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With Art: Image of Vertex 75X II

Mitsui Seiki Launches New Vertex 75X II Vertical Machining Center

[FRANKLIN LAKES – MAY 26, 2015] Mitsui Seiki has evolved its popular “Vertex 750-5X” line of machines with new features and capabilities, and a broader range of options and configurations within the series. The new model series, comprising six distinct models, is now called Vertex 75X II. Linear axes (X, Y, Z) strokes are 750 mm (29.5”) x 800 mm (31.4”) x 700 mm (27.5”).

One of the key new features is an enhanced ultra high accuracy package. This option enhances Mitsui Seiki’s existing, well-established construction techniques for accuracy and precision. As such, the Vertex line of machines are very well suited for tight-tolerance mold and die work, aerospace, energy, and other high precision component applications. Users can gain significant production improvements eliminating the traditional machine ‘warm up’ time for very demanding precision jobs. Machine geometry is still unparalleled, and Positioning Accuracy in X, Y, and Z axes is 0.001 mm (0.000040”). A-axis: ± 6 arc seconds; C-axis: ± 4 arc seconds.”

In response to customer feedback and market demands, Mitsui Seiki now offers a new 30,000 rpm spindle with the Vertex 75X II, in addition to the 15,000, 18,000 and 25,000 rpm choices. Customers can now take full advantage of the machine’s acceleration and deceleration characteristics and high speed machining functions. An HSK-80 taper

spindle connection (for those requiring more heavy-duty machining) is available as an option to compliment the existing HSK-63 and 40-taper tool interfaces.

The Vertex 75X II line includes several configurations in the range, based on table sizes and types from 225 mm (9") to 500 mm (19.7") diameter. A choice of rotary axis drive systems – high torque geared type or direct drive – allows for the optimum machine configuration to suit the customer needs.

Mitsui Seiki's tradition is to build rigid and ultra precise metal cutting and grinding machines. The Vertex 75X II geometric accuracy is carefully monitored in the tightest temperature-controlled factory environment in the world. The machine features a proprietary cast iron bed, which provides an ultra rigid, and thermally stable machine structure. A unique "box-in-box" design provides superior rigidity, stiffness and agility that is only available in a machine of this caliber. As will all Mitsui Seiki machines, guideway mounting surfaces are hand-scraped, achieving very high volumetric accuracies. This process is far superior to simply machined and /or ground systems. This engineering and construction concept, coupled with a newly designed machine, now provides users with even more competitive advantages over traditional, similar purpose products.

For more information, contact Mitsui Seiki at (201) 337-1300, www.mitsuseiki.com.

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