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608-849-8381
info@tormach.com
www.tormach.com

FANUC Announces Production of 750,000th Robot

FANUC CORPORATION, a leading supplier of CNCs, robotics and factory automation, has announced the production of its 750,000th industrial robot, representing a record high point in the robotics industry.

Currently, FANUC is capable of producing 11,000 robots per month in fully automated factories that use FANUC's own robots to make robots, controllers and machine tools.

"With 750,000 robots installed globally, FANUC has become a household name in manufacturing," said Mike Cicco, President and CEO, FANUC America. "I would like to thank our customers, Authorized System Integrators, suppliers and employees for helping us achieve such an impressive and important milestone."

FANUC's customer base covers a

wide range of industries including automotive, aerospace, food and beverage, consumer goods, medical and pharmaceutical, warehousing and many more.

"Now more than ever manufacturers are embracing automation and robotics to solve production challenges," said Cicco. "I am proud to say that FANUC is in a position to meet the growing demands for easy-to-use automation solutions that help our customers increase efficiencies, improve their competitive position and realize a quick ROI. We look forward to helping as many companies as possible achieve their goals."

For more information contact:
FANUC America Corporation
3900 West Hamlin Road
Rochester Hills, MI 48309-3253
888-FANUC-US (326-8287)
www.fanucamerica.com

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sales@absolutemachine.com
www.absolutemachine.com

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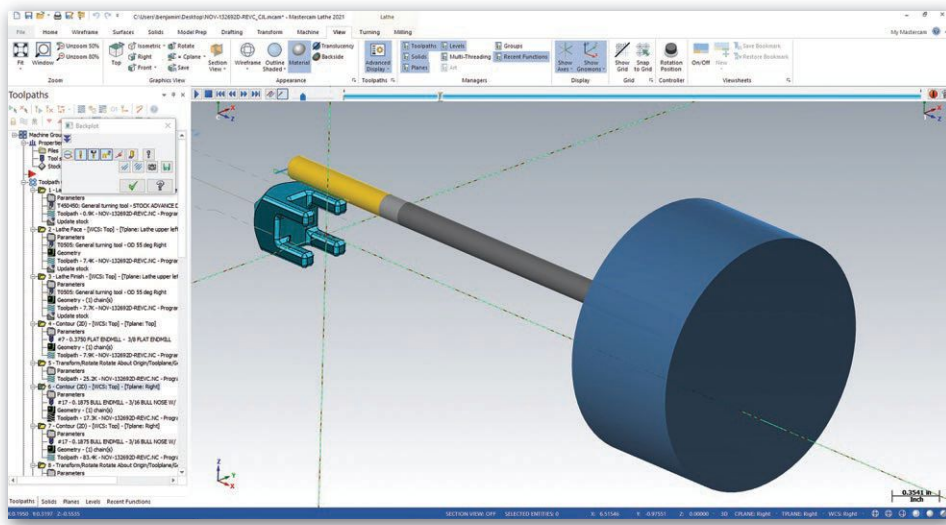


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Mud pump component part is programmed with Swiss solution in Mastercam 2021 Lathe.

“Now that we have a good working post, I can take the code from my computer to the Swiss machine, load it, push the button and have a good part,” Molinar continued. “That is how confident I am with the post that Chris from CNC Software has given us.”

Eliminating the milling operation and switching to a Swiss machining application yielded big results for the small mud-pump part. Machine time went from a 20-minute, two-operation job to a 6 minute, 10 second, single-machine operation. After running the last 1,000 pieces on the Swiss machine, Ed’s Precision Manufacturing was able to save 47 hours for every 200 parts, for a total of 235 hours saved per part run.

“All of that was by eliminating the milling operations,” said Molinar. “We essentially eliminated the entire second operation, which was the bulk of the time spent on the mill.”

After achieving success with the Mastercam 2021 and Swiss machine application, Ed’s Precision Manufacturing is reaching out to find more work that fits its machine parameters. Moreover, with full 5-axis capabilities and a reliable post, the company is revisiting past jobs to determine if those previously performed on a lathe and mill can be produced on the Swiss machine. Besides saving time and money, using the Swiss machine frees up spindle time elsewhere in the shop.

