

For immediate release

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With Art: Image of HU100A-5X

Mitsui Seiki to Demonstrate 2-Meter, Heavy-Duty HMC for Aero and Power Gen Parts

IMTS 2012 Booth S-8319

[FRANKLIN LAKES, NJ – MAY 2012] Mitsui Seiki will demonstrate a representative of its line of large capacity, heavy duty, and customizable machining centers at IMTS 2012 held September 10 – 15 in Chicago. The HU100A-5XL is aimed at a variety of manufacturing industries interested in versatile equipment for heavier applications, such as aerospace, power generation, refrigeration and compressor, mold and die, and off-road equipment. All of these industries have fundamental common requirements: machine rigidity, stiffness and high accuracy. The concept of customizable machines has been an integral aspect of Mitsui Seiki's machine tool building philosophy for many years, and the concept been recently standardized for the marketplace. The line is based on a set of standard modular components that can be arranged to suit specific customers' needs easily and affordably.

Mitsui Seiki's approach to providing customers with the ideal technical solution has just become easier. For example, users can choose axis travels from 1300mm to 2500mm, 4, 5, or 6 axes of continuous motion with a choice of a rotary table, trunnion table, or table on table. There's also a variety of spindle choices, including fixed spindles from 6000 rpm (50 hp, 2000 ft./lbs. torque) for heavy milling up to 20,000 rpm for high speed applications. Tilt or swivel spindle choices are available from 6000 rpm for heavy milling up to 12,000 rpm for high speed

machining. Mitsui Seiki also offers quill type spindles for precision boring with shorter tools. Of course, Mitsui Seiki applications engineers will assist customers in selecting the optimum component choices to meet their needs and objectives now and in the future. For example, the machines can be equipped with simple pallets changers to fully integrated FMS systems for work and raw material handling. Likewise, tool handling systems range from on-board magazines to central systems for more than 2500 tools.

The specific HU100A-5XL machine at IMTS 2012 is ideal for larger aerospace and power generation parts featuring an X, Y, Z work zone capacity of 2000mm x 1750mm x 1400mm. The machine accommodates a weight up to 11,000 lbs. (5000kg). Other compelling features include maximum spindle torque of 2,000 ft-lbs, CAT-50 Tool Taper, dual pallet changer, an automatic workpiece/fixture measuring and compensation system, non-contact laser tool setting device, 3D tool compensation, dynamic feature offset, and Fanuc 30iM control.

As with all Mitsui Seiki's machine tools, high accuracy and ultra rigidity come from the builder's attention to the basic structure, 3D FEM Design, hand scraping of all castings for geometry and frequency tuning, plus hardened and ground steel box ways. All critical components for the machines are designed, manufactured, and quality controlled in-house at one of the world's most advanced machine tool factories.

For more information, visit IMTS 2012 Booth S-8319, or contact Mitsui Seiki USA, Inc., (201) 337-1300, www.mitsuseiki.com.

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