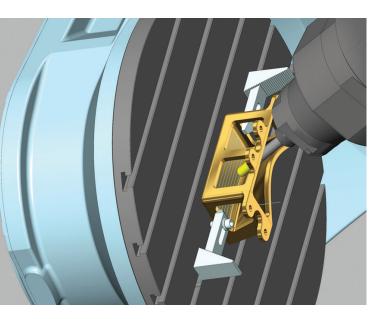
Design parts and drive your router, mill, or lathe, with ease and precision for 2D, 3D, and multiaxis machining.



With Mastercam toolpaths integrated directly within the SOLIDWORKS environment, the toolpaths are applied directly to the part or assembly. Intelligent use of design tables

and multiple configurations makes working with families of parts easy.

As a Certified Gold Product, Mastercam for SOLIDWORKS delivers the absolute best in 2- through 5-axis milling, routing, and turning CAD/CAM integration.



Mastercam's active Stock Model, Toolpath Verification, and Simulation mean increased confidence on every project. Tool library support, including CoroPlus[®] and MachiningCloud, helps you make tooling decisions fast.

For more information, see the pages about Mastercam Mill, Mastercam Router, and Mastercam Lathe.



Flexible and expandable.

No matter how complex a part, with toolpath associativity, any modification to the job means the toolpaths are updated immediately. You can also build a library of your favorite machining strategies, apply them to a part, and Mastercam helps adapt them to the new model. Because Mastercam for SOLIDWORKS is a fully integrated SOLIDWORKS Certified Gold Product, it's fast, easy, and productive — the way programming should be.

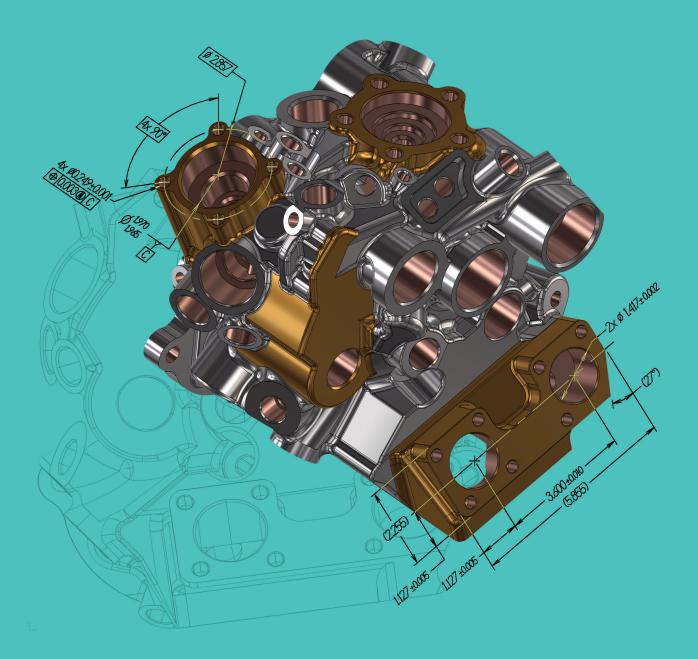
TIME AND MONEY

"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.



DESIGN



Streamlined CAD makes design work easier than ever.

MODELING AND PREP TOOLS TO GET YOUR PARTS ON AND OFF THE MACHINE QUICKLY

Whether you're bringing in a file from an outside CAD package or designing one yourself, Mastercam's powerful, easy-to-use CAD engine gives you control over the final details of even the most complex jobs.



Work with your existing CAD files.

Mastercam helps to preserve design intent with Model Based Definition (MBD) support and acceptance of varied file formats. These include IGES, Parasolid[®], SAT (ACIS solids), AutoCAD[®] (DXF, DWG, and Inventor[™] files), SOLIDWORKS[®] (including history tree), Solid Edge[®], SpaceClaim, STEP, STL, and more. Add-On translators are available for Siemens NX, CATIA[™], Pro/E (PTC Creo), and more.

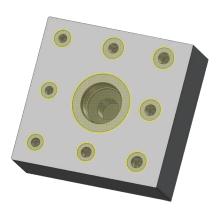
Whether you are prepping customer files...

Getting a part file from an outside source can pose unique challenges. You might need to repair a surface, work with a mesh, cap or hide a feature, create an electrode, or just make sure your fixtures are represented on the part. Mastercam includes a powerful set of model 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 machining process, fast.

...or designing your parts 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 to surface and solid modeling. A true hybrid modeling system, Mastercam lets you create, combine, and machine whichever CAD geometry suits your needs.