“Not many Texas manufacturers concentrate on Swiss work; a majority of those jobs are being sent to Midwest job shops,” said McLaughlin. Ed’s Precision Manufacturing hopes to tap into the promising Swiss market share and keep some of those machining jobs in The Lone Star State.

Swiss machining technology may be new to many programmers, but as Molinar learned, it is never too late to master a new skill. A 25-year machinist, Molinar never touched a Swiss machine until recently. Now, he is running them with confidence and achieving great results. He credits the ongoing support from CNC Software and Mastercam Reseller MLC in helping Ed’s Precision Manufacturing launch its successful Swiss machining program.

DeCora plans to keep his shop busy with mill-turn and Swiss machining applications. He hopes to further improve manufacturing efficiencies through the addition of collaborative robots, also known as cobots, which are designed to work alongside humans in a shared workspace. By looking to the future, Ed’s Precision Manufacturing will continue to provide solutions for its customers.

“We have a lot of customers that give us work on a regular basis,” said Molinar. “Some things they want are not in our wheelhouse, but we accommodate them as best we can. Sometimes a job is beyond our capabilities due to sheer size, but for the most part, our customers come back to us because we are able to handle everything that they need.”

For more information contact:
Ed’s Precision Manufacturing, LLC
6061 Thomas Rd, Houston, TX 77041
713-956-1112
sales@edsprecision.com
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671 Old Post Rd, Tolland, CT 06084
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Stainless steel alloy component for an oil-field mud pump was machined using Swiss solution in Mastercam 2021 Lathe.



UNITED GRINDING North America to Unveil New Technology at Fall Event

Under the brand C.O.R.E.—Customer Oriented REvolution—UNITED GRINDING North America will unveil a new innovation at its Evolution to Revolution event October 13 to 14 in Miamisburg, OH. The reveal will happen at 10:30 AM on Wednesday, October 13, followed by two days of educational seminars designed to help customers boost their operational efficiency and productivity.

Prior to the official market launch of C.O.R.E., Stephan Nell, CEO of the UNITED GRINDING Group, said, “We have invested unwaveringly in research and development both before and during the global pandemic to secure the future—not just for us, but above all for our customers. The manufacturing future is linked inseparably to the digitalization and simplification of production. Within this connection, C.O.R.E. is intended to shift the focus back on to people in a revolutionary way.”

Experts from each of the UNITED

GRINDING Group’s three technology areas—surface and profile grinding, cylindrical grinding and tool machining—worked within a joint team on this development. “The project reflects our bundled development expertise,” explained Christoph Plüss, CTO of the UNITED GRINDING Group. “Through C.O.R.E., we are laying the foundations for a new generation of machine tools that will pave the way into the digital age.”

A live stream of the event will also be offered. Go to united.grinding.com/revolution for more details and to get RSVP information.

For more information contact:
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info@grinding.com
www.grinding.com

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Simmons Machine Tool Corporation Now NSH USA Corporation



facility in Sterling Heights, MI, (Hegenscheidt-MFD Corporation) will directly serve the automotive crankshaft industry and provide additional support for NSH Group products.

Earlier this year, NSH USA established the Niles Technical Application Center (NTAC) in Albany, NY, where a Niles-Simmons N30MC multitasking machine will soon be present for customer demonstra-

tions, process development and operator training. Simmons, Stanray and Hegenscheidt railway machines for the U.S. market will continue to be manufactured in Albany, where the company has experienced significant growth and focused much of its development.

NSH USA President/COO David William Davis said, "This is an exciting moment not just for Simmons and Hegenscheidt-MFD Corporation, but for the entire NSH Group. Building off decades of manufacturing experience and the wide variety of strengths that make up the members of the NSH Group, NSH USA is now positioned to significantly grow our presence throughout North America."

