The world of custom automation and the latest software is on display in this pavilion – everything you need to extract the maximum efficiency from your machine tool – optimizing your plant operations and cost efficiency.

» **East Building**
  9am to 5pm
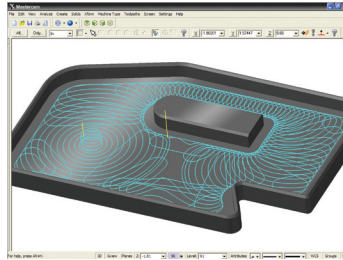
CAM CONSTANTLY ADJUSTS TOOLPATHS

Mastercam X5 constantly adjusts the toolpath to ensure the most efficient cut possible and allows use of the entire tool flute length, often eliminating the need for multiple depth cuts. New dynamic milling techniques include Dynamic Rest Mill and Dynamic Contour. Dynamic Rest Mill behaves in a manner similar to the current toolpath, only it uses dynamic milling motion instead of core mill or area mill motion for the rest operations. Dynamic Contour uses an intelligent, efficient high-speed contouring strategy to remove material along walls. It supports multi-passes and can optionally include finishing passes.

IMTS Booth E-3840
Mastercam/CNC Software Inc.
Tolland, CT
mastercam.com

CAD/CAM FOR HEALTHCARE

Delcam has introduced several specific products for the healthcare market over the last two years. These include the DentCAD and DentMILL programs for the design and manufacture of dental restorations and the OrthoModel and OrthoMill software for the development of orthotics. The company also offers special versions of its Crispin range of footwear design and manufacturing software for the production of orthopaedic footwear. The common theme with all these products is that they take existing Delcam technology and add a dedicated interface that uses imagery and terminology from the healthcare sector. This makes the software easy to learn and quick to use for healthcare professionals, even those that are not familiar with using computer-based design and manufacturing.
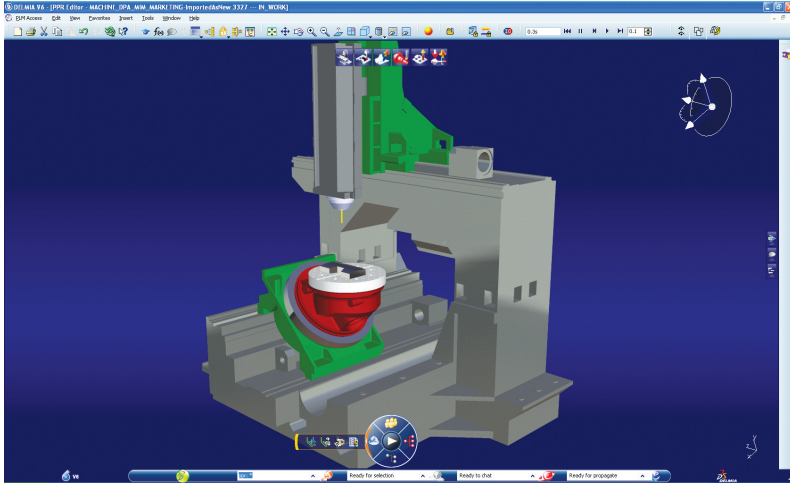

IMTS Booth E-3922
**Delcam**
Salt Lake City, UT
delcam.com
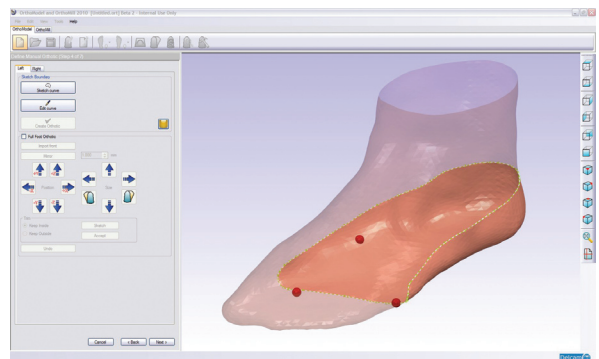
DIGITAL MANUFACTURING, PRODUCTION SOLUTIONS

One of the solutions being demonstrated is the latest generation Delmia machining software, which allows NC programmers to simulate machine tool motion based on NC toolpaths and NC codes. Users can rapidly emulate, validate, and optimize NC machine processes in a virtual environment – helping to reduce machining programming time, toolpath execution time, and tool wear. Delmia is available for 2.5-, 3-, and 5-axis machining as well as lathe programming. Other Delmia products will also be available for demonstration.

