NEWS RELEASE

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Mazak QTU-200MY Makes Multi-Tasking Easy for Shops of All Sizes

FLORENCE, Ky., November 16, 2016 – As a perfect entry into Multi-Tasking technology, Mazak's QTU-200MY Turning Center offers shops of all sizes ease of use, cost-effectiveness and unmatched productivity. The space-saving machine features a main turning spindle, tool turret with rotary milling spindle, Mazak's new MAZATROL SmoothC control and Y-axis off-centerline capabilities for high versatility paired with all the benefits of Multi-Tasking part processing.

The machine's headstock incorporates Mazak's (built-in) spindle/motor design that eliminates the need for belts or pulleys for zero backlash or any belt stick/slip. The A2-6, 20-hp (15 kW)(15% ED) main turning spindle provides speeds from 35 rpm up to 6,000 rpm with 90 ft-lb of torque for heavy-duty metal removal. Its spindle bore diameter of 2.4" (61 mm) accommodates a maximum bar diameter of 2" (42 mm).

The main turning spindle also serves as a full 360-degree C-axis that indexes in 0.001-degree increments. It is a full-function CNC programmable axis that accurately positions parts for complex and prismatic machining along with 3D contouring.

Additionally, the QTU-200MY is outfitted with a 12-position, integral-motor turret that uses a roller gear cam drive system for smooth, high-speed, high-accuracy digital indexing as well as expandability. The innovative turret eliminates the need for curvic/index couplings and with the use of tandem tooling, allows the number of tool positions to be expanded. This is possible because it indexes digitally to any position without changes to the turret housing. And once in position, an integral hydraulic clamping system ensures maximum rigidity.

The turret's rotary tool spindle delivers 4,500 rpm (standard) and 6,000 rpm (optional) to perform milling, drilling and tapping operations. The standard mill spindle provides 34.7 ft-lb of torque, while the optional higher speed version generates 17 ft-lb.

Because it features Y-axis off-centerline machining capability, the QTU-200MY uses Mazak's special high-gain servo-control turret/feed-axis motion. The double-slide configuration delivers rigid, high-speed, precise positioning as well as smooth axis acceleration/deceleration. The machine's X-axis ballscrews work in tandem with the Y-axis ballscrews that are inclined at 30 degrees to move the turret 3.94" (100 mm) in the Y axis.

The machine also features an NC servo-driven tailstock to enable automated processes. The fully programmable tailstock utilizes its own AC servomotor and ball screw. Through the part program, the tailstock extends to a known position and with an approach feed rate, makes contact with the part with consistent holding pressure. Because of its positive independent drive system, the tailstock can drill holes on shaft centerlines, which adds versatility to the jobs it can process.

Tailstock thrust settings are adjustable in increments of 22.5 ft-lb of force. This provides users the option to set thrust levels according to workpiece material and shape. A capability that eliminates the risk of part damage while simultaneously providing safe and secure holding and support with thrust settings between 225 lbs (minimum) and 1,1124 lbs (maximum).

The QTU-200MY MAZATROL SmoothC CNC offers EIA/ISO programming as well as conversational programming that makes it easy to generate programs for angled drilling, milling or tapping operations. The control also features advanced hardware and software functions that help ensure high productivity and performance accuracy in complex part production.

With a new high-rigidity base/bed design, the QTU-200MY ensures thermal control, ample part capacity and speed stability. The machine's swing capacity measures 27.4" (696 mm), and it accommodates part diameters up to 13.4" (340 mm). Rapid traverse rates are 1,181 ipm (30 m/min) in the X axis and 1,417 imp (36 m/min) in Z.

A variety of automation strategies can be integrated with the QTU-200MY, from an automatic bar feeder to gantry robots and custom solutions, for improved spindle utilization and a significant boost in productivity.

<u>About Mazak Corporation</u>
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 Mazak 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.