

For Immediate Release

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Mitsui Seiki Introduces Compact, Fast, 5X VMC with High Volumetric Accuracy

Will be demonstrated for first time at EASTEC 2005, Booth #1116

(Franklin Lakes, NJ – March 2005) Mitsui Seiki is unveiling its latest precise 5-axis vertical CNC machining center at EASTEC 2005, May 24 – 26th in Springfield, MA.

Named the “Vertex 550-5X” this machine has a new casting design which provides an ultra rigid machine structure. Another new feature is a unique gear drive system for the A and C rotary axes, which provides high speed radial performance (A – 30 rpm; C- 50 rpm), and overall drive system stiffness. Further, the trunnion tilt axis, A, now has an ample dual side support construction bolstering rigidity even more. Most VMCs on the market only support the rotary axis on one side, or both sides with small support areas. Also on the Vertex, the linear axes move the spindle only. The motion of the workpiece is by the rotary axes only, offering improved control of machine dynamics.

Specifications of the Vertex 550-5X include a compact footprint of about 7 feet wide by 11 feet long (2,000 mm x 3,300 mm). The X, Y, Z-axes work envelope is 21.6 inches x 23.6 inches x 17.7 inches (550 mm x 600 mm x 450 mm). All three move quickly at 1,890 ipm. With the A and C rotary and tilt axes, the Vertex 550-5X provides a total of 5 integrated axes of motion for virtually one setup machining of complex workpieces requiring maximum rigidity and accuracy. Prismatic parts in the aerospace, automotive, medical, dental, and mold and die industries are ideal to be produced on this

machine. The machine at EASTEC will have a 15,000-rpm spindle (25,000 rpm is optional). The machine also features a new control, the Fanuc 31i that is the fastest control available with enhanced features for precision high-speed 5-axis applications.

Mitsui Seiki's tradition is to build rigid and ultra precise metal cutting and grinding machines. The Vertex 550-5X's geometric accuracy is carefully monitored in the tightest a temperature-controlled factory environment in the world. The machine features a bed design that allows large part capacities with a small floor space requirement. This unique "box in a box" design provides superior rigidity and stiffness that typically is not available in machine of this size. The linear guides way mounting surfaces, both linear and rotary, are hand-scraped, achieving tolerances, which would be impossible to achieve on surfaces that are machined and ground.

This engineering and construction capability, coupled with a newly designed machine, provides users with enhanced competitive advantages over traditionally designed machines.

For more information, contact Mitsui Seiki USA, Inc., (201) 337-1300, on the web at www.mitsuisseiki.com, or visit EASTEC booth #1116.

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