



NEWS RELEASE

MEDIA CONTACTS:

Mazak Corporation
Tasha Riddell
Corporate Marketing & Comm. Manager
859.342.1647 | triddell@mazakcorp.com
or
dgs Marketing Engineers®
Chuck Bates
Director of Public Relations
317.813.2230 | bates@dgsmarketing.com

Mazak to Demo Adaptive Gear Machining Solutions at Gear Expo

Multi-Tasking technology tackles hobbing, forming, surfacing, skiving and gashing

FLORENCE, Ky., August 25, 2015 – At Gear Expo 2015 in booth 1322, Mazak will use its INTEGREGX i-100ST equipped with the latest MAZATROL SmoothX CNC to demonstrate how advanced Multi-Tasking machines can effectively perform today's gear-making processes, from hobbing to skiving to gashing.

Mazak Multi-tasking Machines, including the INTEGREGX i-100ST and over 90 other model configurations, when paired with the right software and CAD/CAM system can serve as adaptive gear machining solutions that productively produce precision gears of all shapes and sizes. Unlike dedicated gear cutting equipment, these machines have the flexibility to perform a wide variety of operations in a single setup.

Shops with occasional gear work, for example, can use a Mazak Multi-Tasking machine to turn a part's I.D. and O.D., process its mating features and then power skive its gear tooth pattern. Performing all of these functions on one machine improves overall accuracy because every part feature runs true to the gear teeth. And, when the machine is not busy with gear work, it can continue to earn its keep by productively processing a broad range of complex, non-gear components.

One of the most compact models in the Mazak Multi-Tasking Machine family, the INTEGREGX i-100ST efficiently processes small complex workpieces in single setups. It employs two 15-hp, 6,000-rpm turning spindles, a nine-tool lower turret and a 10-hp, 12,000-rpm milling spindle. Each turning 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 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.

Gear Expo attendees will be among the first to see the INTEGREGX i-100ST equipped with the new SMOOTH TECHNOLOGY process-performance platform, which has transformed the way the company's multi-axis machines perform. According to Mazak,

revolutionary CNC technology, progressive machine design and unequalled engineering resources set the foundation for the platform and, together, provide users with unsurpassed ease of operation and unmatched productivity.

The MAZATROL SmoothX CNC, a key element of SMOOTH TECHNOLOGY, operates four times faster than Mazak's previous-generation controls. Gear makers, especially, will benefit from faster rotary axis speeds, which allow the machine tool to quickly perform gear hobbing and skiving operations.

Because the INTEGREX i-100ST is only one of the adaptive gear machining solutions available through Mazak, Gear Expo attendees should also inquire about the company's other gear production options while in booth 1322. The company's larger Multi-Tasking machines with full 5-axis capabilities are known for being able to quickly and cost effectively produce low-volume spiral-bevel gear sets. The INTEGREX e-1550V/10, for example, can machine a spiral-bevel gear set with a 29-tooth, 22"-diameter pinion gear and a 114-tooth, 6'-diameter gear ring in a matter of days as opposed to months.

Gear Expo will take place October 20 – 22 in Detroit, Michigan, at the Cobo Center.

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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