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EMAG Group, HPL Technologies Cooperation Agreement



Hard coating of brake discs by laser cladding.

EMAG and HPL Technologies have announced an extensive cooperation agreement in the field of hard coating of brake discs. Hard-coated brake discs are the preferred solution for compliance with the "EURO 7" fine particulate mat-

ter limits.

The European Commission published the new draft standard "Euro 7" on November 10, 2022. This standard is to apply to passenger cars and vans from
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Wandelbots Expands No-Code Solution to U.S.



Wandelbots, the German-based no-code robotics software firm, recently opened a U.S. headquarters in Chicago, IL, to expand its global operations and ac-

celerate human-centered robotics solutions in the manufacturing industry. Its signature software, Wandelbots Teaching,
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TSTC Precision Machining Technology Dual Enrollment Program

Texas State Technical College's dual enrollment program in Precision Machining Technology enables high school students to take college-level courses as they work toward high school diplomas and earn college semester-credit hours. Classes are taught by TSTC-accredited teachers at Red Oak High School, at TSTC or online.

The full Precision Machining Technology program takes a year and three months to complete in order to graduate with an Associate of Applied Science
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Maverick Pipe Buys TexAmericas Center's Spec Building

TexAmericas Center, which owns and operates one of the largest mixed-use industrial parks in the United States, has announced New Hampshire-based Maverick Pipe as the newest Corporate Citizen expanding to its property. Maverick Pipe will initially invest \$20 million toward its expansion and hire 40 employees in the Texarkana region.

Maverick Pipe is a pipe manufacturing company specializing in production of conduits, fittings, tubing and accessories. It offers in-stock and on-demand inventory to help pipe distributors grow their businesses and increase
Continued on Page 62

Hydra Service Purchased by Local Investment Group

Hydra Service, manufacturer of Dynapower pumps, motors and turbine starters, announced the company has been purchased by a local manufacturing investment group, led by business professional Mick Webber.

The team has manufactured thousands of units in its 40 years, many remaining in service for decades. Now, the new ownership and existing management are committed to servicing and replacing old equipment, developing new
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Feature Editorial



Drilling/Tapping/Threading

Reaming System with Quick-Change Capability

A uniform holder system and standardized interface provide greater flexibility.



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Medical Manufacturing

12-Axis Multislide CNC Screw Machines



Machines feature multiple overlapping slides designed to meet or exceed speed and quality

of CAM-driven machines.

■ See Page 22

Applying Technology

Precision Workholding

Workholding solutions are key for producing high quality silencers.



■ See Page 32

Metalforming/Fabricating/Waterjet

Clean Tube Technology



Probe uses suction to capture spatter, gases and vapors produced during the cutting process.

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Replacement Parts

Fused Silica Lenses

Lenses can be replaced in the field rather than returning the complete laser head to the OEM.



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Expand Machinery Introduces Robotic Packages at its Open House

Expand Machinery's February 22nd open house, held in its Chatsworth, CA, technical center, highlighted four fully integrated robot systems and showcased practical shop floor solutions. The machines integrated with robotics on display featured the complete ready to run packages, tailored by Expand Machinery, to meet the needs of the customer.

"Expand Machinery has created Cobot and Robot packages so our customers get a complete unit needed for production without going to multiple vendors," said Ravjeet Singh, General Manager, Expand Machinery. "This is the way Expand Machinery prepares Robot and Cobots so they are ready to perform real world machine tending in your shop upon delivery and you are not left scrambling trying to find all the proper pieces that fit and then have to integrate them into a functioning system, we make it turnkey."

The Mitsubishi RV5 Assista Cobot has a 5kg load capacity, the Mitsubishi RV8 features an 8kg load and the big Mitsubishi RV20 can handle a 20kg load. An option on the RV8 and the

RV20 is the multiple station pallet rack with pallets so the customers can store multiple parts without changing any end of arm tooling for the robot. Videos for the RV20 with the pallet rack will be available soon on the website. The Cobot offerings from Productive Robotics were the OB7 with a 5kg load and the OB7 MAX with a 12kg load capacity.

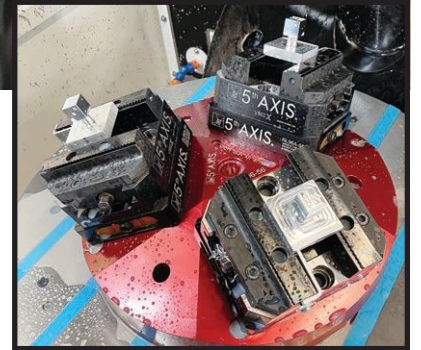
Technical Vendors at the open house included Hexagon/DP Technology ES-PRIT Software, Renishaw, KOMA Precision, ISCAR, Green Eco Pro, Firetrace, MP Systems, 5th Axis Workholding and Schunk.

Expand Machinery has been shifting its focus toward the "machined in one setup" multi-axis machining efficiency and the profitable integration of robotics in the shop. Its machine offerings now provide a wide range of 5-axis milling machines from 4" to 24" table sizes and CNC Swiss machines from 20-52mm bar sizes. Other CNC turning and milling machines are offered, plus the full range of GANESH manual lathes and milling machines.

For more information contact:



(l-r): Ravjeet Singh, General Manager, Expand Machinery and David Contreras, Business Development Manager, Machine Tool, Mitsubishi Electric Automation, with the GEN MILL 5X-24 CNC milling machine. The machine features a 25.6" worm-gear driven tilting rotary table and precision glass scale feedback in the XYZ axes as well as the rotary B and C axes.