Name: 0	Custom		
Target:	olid		
Plane Ori	entation		
Position			
Template			
Hole Styl	e		
Туре:	Custom		
Top			
Top 69.85	0.381	Bottom 69.85	Taper 0.0
	0.381		
69.85	0.381 8 3.3528	69.85	0.0
69.85 49.834	0.381 8 3.3528 04 0.20652	69.85 48.03804	0.0 30.0
69.85 49.834 48.038	0.381 8 3.3528 04 0.20652 15.49068	69.85 48.03804 47.625	0.0 30.0 90.0
69.85 49.834 48.038 47.625	0.381 8 3.3528 04 0.20652 15.49068 6 4.0894	69.85 48.03804 47.625 47.625	0.0 30.0 90.0 0.0
69.85 49.834 48.038 47.625 45.567	0.381 8 3.3528 04 0.20652 15.49068 6 4.0894	69.85 48.03804 47.625 47.625 45.5676	0.0 30.0 90.0 0.0 0.0



Automatically identify complex hole geometry including intersecting and non-conventional holes.

THE MASTERCAM MAINTENANCE ADVANTAGE



Maintain Your Competitive Edge

Mastercam users appreciate the value that top-of-the-line CAD/CAM delivers. Now you can enhance that value by making sure your Mastercam software is always up-to-the-minute, and your shop always has the latest tools to keep you ahead of the competition.

Plus, purchasing updates is no longer a budgetary variable. Our Maintenance Program allows you to plan ahead and budget your expenditures on an annual basis. New software is available to you immediately upon release, so you don't have to wait until your next budget is approved to gain the benefits of the latest productivity enhancements in Mastercam.

Key Features

- Maintenance customers receive prioritized technical support.
- Major releases are made available to customers with active Maintenance at no additional charge.
- New software and updates are delivered to Maintenance customers first.
- Maintenance customers have early access to brand new features that are pre-released before the next major release.
- Maintenance customers can participate in Mastercam Beta testing.
- Special features on Mastercam.com are made available to Maintenance customers only, including the Mastercam Tech Exchange.
- Exclusive content for Maintenance customers is available on Mastercam University.



CONNECTED CAM FOR A CONNECTED WORLD

Depending on whom you talk to, Industry 4.0 is either coming or already here. But there is little debate that harnessing data is the next step forward. Manufacturers around the world are using data to make faster, better decisions, reduce bottlenecks, and solve problems.

Mastercam is helping to lead the way with an open platform and premier partnerships to create new synergies among everything from paperless workflow and reverse engineering to digital tool management and robotics. These insights — plus the world's largest network of CAM support provide the fuel you need to increase connectivity for increased productivity.

SHAPING THE FUTURE OF MANUFACTURING



Our commitment to the needs of industry includes support for educators and numerous efforts to attract students to careers in manufacturing. Our Educational Suite is supported by a wide variety of curriculum and resources for educators.

We also sponsor several programs and competitions to expand opportunities in education for students to build skills and get excited about manufacturing technology.

With more installed seats in industry and education than any other CAM software, Mastercam is the best choice for schools in search of support and real solutions to help students bridge the skills gap and begin rewarding careers in manufacturing.

For details, visit mastercam.com/support/education-resources.

TOOLS TO KEEP YOURSELF COMPETITIVE



Mastercam University®

Online, video-based training developed by CNC Software, Inc. and trusted partners. Sharpen your skills on your own schedule, use it to bolster your resume, and get started on the path to Mastercam Certification — with the same training used by corporate staffers and Mastercam Resellers. Mastercam University is easy to use, gives you real-world training applications, and covers all levels of Mastercam skills from basic to advanced.

University.Mastercam.com



Mastercam Training and Support

CAD/CAM is a support-intensive business. We understand that our users require comprehensive training options to get started with Mastercam and then to stay current with the latest advancements.

To get the best training, you need flexible options, and the strength of the Mastercam community means our users have access to a global network of excellent opportunities for training.

Corporate Training:

- Mastercam University offers online training courses with videobased instruction in a variety of CAD/CAM disciplines.
- In-house training events are also held at CNC Software, Inc. headquarters throughout the year. These are listed on the corporate events calendar on Mastercam.com.
- PDF tutorials and the Mastercam Knowledge Base are accessible via **Mastercam.com**.

Mastercam Reseller Training:

• Your local Reseller is the best source of training opportunities in your area. More than 115 Resellers in 100 countries offer Mastercam training.

Third-Party Training:

• As the most widely used CAM software, Mastercam is supported by a multitude of training options available from official Mastercam training partners.

Mastercam Certification



If you are looking to set yourself apart as a skilled Mastercam programmer in the increasingly competitive job market, Mastercam Certification is the answer. Your path to Mastercam Certification begins at Mastercam University, where you will find professionally designed certifications for select Mastercam products. With certified Mastercam credentials, you can advance your programming skills and earn the competitive advantage you seek.





WE SHAPE THE FUTURE.

Do you have what it takes? Tell your story at MastersofCAM.com.

For more information, contact a local Mastercam expert at Mastercam.com/Resellers

About Us

CNC Software, Inc. provides state-of-the-art software tools for CAD/CAM manufacturing markets. Our single focus is to provide superior software products based on our users' needs to solve simple to complex design and machining problems.

CNC Software, Inc. 671 Old Post Road Tolland, CT 06084



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