IMTS Booth E-4132
Dassault Systems
Auburn Hills, MI
3ds.com
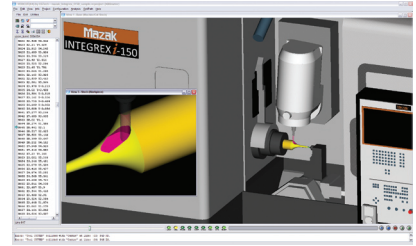
VERICUT CNC VERSION 7

Vericut is a CNC machine simulation, verification, and optimization software that enables users to eliminate the process of manually proving-out NC programs. The program also optimizes NC programs in order to both save time and produce higher quality surface finish. Vericut 7 features significant performance-improving enhancements that reduce the time required for manufacturing engineers to develop, analyze, inspect and document the CNC programming and machining process. CGTech will also be demonstrating Vericut composite applications at IMTS.

IMTS Booth E-3846
CGTech
Irvine, CA
cgtech.com

PRODUCTIVITY ENHANCING CAM SOFTWARE

DP Technology will showcase the Esprit 2011 CAM software. Esprit 2011 includes productivity-enhancing technology for CNC programmers of mills, lathes, and wire EDM machines.

Esprit is a high-performance, computer-aided manufacturing (CAM) system for a full range of machine tool applications. Esprit delivers powerful, full-spectrum programming for 2-axis to 5-axis milling, 2-axis to 22-axis turning, 2-axis to 5-axis wire EDM, multitasking mill-turn machining, B-axis machine tools, and high-speed 3-axis and 5-axis machining.
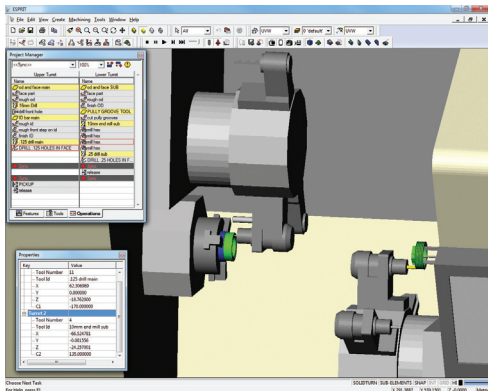
Esprit's high-performance capabilities include machining any part geometry – solid, surface, or wireframe; universal post-processing to format G-code for virtually any machine tool; and solid simulation and verification with dry runs rendered in dynamic solids for optimal part quality and consistency. Esprit is 100% pure Windows providing a comfortable and familiar user interface for maximum productivity.

IMTS Booth E-3910
Esprit/DP Technology
Camarillo, CA
dptechnology.com

CNC TRAINING SOLUTION SOFTWARE PACKAGE

SinuTrain, the Siemens package of CNC training software on CD-ROM, provides milling and turning machine operators with a high degree of practical hands-on experience prior to using the CNCs on actual machines.

It is designed to run on Windows XP operating systems. The Siemens booth will also include the 1FK7 high-inertia and 1PH8 servomotors, integrated motor spindles, linear motors and direct-drive torque motors.

