

New Jig Mills Offer Accuracy, Rigidity for Moldmaking Applications

Mitsui Seiki USA, Inc. has announced a new series of large CNC jig mills suitable for mold base production, mold plates, precision hot runners, progressive and transfer dies, and other jig boring and milling applications.

"The fixed crossrail, massive ram design of the new Jig Mill J1620 and 1620X machines provides a straightness accuracy in X and Y axes better than 10 microns,"

said a company spokesperson. "Table squareness to the Z-axis is better than 10 microns."

"Our design offers significantly tighter control in boring operations than conventional moving/sliding crossrail configurations," said Thomas Dolan, Vice President.

Working size range for the J1620 is

2,100 mm x 1,600 mm 500 mm (XYZ).

Table size is 2,400 mm x 1,600 mm with a load capacity of 4,000 kg. With the J1620X version, all of the specifications are the same except X-axis is

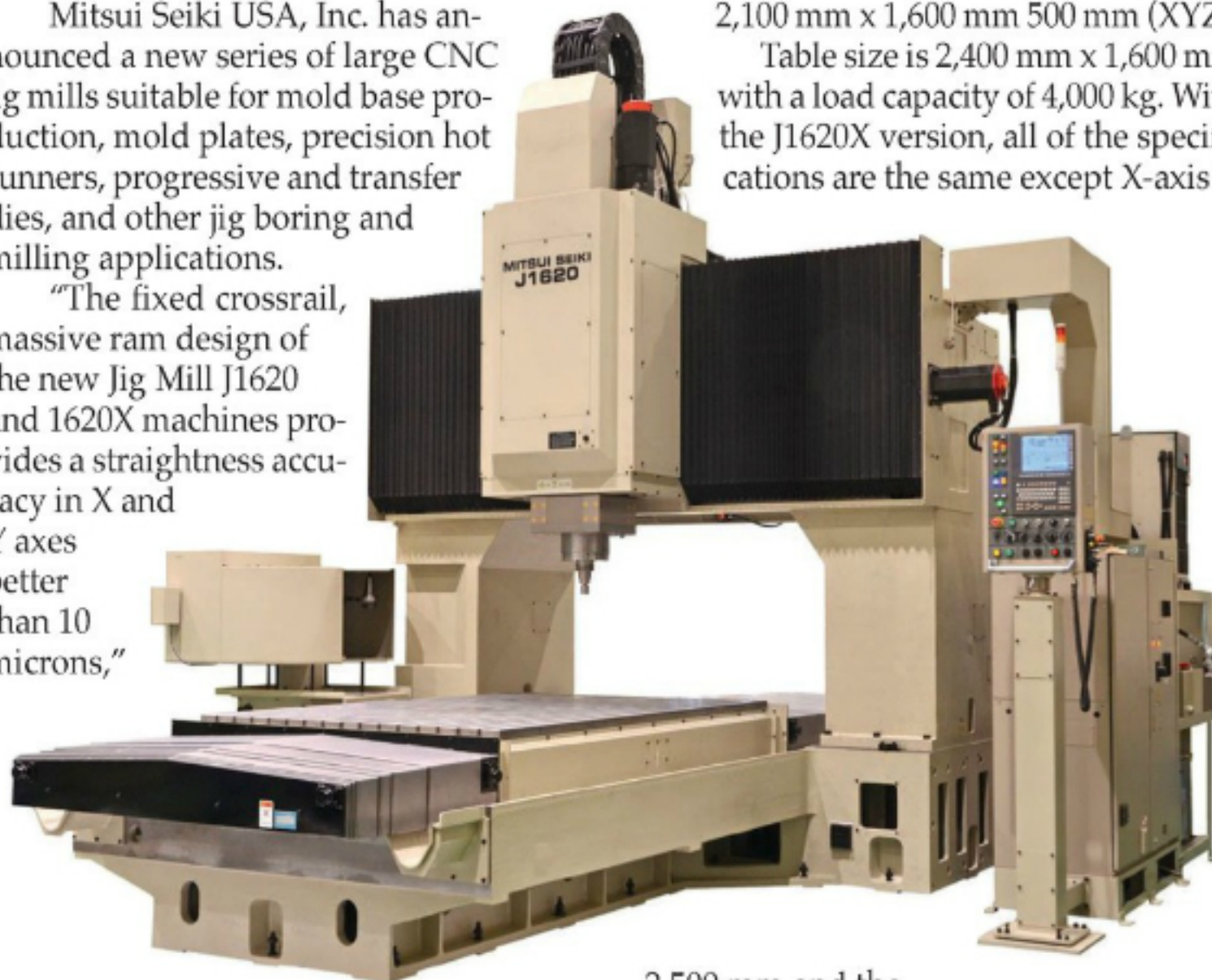
2,500 mm and the table is 2,200 mm x 1,500 mm. A variety of CNC U-axis boring heads are available on both models.

The machines feature a 10,000 RPM built-in integral spindle with a 50 taper interface. The spindle technology controls growth and provides thermal stability. Customers can choose from a variety of tool changer units with capac-

ities from 10 to 180 tools and more. Likewise a variety of coolant and chip evacuation systems can be chosen to match the customer's needs.

Ultra-precise probing is also an option as an aid to workpiece set-up and in-machine inspection functions. The FANUC 30i-B control is designed to combine user-friendliness and accuracy, reliability and efficiency. Machine enclosure and guarding options on the jig mills meet current environmental, health and safety standards.

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