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### **Mitsui Seiki Jig Borers and Precision Machining Centers at IMTS**

[Franklin Lakes, NJ – May 2006] Mitsui Seiki, one of world's only remaining suppliers of jig boring machines, is bringing one to IMTS 2006 in Chicago, September 6 – 13, along with a precision VMC and HMC. The company notes a resurgence in demand for jig borers. Scott Walker, President of Mitsui Seiki USA said: "Jig borers are, in terms of accuracy, mother machines -- the ultra precision equipment machinery builders use to make their own products."

The jig borer at IMTS will be the 6CN with an X, Y, Z envelope of about 40 in. x 30 in. x 12 in. (1020 mm x 760 mm x 300 mm). One of the factors that brought about the demise of the jig borer marketplace was the sturdiness of the equipment. Jig borers rarely wear out. Therefore, Walker believes major machine tool builders are placing these new orders not to replace existing machines but to increase their ultra precision machining capacity. This could mean that machine tool builders are looking to achieve major improvements in the accuracy of their own equipment. Improved conditions in the aerospace market are also contributing to this trend. Walker said that Mitsui Seiki, which manufactures three models of jig boring machines, is committed to these markets.

Mitsui's horizontal machining center at IMTS will be the HU63A-5X, a the mid-size machine in Mitsui Seiki's tilting trunnion table range, with a work envelope of about 35 in. x 31 in. x 31 in. (900 mm x 800 mm x 800 mm). The horizontal CNC machine holds 0.00012 in. true position (ISO 230-2) through all linear axes, and 0.001 degree resolution on B and C rotary axes which, according to the company, are the highest accuracies in the industry.

The company will also demo its Vertex 550-5X with automatic load/unload equipment at the Show. This machine has 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 approximately 22 in. x 24 in. x 18 in. (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.

For more information, visit IMTS 2006 booth A-8018 or contact Mitsui Seiki USA, Inc., (201) 337-1300.

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