IMTS 2016 NEWS – For Immediate Release

News From: Absolute Machine Tools, Inc.
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With Art: Tongtai MT Series Lathe

New Tongtai MT Series Lathes have Twin Spindles

and Individual Machining Zones.

See one in action in IMTS 2016 Booth S-8536

[LORAIN, OH – JUNE 2016] 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. Absolute Machine Tools will be exhibiting this series at IMTS 2016 in booth S-8536. 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 front facing spindles and two individual machining areas. The turrets and spindles are designed parallel to each other. This design allows parts which need two processes to be finished on one machine. With the standard dual gantry overhead robots and twin 14 pallet parts stockers, utilization of floor space increases while labor costs decrease through automation. Depending on the application, a single robot arm/single stocker or manually loaded versions are 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 series comes standard with coolant through the spindle, A2-5 or A2-6 spindle nose, and up to 20 HP spindle motors. C axis and live tools are available options.

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 part size when utilizing the gantry robots is 4.7” diameter x 3.94” long and without using the gantry robots is 8” diameter x 5.7” long.

The gantry type robotic arm is able to process 3 axes movement and is driven by servomotors. The programmable arm allows the operator to adjust positioning points and moving routes. The MT control offers a robot teaching function so that the operator can easily adjust positioning. The function coordinates the robot arm, on-screen positioning diagram, input coordinates, number and names of positions, three axes settings and single axis settings. The MT series lathes are equipped with pneumatic workpiece part detection 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. Rapid traverse for the robotic arm are 6304”/minute in X,

4728”/minute in Y, and 1379”/minute in Z. The rotary axis moves at 180° in one second. Each gantry robot can handle 2 parts weighing 6.6 lbs. each.

To further enhance productivity, a part turnover device is standard, allowing the machine to drop completely finished parts without operator intervention. The left gantry can place the part in the device, the device rotates 180 degrees and then the right gantry picks up the part and loads it in the spindle.

To reduce operating costs and environmental impact, the MT Series is equipped with LHL automatic grease lubrication system, eliminating waste oil and nearly eliminating coolant contamination. In addition, a variable frequency drive hydraulic unit reduces power consumption 55% over a conventional hydraulic unit.

For more information, visit IMTS 2016 booth S-8536, call 800-852-7825, or visit www.absolutemachine.com.

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