



NEWS RELEASE

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Mazak to Spotlight Single Setup Part Production at PMTS 2015

Attendees will discover how to boost capacity via Multi-Tasking technology and automation

FLORENCE, Ky., Feb. 9, 2015 – At PMTS 2015, taking place April 21 – 23 in Columbus, Ohio, Mazak will showcase the high levels of accuracy and productivity that shops can achieve with its advanced Multi-Tasking technology. In booth 253, the company will feature its new QUICK TURN UNIVERSAL (QTU) 250MSY and INTEGRIX i-100ST machine tools that process small parts in single setups.

Mazak designed its QUICK TURN UNIVERSAL Series of small-footprint turning centers, including the QTU 250MSY, so shops never have to choose between quality and affordability. While simple in their design, these machines feature innovative technologies that bring precision and value to the production of parts such as medical devices, engine components and electronic enclosures.

The QTU 250MSY features a milling turret with a rotary tool spindle to perform Multi-Tasking operations, a second turning spindle for DONE IN ONE® part production and Y-axis functionality for off-centerline machining. Other key machine features include an advanced integral spindle/motor headstock and special servo-driven turret design.

The machine's spindle/motor headstock offers extreme rigidity in heavy-duty machining as well as high-speed, high-torque operations. Its power comes from a variable-speed AC inverter that eliminates the need for any belts or pulleys, resulting in zero backlash. A full-circumference C-axis headstock break design provides high-accuracy positioning to within 0.0001 degree.

Offering multiple tool configurations, the servo-driven turret on the QTU 250MSY uses a roller gear cam drive system to achieve a smooth high-speed, high-accuracy indexing motion as well as eliminate the need for expensive curvic/index couplings. Without these couplings, it is possible to increase the turret's capacity to include up to 25 small tools as well as program an infinite number of index positions without having to make any changes to the turret housing.

PMTS attendees looking for an even higher level of Multi-Tasking capability will find it with the INTEGREX i-100ST. The machine employs two turning spindles, a milling spindle and a lower turret. Such features make it possible for shops to accomplish first and second machining operations simultaneously or perform required sequential operations on a single workpiece.

Able to handle all processes from raw material input through the final machining, the INTEGREX i-100ST provides dramatic reductions in lead-times and improves workpiece accuracy through the elimination of multiple setups. Plus, its full 5-axis capability makes it easy to process fully prismatic parts from solid block or castings, round parts or highly contoured sculptured parts as chucked or bar fed work.

The turning spindles on the INTEGREX i-100ST share high performance capabilities as they both employ a 15-hp integral motor spindle with maximum spindle speeds of 6,000 rpm. Each spindle features a 6" chuck with a 2.4" bore size that can accommodate bar stock of up to 2" in diameter.

The machine's powerful 10-hp, 12,000-rpm milling spindle mounts in the rotating B-axis and has a range of 240 degrees in 0.0001-degree indexing increments. And for high accuracy of motion, B-axis scale feedback comes standard on the machine. The machine's 36-tool magazine accommodates tools up to 5.1" in diameter when neighboring stations are empty and up to 3.5" in diameter when stations are occupied.

The lower drum turret on the INTEGREX i-100ST holds nine tools and can work at either the main or second spindle with the same tool, allowing the turret to perform balanced cutting operations on one part working in tandem with the machine's vertical milling spindle. It is also possible to perform milling operations with the lower turret.

Both the QTU 250MSY and INTEGREX i-100ST easily integrate with various forms of automation, including bar feeders, gantry loaders and robots. At PMTS, Mazak will pair these machines with bar feeders to showcase how basic automation can offer immediate increases in productivity and material utilization.

About Mazak Corporation

Mazak Corporation is a leader in the design and manufacture of productive machine tool solutions. Committed to being a partner to customers with innovative technology, its world-class facility in Florence, Kentucky, produces over 100 models of turning centers, Multi-Tasking machines and vertical machining centers, including 5-axis models. Continuously investing in manufacturing technology allows the Kentucky iSMART Factory to be the most advanced and efficient in the industry, providing high-quality and reliable products through its "Production-On-Demand" practice. Mazak maintains eight Technology Centers across North America to provide local hands-on applications, service and sales support to customers. For more information on Mazak's products and solutions, visit www.mazakusa.com or follow us on Twitter and Facebook.

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