



Third Quarter 2009

# Mastercam<sup>®</sup> Notes

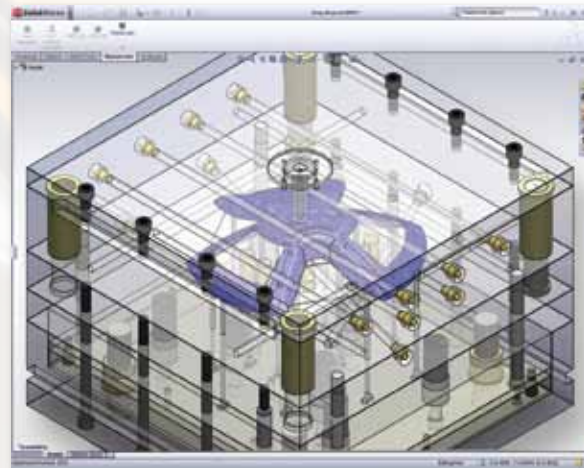
Customer Newsletter

## Mastercam<sup>®</sup> X4 for SolidWorks<sup>®</sup> To Be Released

CNC Software is proud to introduce the latest in its line of powerful Mastercam machining software – fully integrated CAM that runs seamlessly within SolidWorks.

Mastercam X4 for SolidWorks brings the world's leading modeling software together with the world's most widely-used CAM software. This means users can now program their parts directly within SolidWorks using the toolpaths and machining strategies preferred by shops around the world.

This issue of *Mastercam Notes* focuses on the new Mastercam for SolidWorks product by explaining exactly what it is, describing the process, and backing it up with a few customer testimonials. We hope you find this new product as exciting for your shop as we do!



Mold design courtesy of R&B Mold and Design.

### Product Highlights



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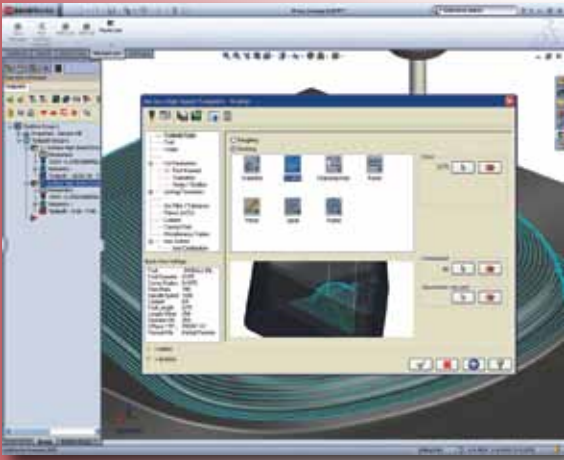
# MILL

## What Exactly Is Mastercam for SolidWorks?

Mastercam for SolidWorks offers many benefits to both the Mastercam and SolidWorks communities alike. We begin our in-depth look at Mastercam for SolidWorks by describing these benefits, and then go on to explain the process of using the product.

### Benefits of Mastercam for SolidWorks:

- Mastercam users will recognize the shop-tested parameter screens and processes. They will be able to jump right into Mastercam for SolidWorks and immediately feel familiar with it.
- SolidWorks users will feel at ease with the machining tree, which delivers quick access to any point in the machining process.
- When model changes occur, users can update toolpaths in seconds instead of having to reprogram the part.
- Updates for Mastercam for SolidWorks will be released on the same cycle as the other products in the Mastercam family, including enhancements to Feature Based Machining (FBM), high speed cutting, and many other sought after toolpaths.
- Users can collaborate with other SolidWorks users who are working on the same project. Even if they do not have Mastercam, both can work on the same native files.



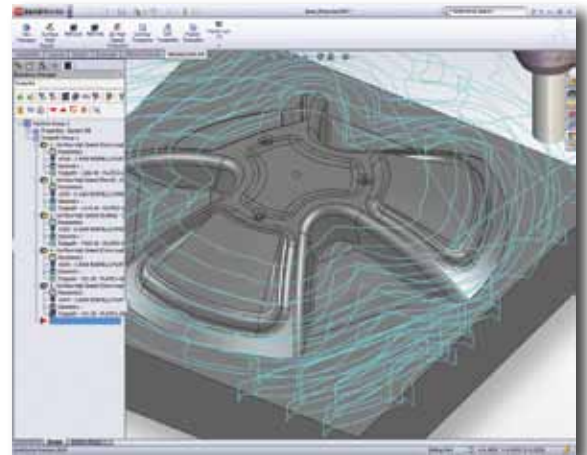
### What People Are Saying About Mastercam for SolidWorks :

#### Industrial:

*"Mastercam for SolidWorks will open up a whole new world of CNC programming for part designers."*

#### Educational:

*"From an instructional stand point, my student's learning curve was just cut in half. I'm excited for the future of product development."*





### **A Sampling of Mastercam for SolidWorks Toolpaths :**

In addition to conventional 2D programming such as pocketing and contouring, Mastercam for SolidWorks includes Feature Based Machining (FBM) to automate much of your 2D programming. By analyzing a part for specific feature types (shape, size, location of holes, and more), FBM automatically generates an effective machining strategy for the identified features. Other features include:

**Dynamic Milling** creates a constantly adapting toolpath that delivers more consistent cutting conditions and allows use of the entire tool flute length. This new technique saves cutting time while reducing wear on your tooling and machines.