IMTS Booth E-4933
Siemens
Elk Grove Village, IL
usa.siemens.com/drives

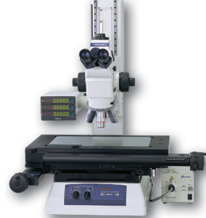## Superior Optics, Superior Results

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Mitutoyo proudly introduces a full line of measuring and materials microscopes that span diverse applications from macro stereo inspection to minute semiconductor geometry measurements. Our precision staging, incorporated with Mitutoyo designed and manufactured world renowned extra long working distance lenses, offer the optimum combination of optical performance, ergonomics, accuracy and ease of use. Visit www.mitutoyo.com or email us at microscopy@mitutoyo.com to learn how we can save you time and money with our world class optical and metrology instruments.

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Mitutoyo America Corporation
965 Corporate Boulevard
Aurora, Illinois 60502
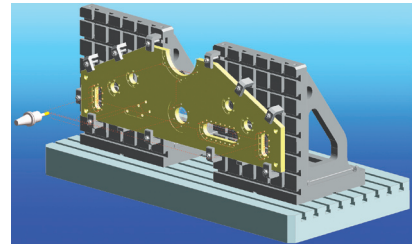1-888-MITUTOYO (1-888-648-8869)

See us at the upcoming tradeshows:
IMTS, McCormick Place, Chicago, IL
Sept 13 – 18, Booth No. E-5126
MD&M MN 2010, Minneapolis, MN
Oct 13 – 14, Booth No. 1545
ISTFA 2010, Dallas, TX
Nov 16 – 17, Booth No. 309

Precision is our Profession

CMM • VISION • FORM & FINISH • *PRECISION TOOLS & INSTRUMENTS* • DATA MANAGEMENT

AUTOMATED CAM MACHINING SOFTWARE

Edgecam 2010 R2, a powerful yet easy to use automated CAM software for solids machining. Edgecam reads native design files from all major CAD vendors, retains original design intent through Automatic Feature Recognition, and supports everything from 2-axis milling and turning to complex 3-axis to 5-axis machining along with multi-axis (single setup) mill and mill/turn machines. Additional productivity improving enhancements include performance and memory upgrades to speed up background processing.

IMTS Booth E-4030
Planit
Tuscaloosa, AL
planit.com

NEXT GENERATION LASER

The newest model available from Convergent Lasers is the CL-R pulsed Nd:YAG laser. Users of earlier model Laserdyne 780, 890, and 790 systems will be offered a turnkey retrofit package, including complete on-site installation and startup assistance. The CL-R laser provides a wide range of process flexibility. The laser combines up to 50kW peak power, with low divergence resonator optics to produce a high intensity laser spot for:

- Drilling holes up to 75mm (3") in length;
- Drilling 3mm (0.12") long holes at 10 holes/second on the fly; and
- Cutting at 300mm/min (12ipm) or to 20mm (0.8") in depth.

A long depth of focus enables deep holes to be drilled with reduced taper while special pulse-shaping techniques can be used to improve the geometrical quality of holes drilled by single laser shots on the fly.

IMTS Booth E-4747
PRIMA North America Inc
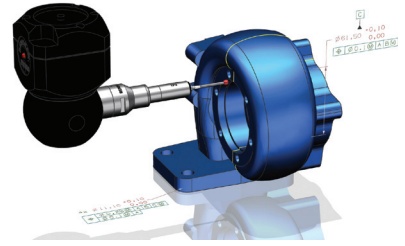Champlin, MN
prima-na.com

PART MANUFACTURING PRODUCTIVITY

The combination of the integrated CAM and CMM capabilities in NX represent one of the more sophisticated software solutions for part manufacturing. NX 7 redefines part manufacturing productivity with the introduction of two new applications that put the user in the context of a specific programming task, reducing the time needed to program complex turbo-machinery components and maximizing the efficiency of offline coordinate measuring machine programming.

