For Immediate Release

News From: Absolute Machine Tools, Inc.
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With Art: Tongtai MT Series Machine with New Colors

New MT Series Lathes from Tongtai Triples has

Twin Spindles and Individual Machining Zones

Tongtai's newest MT Series Lathes were developed for improving cycle times and turning processes for the automotive industry where small parts are typically made within 60 seconds. After many years of working together on customizing machines and turnkey projects with automotive customers worldwide, Tongtai developed the MT series for precision turning, high production volume, automatic production, and insertion into mass-production lines.

The MT Series has twin spindles and two individual machining areas. The turrets and spindles are designed parallel to each other. This design makes parts which need two processes be finished on one machine. With the addition of a gantry-type robot, utilization of floor space increases while labor costs decrease. Depending on cycle time, single robot arm/single stocker and twin robot arms/twin stockers for high production chucking work are both available on the MS/MT series CNC lathes. These lathes come equipped with either 6" or 8" chucks on spindles that rotate at 6,000/4,500 RPMs respectively. The MT control offers a robot teaching function that the operator can adjust positioning. The function coordinates the robot arm, on-screen positioning diagram, input coordinates, number and names of positions, 3 axes settings and single axis settings.

The work area on the main structure of the lathes has two individual working areas whose bed structure is separate. This design decreases the transferring of harmonic vibration providing excellent machining accuracy and high quality surface finishes. The compact structure allows for a short cutting flow from start to finish which enhances machining rigidity and heavy cutting ability. Maximum swing diameter is 210mm with a machining diameter of 210mm or 120mm (with robotic arm), and machining length of 145mm or 100mm (with robotic arm).

The MT series lathes are equipped with workpiece positioning protection to ensure sealing between the workpiece surface and chuck. Pneumatic pressure leaks can be detected, and if this occurs, the robot arm will reload the workpiece. Gantry type robotic arm is able to process 3 axes movement and is driven by a servo motor. The programmable arm allows the operator to adjust positioning points and moving routes. Rapid traverse for the robotic arm are 160m/minute in X, 120m/minute in Y, and 35m/minute in Z. The rotary axis moves at 180° in one second.

The pallet stocker comes in 3 types, 3 poles and a center, 3 poles, and central pole type. The number of pallets range from 10, 14, and 16 with allowable part diameters all at 30mmΦ through 150mmΦ.

The MT series comes standard with coolant through the spindle, A2-5 or A2-6 spindle nose, 0.001" indexing increments, 4,500 RPMs or 6,000 optional. With cutting feed rates of 0.001-5,000mm/minute this horizontal turning center is perfect for high production fast-paced manufacturing environments.

For more information, contact Absolute Machine Tools, 800-852-7825, absolutemachine.com.

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About Absolute Machine Tools, Inc.

Absolute Machine Tools, Inc. sells and supports Nexturn Swiss-type lathes; Precihole gundrilling 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.