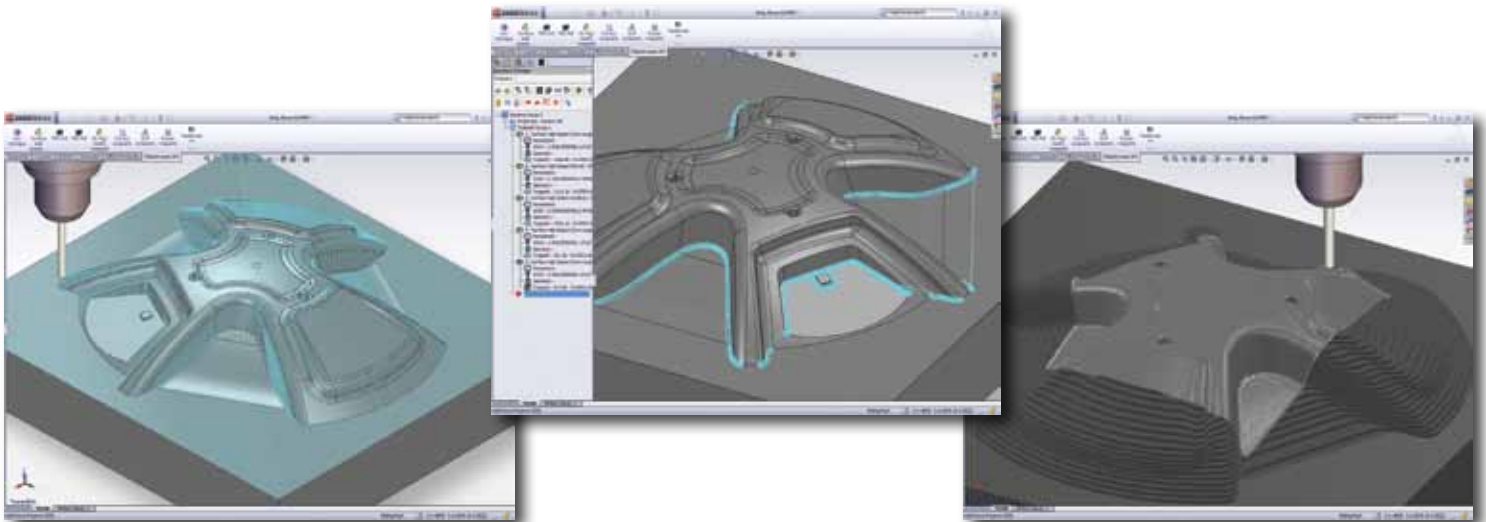
**High Speed Machining (HSM)** can deliver a faster turnaround and a superior finish. Mastercam for SolidWorks includes a suite of fully associative HSM techniques that make the most of your NC machines.

**Peel Milling** assures efficient constant climb milling between two selected contours or along a single contour. When cutting hardened material, the peel mill toolpath allows you to use the full flute depth of the cutter and avoid taking many shallow cuts. This technique avoids burying the tool by easing the cutter into and out of the material.

**Core Roughing** and **Area Clearance** efficiently remove bulk material with toolpaths tailored to your part's core or cavity.

**Pencil Machining** walks a tool along the intersection of solid faces to clean out hard-to-reach areas and details.

There are many more toolpaths in Mastercam for SolidWorks. Go to [www.MCforSW.com](http://www.MCforSW.com) for more information. ☒

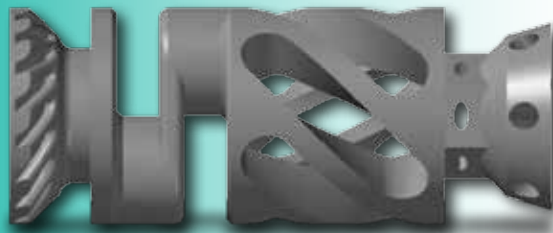




# LATHE

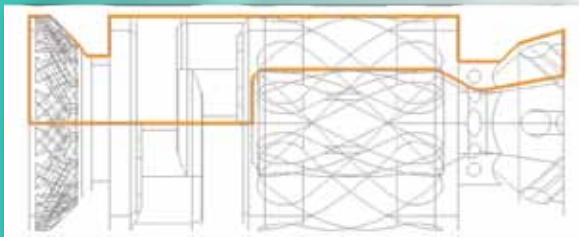
## What Else is New in Mastercam X4 Lathe?

Mastercam X4 Lathe provides many new features to make your turning jobs faster and more efficient. In our last issue, we discussed the Grooving enhancements. In this issue, we focus on the other Mastercam Lathe enhancements. For more information on Lathe, please visit [www.mastercamlathe.com](http://www.mastercamlathe.com).



### Create Turn Profile:

Our customers asked for a better solution for generating a turned profile from a solid. Mastercam X4 Lathe now includes a new function for doing this, which replaces the Solid to 2D Profile function from Mastercam X3. You can access this new function by selecting **Create/Turn Profile** from the menu. The Turn Profile functionality is a subset of the Create, Silhouette Boundary functionality.



