



For immediate release – IMTS 2022 Coverage

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With Art: Image of PJ 303X machining center

Mitsui Seiki 5-Axis Machining Center Provides High Precision and Versatility

For Processing Smaller Workpieces

SEE IT AT IMTS BOOTH 338700

[Franklin Lakes, NJ – June 2022] [Mitsui Seiki's](#) PJ 303X 5-axis machining center provides maximum precision and versatility in processing of workpieces up to 230mm tall and 280mm in diameter (9" x 11"), and 20 kg (44 lbs.) in weight. IMTS 2022 visitors can see it in action in booth 338700 in the South Hall of McCormick Place in Chicago. The show runs from September 12 – September 17. Typical applications cover an extensive range of critical parts such as lens molds, medical products, EDM electrodes and fuel cell components.

While many in the industry may think of Mitsui Seiki machines for heavy duty machining of large, critical components, the PJ303X is designed to accurately machine smaller parts. Its X-, Y-, and Z-axis travels are 300mm, 325mm, and 200 mm (11.8", 12.8", 7.9") respectively. A-axis rotation is +40° to -100°, and the C-axis rotates a full 360°. High-speed linear motors move the X-, Y- and Z-axes, while the rotary axes employ direct-drive motors. Rapid traverse speed for the X-, Y-, and Z-axes is 20 m/min (66 ft/min).

A 50,000-rpm, HSK-E25 taper spindle offers high-speed machining capability. An automatic tool changer engineered to store up to 24 tools as large as 40mm (1.57") in diameter and 100mm (3.9") in length provides tooling versatility.

To maximize precision, the attachment surfaces of the ways as well as other critical areas of the PJ 303X are hand-scraped. Advanced spindle thermal displacement technology is standard, including a symmetrical gantry column structure that accommodates thermal deformation fluctuations and a thermal compensation mechanism for the machine spindle/head.

Operator-friendly features further enhance precision, including a 15" display with touch panel capability

than can be moved to the most convenient position relative to the work envelope. The control is the new Fanuc F31i-B5 with the i-H Pro control panel. The machine's double-stage rotary door provides wide access for visibility and setup.

The PJ 303X consumes a compact 1,755 mm (5.75') x 2,375 (7.79') x 2,890 (9.48') (W x L x H) of floor space, and weighs approximately 5,500 kg (12,000 lbs).

Mitsui Seiki USA chief operating officer Bill Malanche said, "The compact PJ 303X machining center provides high precision, speed and versatility for the processing of an important range of part sizes across a wide variety of applications."

For more information, visit IMTS 2022 booth 338700 in the South Hall of McCormick Place - Chicago, or contact Mitsui Seiki at (201) 337-1300, www.mitsuisseiki.com.

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