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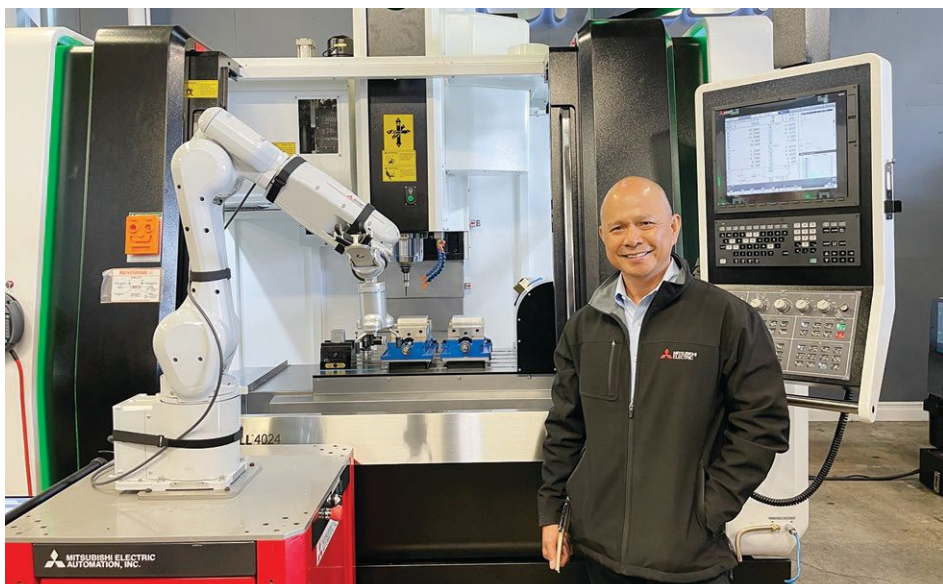
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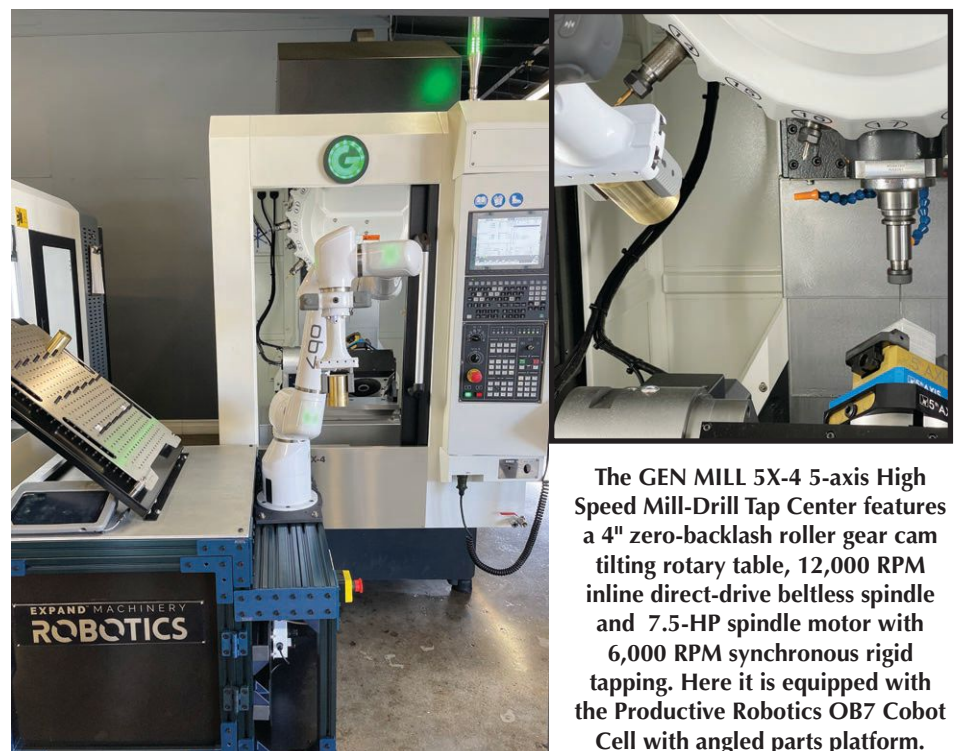
Doug Henke, Regional Sales Manager, Expand Machinery, with the GEN MILL 2416 3-axis high-speed VMC with 24-tool high-speed double arm ATC; 1,417 IPM rapids; spindle chiller and 12,000 RPM double-ground BIG-PLUS spindle. It features the Mitsubishi RV5 Assista Cobot with a 3-year warranty for both the control and robot.



Henry Gomez, Senior Field Application Engineer, Mitsubishi Electric Automation, with the 5X-12 GEN MILL high-speed VMC with built-in 12" trunnion with glass scale feedback on all 5 axes; roller bearing ways; 1,417 IPM rapids; 12,000 RPM double-ground BIG-PLUS spindle and spindle chiller. It features the Mitsubishi RV20 FR LoadMate machine tending robotic cell with zero-point workholding.



Jonathan Perez, Business Development Manager, Robotics, Mitsubishi Electric Automation, with the GEN MILL 4024 CNC VMC featuring travels of 40.5" in X, 23.6" in Y and 25.6" in the Z-axis. The Meehanite processed cast iron frame is engineered to provide a high-strength cutting platform with high vibration dampening and efficient metal removal rates. It features the Mitsubishi RV8 LoadMate machine tending robotic cell.



The GEN MILL 5X-4 5-axis High Speed Mill-Drill Tap Center features a 4" zero-backlash roller gear cam tilting rotary table, 12,000 RPM inline direct-drive beltless spindle and 7.5-HP spindle motor with 6,000 RPM synchronous rigid tapping. Here it is equipped with the Productive Robotics OB7 Cobot Cell with angled parts platform.