IMTS Booth E-4040
Siemens PLM Software
Plano, TX
siemens.com/plm
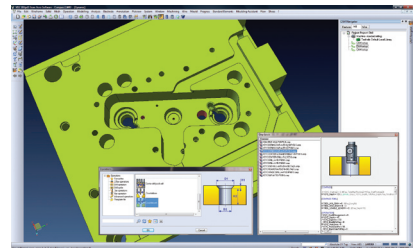
CAD/CAM/CAE SOFTWARE SOLUTIONS

VISI Modeling is the base platform for all VISI products and version 18 delivers an updated GUI with graphic sliders that allow the user to dynamically interact with the working area to push or pull features and apply other system commands. One major CAD development is the introduction of geometry deformation tools that provide a technical leap forward and delivers features such as complex spring back deformation, draft application and organic shape editing. These features will greatly benefit existing users who have to adapt customer data and they will also support more aesthetic markets such as product design or cosmetics.

IMTS Booth E-3967
Vero Software U.S.A. Inc.
Wixom, MI
veroint.com

machine motion. The software will program more complex machines and give users greater control of postprocessor creation. Improved and extended support for thread whirling is included. Machine Manager will replace the MDD Editor and will support programming and synchronization for machines with more than three flows.

IMTS Booth E-3810
Gibbs and Associates
Moorpark, CA
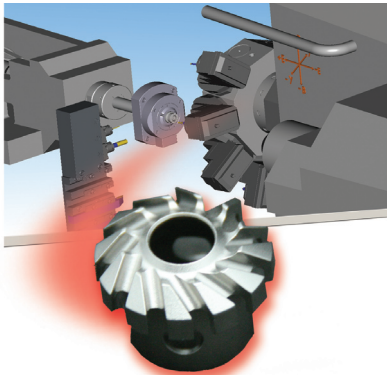gibbscam.com

NEXT GENERATION MTM

No longer based upon or restricted to lathe operations, GibbsCAM MTM (multi-task machining) has been redesigned to reduce the time and effort required to develop postprocessors, generate CNC programs and simulate

POWERFUL AUTOMATIC TOOLPATH CALCULATION

Major highlights of PartMaker Version 2011, include more powerful milling functionality, new specialist turning routines, a more flexible tooling library, improved simulation of unique machine tool architectures, and more. Also new in PartMaker Version 2011 is a specialist algorithm for automating the programming of back turning tools with multiple cutting points, angles, and radii. A unique algorithm has been developed to automatically calculate toolpaths using tools most commonly used on Swiss-type lathes.

IMTS Booth E-3922
PartMaker Inc.
Washington, PA
partmaker.com

NEXT-GENERATION ERP

Epicor Manufacturing Express Edition (Epicor Express) is the on-demand version of Epicor 9 next generation enterprise resource planning (ERP) solution. Based on more than 25 years experience and expertise in serving the needs of small to midsize businesses, Epicor Express offers a modern, comprehensive end-to-end solution for job shops and smaller manufacturers provided through the Software as a Service (SaaS) model. Understanding the fiscal complexities, capital constraints, and challenges confronting smaller manufacturers in today's business environment, Epicor Express was developed specifically with these businesses in mind and is delivered in a model that reduces IT complexity – enabling companies to quickly get up and running.

IMTS Booth E-3851
Epicor Software Corp.
Irvine, CA
epicor.com

Production Management
- Job Management
- Lean Production
- Data Collection
- Quality Assurance
- Scheduling

Customer Relationship Management
- Contact Management
- Lead & Opportunity Management
- Marketing Management
- Estimate & Quote Management
- Order Management

Product Management
- Bill of Materials
- Routing
- Engineering Change & Revision Control
- Product Costing
- Document Management

Financial Management
- General Ledger
- Accounts Receivable
- Accounts Payable
- Multi Currency
- Payroll

Material Management
- Inventory Management
- Purchase Management
- Shipping & Receiving
- Supplier Management

On-Demand Business Architecture
- Web Browser and Smart Client Access
- Next-generation Cloud Computing Platform
- Data Security and Business Continuity
- Business Process Management

Business Intelligence
- Role-based Dashboards
- Information Trackers
- Comprehensive Reporting
- High Speed Search