Two methods are available for generating the turned profile:

**Spin** – Appropriate for complex, non-symmetrical geometry containing mill and turn features. The entire model is spun to generate the profile of the maximum turned envelope for the component. This option can also be used on symmetrical geometry.

**Slice** – Appropriate for symmetrical, revolved geometry. A simple slice is taken through the model.

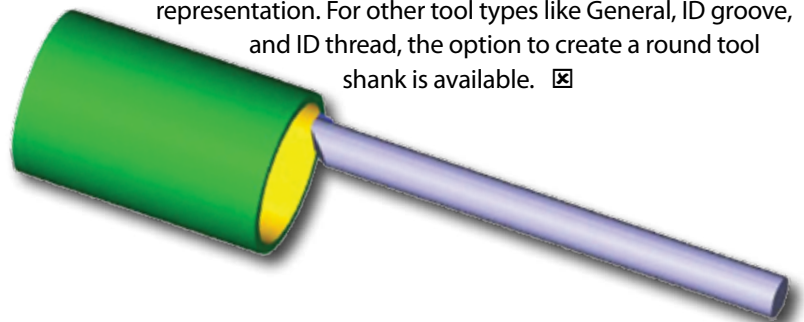
### Feed and Speed Settings for Finish Passes:

New parameters allow you to set speeds and feed rates specifically for finish groove passes, making it easier to produce your desired finish.



### Round Boring Bar Display in Verify:

Mastercam X4 now shows round boring bars in Verify. This display is a simplified representation of round tools, including boring bars. Collision checking is performed in the background against the 2D profile as always. All boring bar-type tools, including any custom boring bars, are now created with the new, simplified round representation. For other tool types like General, ID groove, and ID thread, the option to create a round tool shank is available.



# WIRE

## New Power Libraries in Mastercam X4 Wire

Mastercam now has additional Wire power libraries available that are not supplied in the Mastercam installation.

The following power libraries are available:

### Mitsubishi FA-S Advance Series Machining Conditions - (Metric)

The Mitsubishi FA-S Advance Series Power Libraries (Metric).zip contains the data from the Mitsubishi FA-S Advance Series – Machining Characteristics Data Book (Version 1.0 : BQN-W- 70538\*).

### Mitsubishi FA-P Series Machining Conditions - (Inch)

The Mitsubishi FA-P Series Power Libraries (Inch).zip contains the data from the Mitsubishi FA-P Series – Machining Characteristics Data tables.

### Makino SP43, SP64 Series Machining Conditions - (Inch)

The Makino (SP43, SP64) Power Libraries.zip contains the data from the Makino SP43, SP64 Instruction Manual – Machining Conditions (Ver. 005.1 - Inch). And the related Makino – Plus Passes.zip contains POWER libraries with the “+1 Finish” machining conditions for the SP43, SP64 machines.

To request these files, please contact your local Mastercam Reseller. ☒



To see Mastercam Lathe in action, please visit [www.mastercam.com/Multimedia/MachiningVideos/](http://www.mastercam.com/Multimedia/MachiningVideos/) and watch the *Mastercam Turns a Golden Egg* video. This video showcases Mastercam Lathe toolpaths such as canned cycle roughing, grooving, finish contouring, and much more.

Learn  
**Mastercam X<sup>4</sup>**

Comprehensive online training and certification for Mastercam

\*Our subscription includes Mill, Lathe, Router, Art and Solids

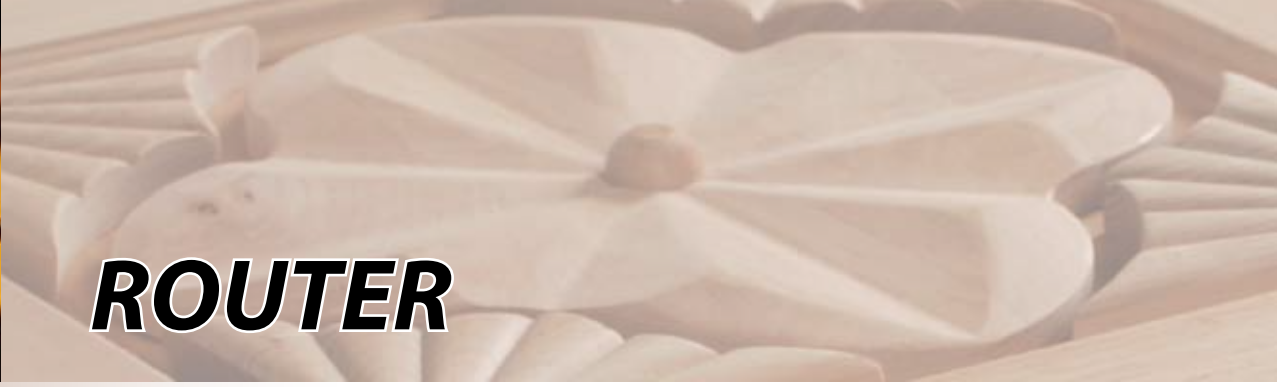
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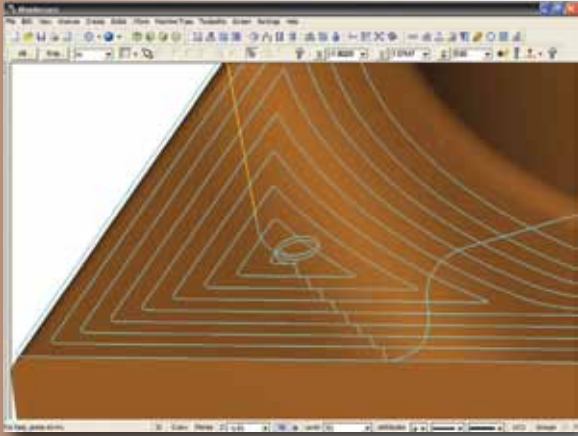
CAD/CAM based off-line programming software for 6-axis robots.

