



NEWS RELEASE

MEDIA CONTACTS:

Mazak Corporation
Chuck Birkle
Vice President, Sales and Marketing
859.342.1641 | cbirkle@mazakcorp.com
or
dgs Marketing Engineers®
Chuck Bates
Vice President
317.813.2230 | bates@dgsmarketing.com

Mazak to Unveil HOT WIRE HYBRID Multi-Tasking Technology at IMTS 2018

FLORENCE, Ky., June 18, 2018 – Mazak will further expand its Multi-Tasking technology when it unveils the new VC-500A/5X AM HWD Multi-Tasking Machine at IMTS 2018 in the company's second Additive Manufacturing booth #432000 in the West Hall of McCormick Place in Chicago. As with all of Mazak's growing models of HYBRID technology, the new machine offers manufacturers part processing capabilities beyond those of conventional multi-tasking to reduce lead times and part costs, increase machining accuracy and part quality and achieve even higher levels of productivity, flexibility and profitability. Mazak continues to evolve its original Done In One Multi-Tasking concept with new combined processes focused on improved throughput via the completion of parts in simple single steps.

The VC-500A/5X AM HWD incorporates new and innovative Hot Wire additive manufacturing technology that Mazak developed in collaboration with Lincoln Electric, the company that designs, developments and manufactures arc welding products, and robotic arc welding systems as well as plasma and oxyfuel cutting equipment. With HOT WIRE laser deposition technology, the VC-500A/5X AM HWD not only offers a high-speed additive solution and programmable welding automation but also full 5-axis machining center capabilities.

As with conventional welding, an arc torch melts metal wire directly on to a base material and/or part, and the two materials (wire and workpiece) can be dissimilar. This allows shops to generate exceptionally precise sealing coatings along with near-net shape part features or use the machine to repair costly complex components such as impellers and turbine blades along with tool & die parts.

The machine's HOT WIRE head has the same 5-axis capability as its milling spindle, which provides the maneuverability to build new part features or weldments on all of a workpiece's surfaces. It is well suited for high-volume additive manufacturing and helps minimize equipment and material costs.

The HOT WIRE laser cladding head incorporates an automatic wire feeder system that feeds welding wire to an Argon gas nozzle. The head delivers a deposition rate of three to four pounds per hour with a 98 percent material utilization rate.

The VC-500A/5X AM HWD has a trunnion-style rotary/tilt table for the accurate, cost-effective processing of small complex parts via full 5-axis machining. The machine also features the MAZATROL SmoothX CNC and MTConnect capability that allow for easier programming and faster part cycle times – in either EIA or MAZATROL conversational language – along with digital connectivity.

On its milling side, the VC-500A/5X AM HWD comes standard equipped with a robust, high-performance CAT-40, 12,000-rpm spindle that delivers exceptional metal removal capabilities in all common materials, including steel, aluminum and cast iron. Optional speeds of 15,000 rpm and 20,000 rpm are available to address a variety of part production requirements. An ample 30-tool storage magazine ensures continuous uninterrupted part machining, as does the machine's compact chip conveyor and mist collector with smoke filter.

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. 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.

###