

The INTEGREX AG series Integrating multi-tasking machine with gear cutting

Yamazaki Mazak Corporation is unveiling a new hybrid multi-tasking machine series which integrates DONE IN ONE processing with gear cutting and measurement functions. The new “INTEGREX i-200ST AG” and “INTEGREX e-1250V/8 AG” will be introduced at IMTS 2018.

Current manufacturing in most industries makes wide use of high-mix, low volume production in which a wide variety of components are produced in small lot sizes. The production of gears today follows this same trend. Conventional gear production is performed by several processes by both conventional machine tools and dedicated gear equipment to produce gears. However, today's demands are for equipment that can be integrated in flexible production lines that provide reduced lead times for a wide variety of components. Required gear sizes range from small 0.5-1.5 module (50.8-16.9 DP) gears for automotive transmissions up to 8 module (2.95 DP) gears for planetary gears used for construction machinery and aircraft geared turbofans.

The new “INTEGREX AG series” is multi-tasking machines integrated with gear machining, such as skiving, hobbing, endmilling, and gear measurement. This makes it possible to perform all gear machining processes including turning, gear measurement by RENISHAW scanning probes “SPRINT™” as well as machining compensation in one machine. As a result, this process integration realizes high accuracy gear machining and reduction of in-process time. Programs for cutting tool paths and measurement can be easily made in a short period of time by unique control technology and conversational programming of the MAZATROL SmoothX CNC system.

Yamazaki Mazak Corporation will exhibit “INTEGREX i-200ST AG” for small and medium size gears and the “INTEGREX e-1250V/8 AG” for large size gears at the International Manufacturing Technology Show 2018 (IMTS2018) held in Chicago, USA from September 10th. Worldwide sales of INTEGREX i-200ST AG and INTEGREX e-1250V/8 AG will start during IMTS 2018 exhibition.

【Two models of the “INTEGREX AG series” exhibited at IMTS 2018】



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