In-House Solutions  
**Mastercam X<sup>4</sup>**  
[robotmaster@inhousesolutions.com](http://robotmaster@inhousesolutions.com)



# ROUTER

## High Speed Machining with Router



**Q** : How can I prevent burn marks on my wood?

**A** : Mastercam Router users can also benefit from High Speed Machining technology. Some cutting strategies in the traditional pocketing toolpath have sharp corners or “stopping stops” along the generated toolpath. This means the tool comes to a stop in one direction, and then starts feeding in another direction. This leaves a burn mark on your material. The new 2D High Speed Machining technology eliminates this problem by making rounded corners and looping paths along the toolpath that keep the tool moving around the part without leaving any burn marks. ☒

## Student Shines with Mastercam Router

The 2009 Fresh Wood Student Competition was in full swing at the AWFS Show in July. It highlighted outstanding construction and design achievements by students from the best high school and post-secondary woodworking programs in North America.

Leah Kenttamaa-Squires from Purdue University, took home the top honor in the post-secondary category. Leah made an intricate floor lamp featuring a beautiful tree-and-bird motif with an Eastern theme. Lit from the inside, the lamp even features a subtle red color scheme on the blossoms. We'd like to congratulate Leah on her amazing and artistic use of Mastercam! ☒

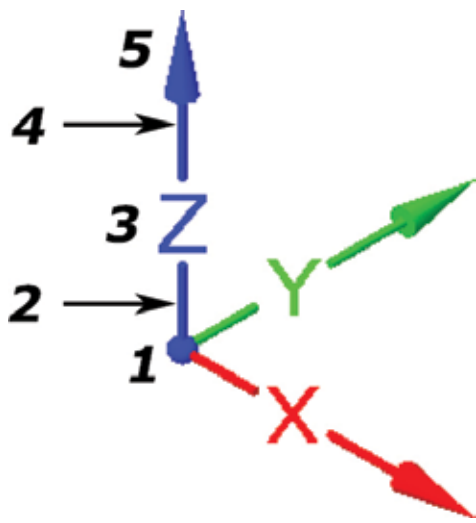


# DESIGN

## An In-Depth Look at Dynamic Planes

Dynamic planes provide a new method for defining construction planes (Cplanes), tool planes (Tplanes), and Work Coordinate System (WCS) in Mastercam X4. You can now define a plane using an interactive graphical gnomon to establish the plane's origin and orientation.

In dynamic planes, a unique gnomon with position-sensitive functionality provides control. The gnomon is made of an Axis Origin and three axes, each consisting of a First Leg, Axis Label, Second Leg, and Axis Arrowhead. Each piece has its own functionality. Where you click the gnomon determines what happens.



**Axis Origin (1)** – Click here to place the origin of the gnomon in 3D space.

**First Leg (2)** – Click here to move the gnomon along the selected axis.

**Axis Label (3)** – Click here to rotate around a perpendicular axis.

**Second Leg (4)** – Click here to rotate around an alternate perpendicular axis.

**Axis Arrowhead (5)** – Click here to align the gnomon to existing geometry.

For more information and in-depth descriptions of dynamic planes, please refer to the *What's New in Mastercam.pdf* file, the *Mastercam X4 Quick Start* manual, or Mastercam Help. All of this documentation is included in the Mastercam X4 install. ☒

### Please Take Our Survey

We're conducting a survey to get your impressions of the Mastercam X4 release process. To participate, please visit:

<http://tinyurl.com/mcamsurvey>

Three participants will be selected to win their choice of a 4GB Mastercam USB drive or a Mastercam polo shirt. We look forward to receiving your feedback!

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Visit ICAM at the Mastercam Business Partner Forum!

See Demo [www.icam.com/mastercam](http://www.icam.com/mastercam)

# ADD-ONS

## Mastercam's Business Partners-A Quick Glance

Mastercam is fortunate to have a wealth of products and services to support our product and our exceptional Reseller network. Here is a quick glance at some of our partners, what they offer, and how they can benefit your shop.