For more information contact:
NSH USA Corporation
1700 North Broadway
Albany, NY 12208
518-462-5431
www.nsh-usa.com

NSH USA Corporation
6255 Center Drive
Sterling Heights, MI 48312
586-274-4900

Simmons Machine Tool Corporation and Hegenscheidt-MFD Corporation have been partner companies within the NSH Group (Niles-Simmons-Hegenscheidt) since 2001. Simmons designs and manufactures precision machines and automation systems for railway wheel set maintenance and production, while Hegenscheidt-MFD Corp. provides technical support, service and tooling for the company's deep rolling crankshaft products in North America. To better serve its customers, Simmons is acquiring Hegenscheidt-MFD Corp. to bring the companies together. The new entity is NSH USA Corporation.

NSH USA will additionally serve North American customers across industries such as railway, aerospace, defense, automotive and renewable energy by providing sales, process engineering, programming and service support for all companies in the NSH Group: Niles-Simmons (Germany); Simmons (USA); Hegenscheidt-MFD (Germany); Rasoma (Germany); and WEMA Glauchau (Germany).

NSH USA's headquarters will remain in Albany, NY. The manufacturing

ASSEMBLY Show to Feature Three Workshops

The 2021 ASSEMBLY Show, taking place in-person October 26-28 at the Donald E. Stephens Convention Center in Rosemont, IL, will begin Tuesday, October 26 with three workshops. Editors of ASSEMBLY Magazine, producers of The ASSEMBLY Show, will moderate the workshops on Electric Vehicle Assembly: Challenges & Opportunities; Fastening & Joining: New & Alternative Methods; and Robotics Assembly: Be-

yond the Basics.

The morning workshop will take place from 10 AM to 12 PM and the two afternoon workshops will be held from 1 PM to 4 PM. Registration is now open for all three workshops and for the entire event.

The Tuesday morning workshop on Electric Vehicle Assembly: Challenges & Opportunities will provide a guide through the important role of assembly

tools and techniques in the mass-production of electric vehicle batteries, motors and other components. Panelists will include Thomas Parker, Automotive Market Sales Manager, INFICON Inc., who will discuss Battery Leak Testing; Neil Dueweke, Vice President, FANUC America Corp. will discuss How Robotics are Helping the EV Market Grow at a Rapid Pace; and Tim Frech, Senior Engineer, EWI will talk about Connecting Batteries and Cells to Tabs and Busbars with Pulsed Arc Welding. Austin Weber, Senior Editor, ASSEMBLY Magazine/Autonomous and Electric Mobility by ASSEMBLY will moderate the session.

In the afternoon, Jim Camillo, Senior Editor, Assembly Magazine will moderate Fastening & Joining: New & Alternative Methods. Engineers are incorporating a raft of new materials in vehicle designs, including composites, engineering plastics, aluminum and higher strength, lighter-weight steels. Stephen Webb, Senior Applications Engineer, ORD Corp., a Part of Parker Hannifin, will present Adhesives for Lightweighting; Byron Selorme, President, PressLock Technologies, will discuss Clinching and Self-Pierce Riveting for Mixed-Material Assembly; Edward Kortez, M.S., Lead Application Engineer, Arnold Fastening Systems Inc., will discuss Flow-Drill Screws for Mixed-Material Assembly; and Pierson Cheng, Automotive Industry Manager, TRUMPF Inc. will discuss Lasers for Lightweighting.

John Sprovieri, Editor-in-Chief, Assembly Magazine will moderate the concurrent afternoon workshop on Robotics Assembly: Beyond the Basics. According to the International Federation of Robotics, there are 228 robots for every 10,000 manufacturing workers in the U.S. That is more than twice the global average. The advent of collaborative robots, or cobots, will only increase that trend. Panelists Max Reynolds, Co-founder and CEO, Symbio Robotics, will talk about Artificial Intelligence for Robotic Assembly; Josh Person, Staff Engineer, FANUC America Corp., will discuss Vision Guidance for Robotic Assembly;

John Iskra, Robotic Systems and Automation Sales Manager, ASG, Division of Jergens Inc., will discuss Tips, Tricks and Technologies for Robotic Screw-driving; and David Cappellani, Global Key Account Manager for Automotive, Universal Robots, will talk about Collaborative Robots in Today's Automotive Factory. These industry experts will provide insight on how to apply robotics to applications beyond simple pick & place operations and capitalize on the full capabilities of this technology.

