

For Immediate Release

News From: Absolute Machine Tools, Inc.

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With Art: Tongtai CT-350

Introducing the Tongtai CT-350 VMC – High-Speed Five-Axis Machining in a Small Footprint

[LORAIN, OH – DECEMBER 2015] The new CT-350 five-axis [Vertical Machining Center](#) from Tongtai features state-of-the-art performance in a small footprint.

The CT-350 boasts high-end machine construction and performance at an affordable price. The structure of the CT-350 is a “C” frame-type machine and was designed around high level mold-type machining centers to ensure rigidity during cutting. The column of the CT-350 has a wide span making it torsion-resistant while cutting a 5-axis part. Rigidity is enhanced by using 45mm roller type guide ways and pre-tensioned, large-diameter ballscrews.

The CT-350's table size is 13.78” diameter and can handle a maximum load of 440 lbs. The integrated rotary table uses the roller gear cam in both the tilt and rotation axes. The roller gear cam design provides zero backlash, high rigidity, and fast rotation speeds. The stroke on this machine is 15.75” in X, 20.08”, in Y and 20.08” in Z. The A-axis stroke is +30° through -120°, and the C-axis stroke is 360° with rotation speeds of 40 rpm and 33 rpm, respectively. The CT-350 is truly high performance with rapid feed rates of 1,418”/minute in X and Y, and 1,182”/minute in Z. A 20HP direct-drive 15,000-rpm Big Plus 40 taper spindle with air/oil mist lubrication is standard in the CT-350, however an optional

20,000-rpm integral spindle is also available. For enhanced productivity, the standard 24-position arm type tool changer is equipped with a roller gear cam mechanism to reduce tool change time to only 2 seconds. Larger 30- and 40-tool ATCs are optional.

The CT350 is equipped with a [FANUC](#) OiM-F CNC control to perform 4+1-axis cutting. However, if 5-axis simultaneous cutting is necessary, a FANUC 31iM-B5, Siemens 840D or Heidenhain iTNC-640 can be installed.

Tongtai has several different models of 5-axis machining centers. The HTT-1250 is a large horizontal machine for aerospace applications with 50" tilt/rotary table. The GT-800 and GT-630 are gantry-type high-speed, high feed rate machines with 31.5" and 25" tilt/rotary tables, respectively. The MDV-551-5AX is a small, double-column-type machine with high-speed rotation and a 20" tilt/rotary table. The new CT-350 is Tongtai's smaller 5-axis machining center with a small footprint for shops that need a 5-axis machine, but do not have the floor space for a larger machine tool.

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About Absolute Machine Tools, Inc.

Absolute Machine Tools, Inc. sells and supports Nexturn Swiss-type lathes; Precihole gun drilling machines; AccuteX EDM wire, sinker, and hole drilling machines; You Ji Vertical Turret Lathes; Johnford Sliding Double Column Machining Centers; and Tongtai Horizontal Machining Centers. The company has worked with several of its principal machine tool partners for 26 years to offer some of the most heavy-duty, accurate, and productive machines in the industry. The company has built its reputation on exemplary

applications engineering, service, customer support, comprehensive training, and effective preventive-maintenance programs. In addition to its headquarters in Lorain, Ohio, the company has established direct full-service technical centers in Mason, Ohio; Elgin, Illinois; and Livonia, Michigan.