**Cam-Post V18** from ICAM is independent single source NC post-processing development software supporting Mastercam, as well as all major CAD/CAM PLM systems, CNC controllers, and machine tools. Virtual Machine V18 is a comprehensive CNC machine tool simulator that enables NC programmers to graphically simulate and test programs, easily and automatically, against collisions and over-travel during post-processing. [www.icam.com](http://www.icam.com)



**Moldplus** is the solution for model-makers, pattern-makers, and anyone involved in surface or solid modeling. Moldplus Standard consists of surface trimming and extension tools, as well as mold design tools. Moldplus Professional includes tools for untrimming surfaces, healing/fixing surfaces, and more. Moldplus Super Trim has all the trimming and untrimming features of Moldplus and can heal/fix bad surfaces or manipulate surface trim boundaries and patch complex holes. ProDrill is feature-based drilling for Mastercam. Repetitive drilling tasks that previously took hours can now be done in a few clicks. [www.moldplus.com](http://www.moldplus.com)



**hybridpath**, from JBM, is an add-on that enhances Mastercam toolpaths. Hybrid Roughing is a highly efficient, automatic toolpath calculation for each pre-selected tool. Hybrid Zmill uses a calculation method which supports both steep & shallow slopes. Multi-passes are available in normal line direction for Hybrid Restmill. Hybridpath can produce a beautiful finish even with complex 3D models. For more information, please contact Jon Liang at [jon@jbm.co.jp](mailto:jon@jbm.co.jp).



**Robotmaster** seamlessly integrates robot programming, simulation, and code generation inside Mastercam, delivering quicker robot programming. Robotmaster is ideal for all applications including trimming, 3D machining, deburring, polishing, dispensing, grinding, and more. [www.robotmaster.com](http://www.robotmaster.com)



**Verisurf MDB** (Model Based Definition) provides the ability to create fully associative dimensions and tolerance callouts so that users can input, display, print, and apply these critical elements to manufacturing and inspection. MBD virtually eliminates the need for blueprints since all information necessary for part alignment, inspection, and manufacturing is embedded directly in the model. Verisurf Reverse is a powerful software tool used for processing 3D scan data to produce usable manufacturing models. It brings state-of-the-art technology to the engineering process of precisely measuring a physical part or artifact in order to produce a digital 3D model. You can manage literally millions of points right in Mastercam, and then reverse design into a mesh or surface model that can be directly used for manufacturing or inspection. [www.verisurf.com](http://www.verisurf.com)



**NCX2Check** by Camaix is G-code based machine simulation. SyncLathe is a simple tool for multi-turret synchronization. [www.camaix.com](http://www.camaix.com)

## camInstructor

**CamInstructor** has training books and videos. Each book includes a CD with videos showing how to complete each chapter in the book. Mastercam Demo software is also included. All written and video training materials are also available online as an alternative to purchasing printed materials. Online training courses are perfect for customers wanting to learn Mastercam in the comfort of their own home or offices. Courses are monitored and evaluation is provided. [www.caminstructor.com](http://www.caminstructor.com)



**WinTool 2009** is an integrated tool management solution for CNC manufacturing with WinTool-Mastercam interface (including tool library, technology archive, 3D models, tool crib management, tool manufacturer catalogs). For more information, please contact Marc Holthusizen at [marc.holthusizen@datos.ch](mailto:marc.holthusizen@datos.ch).



**IMSpst**, from IMS, is advanced CNC postprocessing software, that transforms CAD/CAM cutter location (CLfiles) into the specific machine codes (G/M codes) required by NC machines. IMSpst works seamlessly with all major CAD/CAM systems, hardware platforms, and NC machines, all in one easy to use interface. IMSverify provides a unique NC verification solution for checking the postprocessed code that will run on the machine – not simply the APT or CL file verified within the CAM system. Verification of the actual G-code that will run on the machine provides you with complete confidence that the part will be cut correctly. [www.ims-software.com](http://www.ims-software.com)

**Secrets of 5-axis Machining**, from Industrial Press, is an unbiased, no-nonsense, to the point description of 5-axis machining. It presents information that was gathered during the author's 30 years of hands-on experience in the manufacturing industry. As the only book of its kind, *Secrets of 5-Axis Machining* will demystify the subject and bring it within the reach of anyone who is interested in using this technology to its full potential. *Mastercam Mill Step-by-Step* continues to expand its publishing program beyond its bestseller, the *Machinery's Handbook* 28th Edition, with new CAD/CAM reference works, for both students and seasoned professionals, with new offerings on Mastercam X. [www.industrialpress.com](http://www.industrialpress.com)



**Mastercam Training Solutions**, from In-House Solutions, has over 25 titles spanning the Training Tutorial, Professional Courseware, Handbook, and CNC High School Curriculum product lines. Multimedia training consists of tutorial walkthroughs and intuitive training exercises. Mastercam Training Solutions is appropriate for colleges, universities, high schools, and industry. In-House Solutions also has over 25 years of experience making posts for 2 through 9+ axes machines and for any type of axis setup. Their industry expertise in multiaxis milling machines, turning centers, millturns, wire edms, and sheet metal manufacturing, combined with their robust library, makes their post processors both efficient and a good choice for your most complex NC requirements. [www.inhousesolutions.com](http://www.inhousesolutions.com)



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# ADD-ONS

## Mastercam's Business Partners-A Quick Glance (continued)



The **VoluMill Ultra-High Performance Toolpath** from Celeritive Technologies is an easy-to-use, robust toolpath engine for high speed, ultra high performance 3-axis roughing. The intuitive interface handles cavities, cores, and rest milling in hard and soft materials. It is designed for parallel processing to minimize computation time. Highly regionalized toolpath strategy establishes and maintains ideal machining conditions, dynamically adjusting the path, feeds, and depths to minimize cycle time and maximize tool life.