The 9th Annual ASSEMBLY Show will bring together thousands of industry professionals with hundreds of exhibiting companies providing manufacturing engineers and managers the opportunity to uncover new resources, experience equipment hands-on, evaluate the latest technologies and products and connect face-to-face with industry experts.

Attendees will have access to the Keynote Presentation on Wednesday, October 27, covering Smart Manufacturing: Today and Tomorrow. The education opportunities continue off the show floor with Learning Theater Presentations by exhibiting companies, including ACD Group, Rexroth a Bosch Company, Cardinal Kinetic, Epson Robots, Festo Corp., INFICON, Daifuku, a Jervis B. Webb Company, Kistler, Mountz, Sturtevant Richmond, Tutelar Technologies and Universal Robots.

Exhibit hall hours:

- Tuesday, October 26, 4 to 7 PM with the Taste of Rosemont Welcome/Networking Reception
- Wednesday, October 27 from 10 AM to 5 PM followed by the Pub Night Social Event from 5 to 7 PM
- Thursday, October 28 from 9 to 2 PM with a Morning Mingle & Breakfast from 9 to 10 AM.

Registration is now available. Go to assemblymag.com/the-assembly-show/registration-fees for details.

For more information contact:
ASSEMBLY Show
assemblymag.com/the-assembly-show

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Tormach Now Offers Machine Assembly Services and On-Site Installation

Tormach Inc., a supplier of compact CNC machines, has announced it is now offering assembly services for its line of machines, including the 1100M/MX and 770M/MX CNC mills, the PCNC 440 mill and the Slant-PRO 15L. "By default, Tormach ships its machines unassembled to its customers as a way to keep costs down," said a company spokesperson. "Now, for a reasonable fee, customers have options." Assembly services are performed at Tormach's facility and offered in a tiered system. Customers can choose the specific accessory or upgrades they would like to have pre-installed before the machine ships, such as an Automatic Tool Changer or Power Draw Bar, or they can opt for full machines assembly.

An in-house Tormach professional will install, align and test all pre-installed components (if partial assembly is chosen) and major systems to the machines for full assembly. This allows customers to speed up the time to commission their new machines quickly at their shop once they arrive.

"We heard from many customers that they would prefer it if we would provide our machines fully assembled or assist in installing major accessories, and the additional cost was well worth it to them," said Lori Morrison Bufalo, Tormach's Marketing Director. "We have decided to add this service as a way to make life easier for our customers and much like our philosophy with machine design, every customer has different needs, so you have the ability to pick and choose what you would like installed by our technicians."

Examples of items Tormach can assemble on its machines include:

- Automatic tool changers (ATC)
- High-performance servo motors
- Motorized 4th axis rotary tables and fixed vises
- High-performance spindles
- Coolant systems
- Enclosures (dependent upon shop door dimensions)
- PathPilot operator consoles
- Machine stands.

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E-mill 5VK

- Spindle 5HP
- Table Size 10" x 50" or 54"
- (6VK model available 12" x 59")



BED-MILL 1054

- Spindle 5HP
- Table Size 10" x 54"



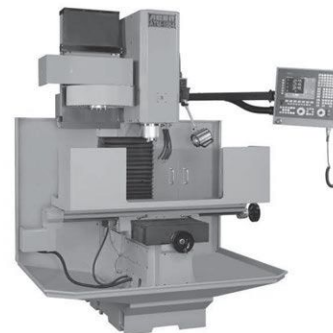
BED-MILL 1054-II

- Spindle 7.5HP
- Table Size 10" x 54"



