

**Tongtai TMV-1050Q-II Ultra-High Performance
Vertical Machining Center
Amerimold 2013, Booth #507**



At Amerimold 2013, machine tool importer Absolute Machine Tools will exhibit the TMV-1050Q-II ultra-high performance, heavy duty vertical machining center from Tongtai Machine & Tool Co., Ltd. Well suited for both high-volume machining applications as well as mold/die work, the machine combines speed, rigidity and precision as it features a 15,000 RPM direct-drive spindle, 1,890 ipm (47,250 mm/min) rapids on all 3 axes, as well as oversized servo motors and ballscrews.

Generous work volume results from X-Y-Z travel of 41.3", 23.6", 20.8" (1032mm, 590mm, 520mm) respectively, and a 43.3" x 23.6" (1082mm x 590mm) work table. Constructed with heavy Meehanite FC-30 castings that provide the strength and vibration dampening characteristics necessary for excellent surface finishes and long cutting tool life, the machine features NSK linear ways on all axes with large diameter (40mm /1.57") pre-tensioned ballscrews. High rigidity enables cutting feed rates from 0.01 to 944 IPM, positioning accuracy of +/- 0.0002" (0.05mm), and repeatability of +/- 0.0001" (0.0025mm)

The standard high-performance 15,000 RPM, 15HP high torque direct-drive spindle is oil cooled for thermal stability. Electronic high/low switch gear provides a range of power and torque. The 70mm (2.75") spindle shaft has 6 bearings to maximize stiffness and cutting stability. The machine is equipped for high pressure through-spindle coolant, and optional 300 PSI or 1000 PSI coolant pumps can be added to further enhance productivity.

A standard 30-tool high-speed synchronous-arm-type automatic tool changer provides 2 second tool changes for maximum productivity. Standard twin screw-type chip conveyors discharge at the rear of the machine to minimize cleaning time. A standard caterpillar lift-up style chip conveyor carries chips to a hopper.

A Fanuc 31iM-B control is standard, and its full conversational Manual Guide i shop floor programming system facilitates ease of use. An optional high speed machining package permits high speed point-to-point machining capability.

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