[www.celeritive.com](http://www.celeritive.com)

automatic slider and lifter generation, fully associative component and plate modification, and an integrated user library. SplitWorks® is an advanced splitting environment, automating the process of core and cavity separation and creation to update the inserts after any modifications.

[www.rnb.com.il](http://www.rnb.com.il)



**WireFreeCNC** is machine communications made easy! Ethernet, RS232, BTR, USB, PCMCIA, etc. Regardless of your media, they have the right software and hardware to make the job of connecting the CNC to the computer network a breeze. Wireless connection also allows factory metrics to be gathered and displayed in "real-time" via a dashboard or historically with multiple reports to show overall equipment effectiveness.

[www.wirefreecnc.com](http://www.wirefreecnc.com) ☒



**ElectrodeWorks®**, from R&B Mold, automates all aspects of extraction, design, management, documentation, and manufacturing of EDM electrodes. Fully integrated into the SolidWorks environment, ElectrodeWorks guides you through the electrode design and production process. MoldWorks® includes over 15 commercial mold base catalogs, a wide range of standard components accessible through a component wizard, the most sophisticated self-contained Heat Exchange and Runners & Gates modules,

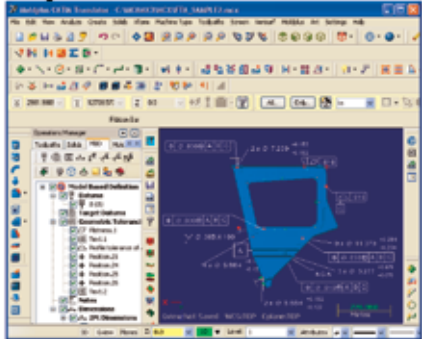
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## What's New at Mastercam University?

Mastercam University is online video training that lets you learn at your own pace. Benefit from the knowledge of expert corporate trainers that bring their extensive industrial experience and Mastercam mastery to each lesson. Courseware is delivered in a progressive order using movies to demonstrate proven industrial techniques.

Now available is the Advanced Mill Design & Toolpaths course. This is the course that takes you to the next level, from a 2D programmer to a full 3D programmer. This course teaches you how to create advanced wireframe, surface/solid models, 3D high speed toolpaths, and 4th axis/rotary applications. The course contains approximately 90 hours of online video training. Even if you think you know it all, we are sure you will learn new techniques and increase your efficiency.

For a syllabus of the course, use the following link, and then click on syllabus.

<http://tinyurl.com/mastercamu1>

A subscription to a class includes 12 weeks of lessons. After completing a class, you can download a Certificate of Completion.

You can order Advanced Mill Design & Toolpaths and other MastercamU products from your local Mastercam Reseller.

To find your local Reseller, go to <https://secure.mastercam.com/findareseller>.

Coming soon is a new Mastercam X4 for SolidWorks course, which is scheduled for completion at the end of 2009.

If you are a teacher new to MastercamU and are not quite sure how to incorporate it into your classroom, please check out the new video on our Web site explaining how you can introduce Mastercam U to your students and integrate it into your curriculum.

For more information on Mastercam University, please visit [www.mastercamu.com](http://www.mastercamu.com). ☒



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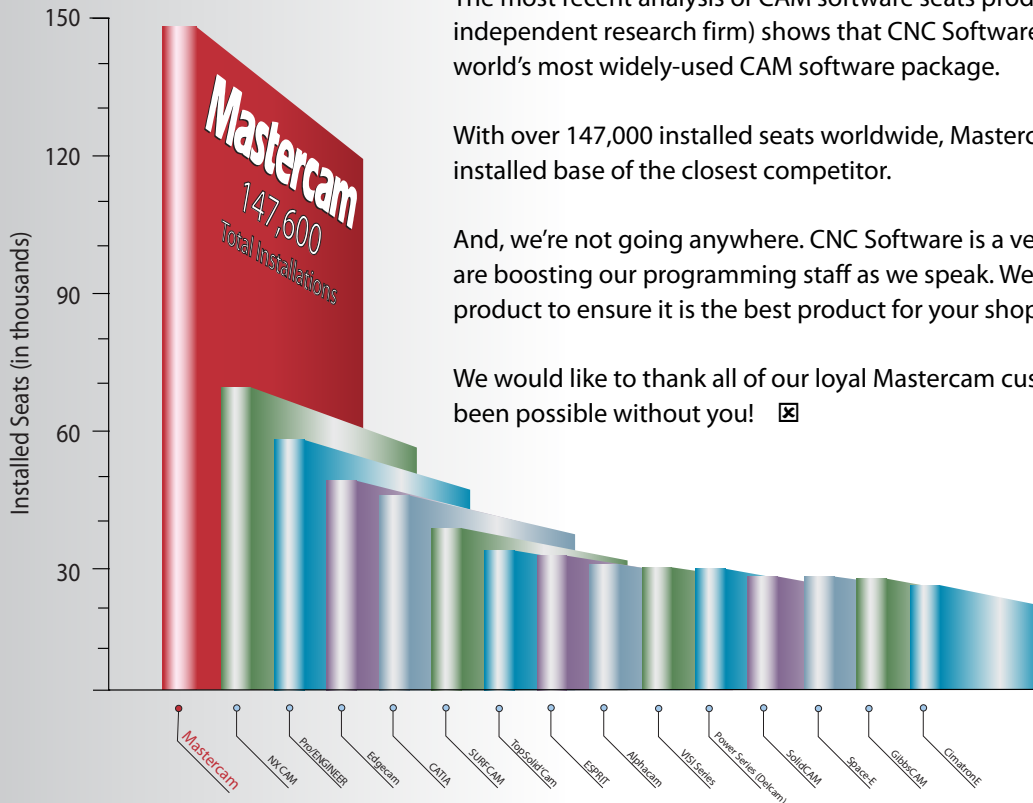
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# OTHER NEWS