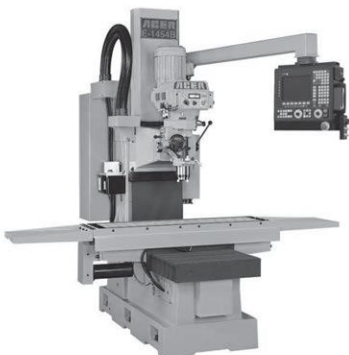
ATM 1054-II

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- Table Size 10" x 54"
- Auto Tool Change



BED-MILL 1454

- Spindle 5HP
- Table Size 14" x 54"



BED-MILL 1454-II

- Spindle 7.5HP
- Table Size 14" x 54"



ATM 1454-II

- Spindle 7.5HP
- Table Size 14" x 54"
- Auto Tool Change



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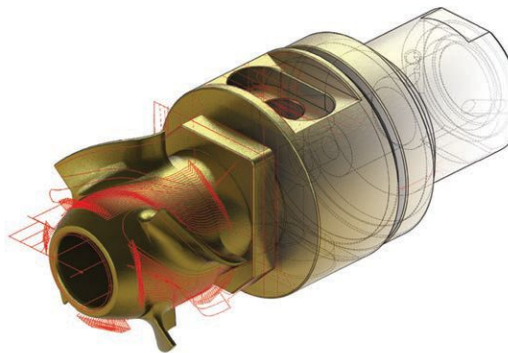
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PDQ Workholding & Tooling Joins Partners in THINC Network

The management team of Okuma America Corporation has announced that PDQ Workholding & Tooling recently joined the Partners in THINC network.

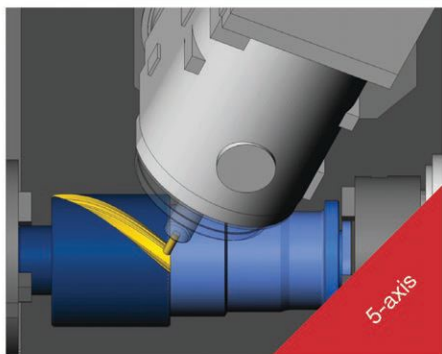
PDQ designs and manufactures custom cutting tools and hydraulically-actuated machining center fixtures for machine shops all over the world. PDQ's headquarters is located in Indiana, and from its 60,000 sq. ft. facility services customers throughout the world. PDQ involves clients in each step of the design process. The team's experience, creativity and access to a large inventory of tool blanks enables them to swiftly craft solutions for their clients' unique needs.

Wade Anderson, Manager of Okuma's Partners in THINC network program, said, "At Okuma, we partner with best-in-class companies to provide holistic machining solutions to our customers. PDQ Workholding and Tooling Systems provides complex solutions for part processing and the service and support our customers expect from Okuma and our partner network."

"PDQ is proud to be included with the other industry leaders in the Partners in THINC network. We look forward to collaborating and continuing to produce the best results for our customers," said Jerry Busche, President of PDQ.

For more information contact:
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Columbia City, IN 46725
260-244-2919
www.pdqwh.com

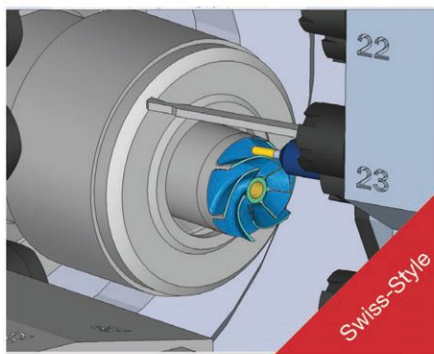
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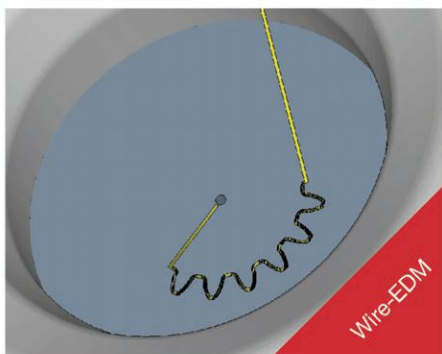
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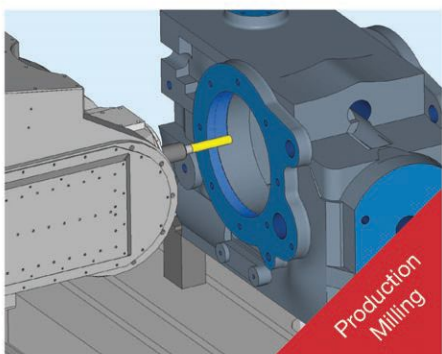
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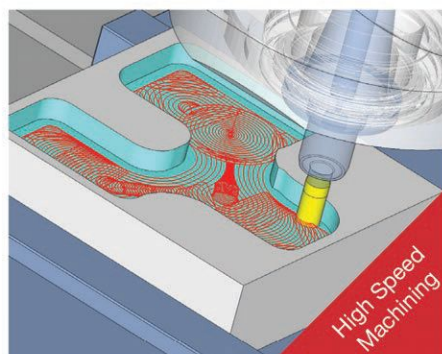


