

IMTS 2018 NEWS – For Immediate Release

News From: Absolute Machine Tools, Inc.
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With Art: You Ji VTL-1200A TC+C

**You Ji VTL-1200ATC+C Heavy Duty Vertical Turning Lathe
at IMTS 2018 Booth S-338536**

[LORAIN, OH – JUNE 2018] – The You Ji VTL-1200ATC+C is a 49” table / 63” swing [vertical turning lathe](#) with full C-axis and live milling for heavy duty turning and milling of large sized workpieces. On display at IMTS 2018 in booth S-338536 by Absolute Machine Tools Inc., this heavy-duty, highly productive VTL weighs in at 72,600 lbs. and features a rigid vertical column and a Meehanite castings base which is heavily ribbed for reduced thermal distortion and vibration dampening. The machine has a symmetrical base and column design. It is designed for stand-alone applications or easy integration into production lines. The machine, which is suitable for industries such as aerospace, oil-field, and energy, can be customized to meet virtually any production requirement.

The X and Z axes are a box way design with Turcite B applied to mating surfaces and hand scraped for precise fit and alignment. The ways are completely enclosed and a forced lubrication system assures high precision. This rigid system enables heavy duty machining and high precision. The Z-axis is a large 9” square ram made from cast steel that is extremely rigid even when extended the full 35.4”. The precision class 3

ballscrews are driven directly by the servomotors, eliminating belts or gears for high precision. The cross rail is moveable on box ways and is hydraulically clamped for rigidity and accuracy. The cross rail's movement is programmable and can move in 200mm increments. The rail is clamped in position by positive locking pins to insure the cross rail is always level.

The spindle construction is a heavy-duty design incorporating a high precision 24" O.D. / 18" I.D. Timken Cross Roller bearing to endure high axial and radial loads. The spindle also is protected from coolant contamination. Tremendous table torque is developed by the 60 HP Fanuc high torque spindle motor coupled with the 2 speed ZF gear box. The 2 speed ZF gearbox transmits power through another intermediate gearbox and the table is then driven by a class 1 ring and pinion gear which provides a further gear reduction and torque multiplication. Spindle / table torque is an amazing 9,220 ft./lbs., providing the power for heavy duty machining. A 100HP table drive motor is optional for brute force turning.

The full 360,000 position Cf-axis table is driven by automatically engaged / disengaged worm gear with a separate servo motor and gearbox. The C axis is highly accurate due to the high resolution rotary scale mounted in the center of the table, reading true table position. The 2400 RPM live milling spindle features a 20HP spindle motor plus 2-speed gearbox, delivering exceptional power and torque for heaving milling, drilling, and tapping.

The ATC stores 16 tools with a #50 taper (#60 taper optional) tool attachment. This umbrella style ATC provides shortest route tool selection and is completely shielded from chips and coolant. 32, 48, 60, and larger tool magazines are optional. Chip control is excellent as chips and coolant wash directly into the standard chip conveyor and the full square guard enclosure contains chips and coolant.

A highly reliable Fanuc OiT-D control with Manual Guide i Conversational programming is standard.

For more information, visit IMTS 2018 booth S-338536, browse www.absolutemachine.com, or call 800-852-7825.

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About Absolute Machine Tools, Inc.

Absolute Machine Tools, Inc. sells and supports Johnford Bridge & Gantry Mills; You Ji Vertical Turret Lathes; Tongtai Horizontal Machining Centers (former Hitachi-Seiki OEM); Quicktech Multi-Axis Multi-Spindle Mill/Turn Centers; Lico Multi-Slide [CNC Screw Machines](#) and Twin Spindle Multi-Slide Mill/Turn Centers; Nexturn Swiss-type Lathes; AccuteX Wire EDM and Die Sinker Machines; APEC 5-axis Gantry-style Linear Motor Machining Centers; and Precihole Gundrilling Machines. The company has worked with several of its principal machine tool partners for over 25 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.

For more information, contact Absolute Machine Tools, Inc. at 800-852-7825
or www.absolutemachine.com.