## For the 15th Straight Year, Mastercam is #1 in NC Programming Worldwide



The most recent analysis of CAM software seats produced by CIMdata, Inc. (an independent research firm) shows that CNC Software's Mastercam is once again the world's most widely-used CAM software package.

With over 147,000 installed seats worldwide, Mastercam has more than twice the installed base of the closest competitor.

And, we're not going anywhere. CNC Software is a very stable company – in fact, we are boosting our programming staff as we speak. We are putting money back into the product to ensure it is the best product for your shop.

We would like to thank all of our loyal Mastercam customers – this wouldn't have been possible without you! ☒

## Mastercam Now on Twitter

We've recently decided to join the Twitter revolution. You can find us (and follow us) on Twitter at [www.twitter.com/mastercam](http://www.twitter.com/mastercam). We are hoping to tweet often and include all sorts of news on the Mastercam front. ☒





## Benefits of Mastercam Maintenance



As a Mastercam customer, you know the value that top-of-the-line CAD/CAM software brings you. With Mastercam Maintenance, you can enhance that value by making sure your software is always up-to-the-minute, and your shop always has the latest tools to keep you ahead of the competition.

The Maintenance Program is a software delivery plan designed to provide you with the most recent enhancements, the latest software tools, and the best new features. Maintenance gives you early access to many powerful new features before they are released to the general public. By the time the next major release comes out, you will already be using many of the features that your competition is just starting to learn.

Maintenance customers also receive our quarterly *Shop Talk* newsletter which is filled with the latest technical issues and solutions from Mastercam.

For more information on the Maintenance Program, please visit [www.mastercam.com/Products/Maintenance](http://www.mastercam.com/Products/Maintenance). To see a compilation of all deliverables that Maintenance customers have received to date, please visit [www.mastercam.com/value](http://www.mastercam.com/value). ☒

## X4 LIVE Rollouts

A majority of the rollouts for Mastercam X4 took place throughout the month of June, and the response has been amazing! Resellers all around the world held local rollouts for their customers and prospects, and many had to do multiple sessions because of the large turnout.



Everyone learned about the new features of Mastercam X4 including Multi-threading, Dynamic Machining, Mastercam for SolidWorks, and much more.

We hope you had a chance to experience a Mastercam X4 Rollout for yourself. If you didn't, please contact your local Mastercam Reseller for a personal demo of Mastercam X4. ☒

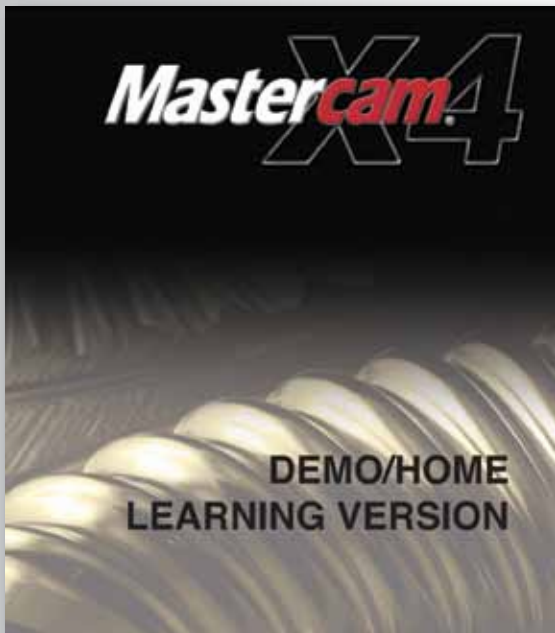
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# OTHER NEWS

## Demo/Home Learning Edition (HLE) Releases



**Are you a student who wants to practice at home?**  
**Are you a Mastercam user who wants to practice at home?**  
**Are you an NC operator who wants to learn Mastercam?**

We have had several requests over the past year to create a more usable Demo product that allows the user to save their work. Starting with the release of Mastercam X4, Demo and Student packages are being combined into a new package called Demo/Home Learning Edition (HLE). This combined package addresses the request by allowing users to save their work as EMCX files.