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X.6092 Y-.0041 Z-4.2214
POST & GO Z-4.2064

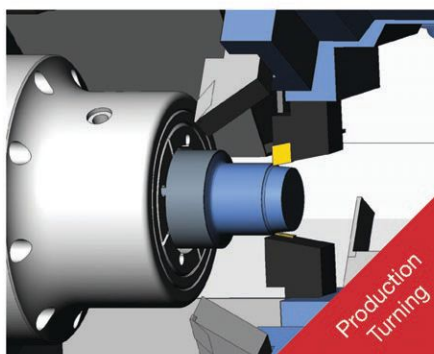
Post Processors



Production Milling



High Speed Machining



Production Turning

Additional Helmet Graphics Now Available

Continued from Page 48

Technology, which automatically sets the helmet sensitivity for the welder's environment. Digital Elite helmets also feature ClearLight Lens Technology and exclusive X-Mode Technology, which eliminates sunlight and out-of-position interference by electromagnetically sensing

the welding arc even when sensors are blocked.

For more information contact:
Miller Electric Mfg. Co.
P.O. Box 100, Lithonia, GA 30058
800-426-4553
info@millerwelds.com
www.millerwelds.com/helmets

Workcells Optimize Productivity

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Designed for wider parts, the ArcWorld LC single workstation configuration features a fixed tooling table with a 250 kg payload or a servo-driven MH185 headstock with a 185 kg payload. The dual workstation configuration is available with fixed tooling tables or two MH185 headstocks. Dual workstation models allow one part to be loaded or unloaded while the other part is being welded, and eliminate sweep time of the part positioner between part processing. Tooling can be changed quickly. Workcells can be tooled for different parts or can be used for sequential operations.

The workcell, featuring a 2,125 mm x 2,097 mm footprint, fits in a 110" trailer, simplifying shipping and reducing set-up time. The simple design is non-cumbersome with pre-terminated cables that are labeled and quick to connect. The power disconnect, welding equipment and robot controller come prewired on a separate 1 m x 1 m base

that can be located anywhere near the work cell. Fencing is easy to assemble and matches up with the operator station access and work cell base.

Each work cell features a single high-speed, 6-axis AR1440 robot with YRC1000 controller. Its integrated weld package includes either a Miller Auto-Continuum 350 or Lincoln Electric Power Wave R450 power source. Processes from the power supply are accessed by Yaskawa's easy-to-use digital Universal Weldcom Interface (UWI), giving full control of welding parameters and settings from the robot programming pendant. The ArcWorld LC series workcells are safeguarded and have a completed risk assessment in accordance with the ANSI/RIA R15.06-2012 robot safety standard, including a Functional Safety Unit (FSU).

For more information contact:
Yaskawa America, Inc.
Motoman Robotics Division
Miamisburg, OH 45342
937-847-6200
www.motoman.com

Absolute Earns Diamond Partner Status

Absolute Machine Tools, Inc. recently earned the title of Diamond Partner Systems Integrator from Mitsubishi Electric Automation, Inc., an affiliate of the global manufacturer Mitsubishi Electric that focuses on production solutions. The partnership is expected to expand opportunities and bring value to both companies.

The Diamond Partnership program is so named for its strength and multifaceted approach to automation relationships. These four facets are the customer, the Diamond Partner, Mitsubishi Electric Automation and Mitsubishi Electric. As a Diamond Partner Systems Integrator, Absolute will have access to a comprehensive software portal to stay up to date on demonstrations and proof-of-concepts; a Systems Integrator Locator to showcase Absolute directly to customers; a hardware demonstration system; a complete software suite for PLC, motion, HMI, VFD and robot with automatic updates; and a strong support team for product training and technical resources.

Jason Jones, FESG Manager of Automotive & Central U.S. at Mitsubishi Electric Automation, conducted the interview that confirmed Absolute's eligibility for Diamond Partner status. Absolute Machine Tools Director of Marketing and A+ Automation Team Courtney Ortner said, "Our ongoing contribution to Mitsubishi projects as well as our current and past automation projects were part of our qualifications."

Absolute was the only U.S. distributor to partner with Mitsubishi Electric

Automation to create and build the LoadMate Plus, a machine tending robotic cell designed to add automation to CNC applications. Mitsubishi also took the development of Absolute's A+ Automation Team into consideration when deciding to give Absolute the title of Diamond Partner.

Ortner created the A+ Automation Team in response to the growing need for automation and to help manufacturers find the best solutions to meet their production requirements. "COVID-19 pushed manufacturers to think even more seriously about automating their processes to remain competitive in an ever-evolving global economy and to fill the voids left by the virus and the lack of skilled labor," she explained.

Ortner added, "This achievement is just one more step in giving our customers the broader choices for automation. Being a Mitsubishi Diamond Partner means that Absolute can offer the most complete lines of automation products and solutions to the metal-cutting industry."

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Mitsubishi Electric Automation Inc.
500 Corporate Woods Pkwy.
Vernon Hills, IL 60061
847-478-2100
us.mitsubishielectric.com/fa/en

UNITED GRINDING North America to Unveil New Technology at Fall Event

Under the brand C.O.R.E.—Customer Oriented REvolution—UNITED GRINDING North America will unveil a new innovation at its Evolution to Revolution event October 13 to 14 in Miamisburg, OH. The reveal will happen at 10:30 AM on Wednesday, October 13, followed by two days of educational seminars designed to help customers boost their operational efficiency and productivity.

Prior to the official market launch of C.O.R.E., Stephan Nell, CEO of the UNITED GRINDING Group, said, "We have invested unwaveringly in research and development both before and during the global pandemic to secure the future—not just for us, but above all for our customers. The manufacturing future is linked inseparably to the digitalization and simplification of production. Within this connection, C.O.R.E. is intended to shift the focus back on to people in a revolutionary way."

Experts from each of the UNITED

GRINDING Group's three technology areas—surface and profile grinding, cylindrical grinding and tool machining—worked within a joint team on this development. "The project reflects our bundled development expertise," explained Christoph Plüss, CTO of the UNITED GRINDING Group. "Through C.O.R.E., we are laying the foundations for a new generation of machine tools that will pave the way into the digital age."

A live stream of the event will also be offered. Go to united.grinding.com/revolution for more details and to get RSVP information.

For more information contact:
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The screenshot shows the Manufacturing News website homepage. At the top, there are navigation links for 'Current Editorial', 'Advertising', 'Archives', 'Subscriptions', 'Trade Shows', 'Upcoming Events', 'Links', and 'Videos'. Below this is a 'DIGITAL EDITIONS' section with five regional news feeds: Southwest, Southeast, Northeast, Midwest, and West. A 'BROWSE BY EDITORIAL CATEGORY' section highlights 'New Product Information To Keep Informed of the Latest Technology' and 'Updated Peening Hammer Literature'. A 'See Past MANUFACTURING NEWS Issues' callout points to a 'VIEW PREVIOUS EDITIONS' button. Other callouts include 'Read Current Digital Editions' pointing to the regional news feeds and 'Search for new product information' pointing to a search bar at the top right.