Here are some features of the Demo/HLE:

- No SIM or security code required.
- All Mastercam options and modules are supported except CATIA translator.
- Read MCX or EMCX files.
- Save only to EMCX format.
- No output or export (translators, MCX format, etc.).
- No post processing.

Demo/HLE gives you the chance to try out the new features of Mastercam X4 at home or to use it as a learning tool. This version is included free with any MastercamU.com class.

*Note: Demo/HLE times out after a period of time. Demo/HLE is for home use and does not replace Design LT or the Educational Suite. For more information, please contact your local Mastercam Reseller. ☒*

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 1-877-873-6867  
[www.camInstructor.com](http://www.camInstructor.com)

*"CamInstructor books and videos are the best resources we have had to date. Not only are our programmers learning more about Mastercam, they are taking less time to learn it."*

**Tavi Udrea, Training Manager**  
 Haas Automation

**CamInstructor Inc. Mastercam Partner**

**ProDrill**  
 Advanced feature based drilling for Mastercam  
 Functions on surface and Solid models!

**ProDrill Version 3 MR1 with:**

1. IMPORT COLORED TAP AND REAM FEATURES from external CAD systems,
2. Easy CUSTOM/FORM TOOL USE, OPTIMIZED TOOL SELECTION CRITERIA

and several new enhancements to cater to complex drilling jobs!!!

Automatically create and insert complex drilling geometry on Solid and 2D models. CAD system independent!!!

Complex 4 and 5 axis drilling at blinding speed!

**Rapid Return on Investment!**

ProDrill is a product of Tecnocim S.L. and Moldplus S.A.

[www.moldplus.com](http://www.moldplus.com)  
[info@moldplus.com](mailto:info@moldplus.com)

Solutions that make a difference!



## Upcoming Mastercam Events and Trade Shows

To round out the 2009 trade show year, Mastercam will exhibit at three trade shows from October through December.

Mastercam's first appearance will be at SOUTH-TEC Advanced Productivity Expo, booth #8054, which is held at the Charlotte Convention Center, in Charlotte, NC October 6 - 8.

The last two shows of the year are some of the biggest automotive aftermarket shows in the world. November 3 - 6, the privatized and immensely popular SEMA Show will be held at the Las Vegas Convention Center in Las Vegas, NV (Booth # 24423). December 10 - 12 is the PRI (Performance Racing Industry) Trade Show at the Orange County Convention Center in Orlando, FL. Stop by to see Mastercam in action in booth #4591.



The fall show schedule includes:

October 5 - 10  
EMO  
Milan, Italy  
Booth # TBA

November 19-21  
ACTE (Educational)  
Nashville, TN  
Booth #441

October 6 - 8  
SOUTH-TEC  
Charlotte, NC  
Booth #8054

December 2 - 5  
EUROMOLD  
Frankfurt, Germany  
Booth # TBA

November 3 - 6  
SEMA Show  
Las Vegas, NV  
Booth #24423

December 10 - 12  
PRI  
Orlando, FL  
Booth #4591

For a comprehensive list of Mastercam's corporate shows, as well as events, seminars, user groups, and shows sponsored by our Authorized Resellers, please visit [www.mastercam.com/events](http://www.mastercam.com/events). ☒

**Mastercam**  
**X<sup>4</sup> TRAINING SOLUTIONS**

**In-House Solutions**  
800-529-5517

Available through your Authorized Mastercam Reseller  
[www.emastercam.com](http://www.emastercam.com) • [books@emastercam.com](mailto:books@emastercam.com)

## Got Parts?

There isn't a better way to show off Mastercam software than with slick, cool looking customer parts!

We are on the lookout for parts to display in our corporate Mastercam tradeshow booth.

If you have any parts that you think would look great in our booth, you could get a valuable prize for sending them to us! In addition to sending the parts, we also need you to fill out a Parts Consent Form, which you can obtain by e-mailing us at [michellen@mastercam.com](mailto:michellen@mastercam.com). And, Educational customers should contact the Educational Division at [WildestParts@mastercam.com](mailto:WildestParts@mastercam.com).

If you send us a part, you will automatically receive a Mastercam key chain. If we end up using your part at tradeshow, you will receive an iPod nano as our way of saying thank you for helping us gather parts that show off Mastercam's features and toolpaths.

If you have any questions, please e-mail [michellen@mastercam.com](mailto:michellen@mastercam.com). Send all parts and signed Parts Consent Form to:

CNC Software Inc.  
Attn: Michelle Nemeth  
671 Old Post Road  
Tolland, CT 06084



**CNC Software, Inc.**  
**Corporate Headquarters**  
671 Old Post Road  
Tolland, CT 06084 USA  
(860) 875-5006  
[mcinfo@mastercam.com](mailto:mcinfo@mastercam.com)  
[www.mastercam.com](http://www.mastercam.com)

**Educational Division**  
5717 Wollochet Dr. NW  
Gig Harbor, WA 98335  
(253) 858-6677  
[info@mastercam.edu](mailto:info@mastercam.edu)

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