



**For Immediate Release**

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*With Art:* AU-1440iA Z800 Submerged Wire EDM

**AU-1440iA Z800 Submerged Wire EDM From Absolute Machine Tools  
Provides Large Capacity, Flexibility and Speed**

[LORAIN, OH – April 1, 2015] The new AU-1440iA Z800 Submerged Wire EDM From Absolute Machine Tools is engineered to process large as well as smaller parts with accuracy, speed and convenience. The machine's X axis capacity of 55.11" (1378 mm) with 31.49" (787mm) in Y and Z enable it to handle workpieces up to 68.5" x 42.5" x 31.29" (1712mm x 1062 mm x 782 mm) in size.

The machine structure, designed via Finite Element Analysis (FEA), includes a Meehanite cast honeycomb-type base, highly-ribbed column mounted with oversized UVZ axis, and a reinforced lower-arm to increase stiffness. To maximize durability, the 5.9" (148 mm) U and V axes are protected in a cabinet located above the working area. All castings are stabilized to ensure maximum strength, reliable high precision and long durability when machining workpieces as heavy as 7,473 kg (16,440 lb.). The rigid structure and 20mm C1 Class U-V ball screws provide repeatable precision at the high flushing pressures necessary for high-speed cutting.

A precision hardened-stainless-steel workpiece-mounting table offers easy accessibility and is designed to function as a standard clamping system, permitting a wide range of workpieces to be fixtured quickly and accurately. The worktable can also accommodate any commercial clamping system.

AccuteX's exclusive automatic wire threading (AWT) system enhances machining speed by accomplishing fast submerged rethreading at the break point. When wire breakage occurs, rethreading takes place without dielectric drainage/refilling, resulting in spark-to-spark times as low as 15 seconds. The system also includes a scrap wire disposal unit.

A 64-bit Windows CE Based PC CNC system drives machine axes via closed loop, direct coupled AC servomotors, with 8 millionths resolution confirmed by a Heidenhain linear glass scale feedback system. The patented structure of the machine's Hiwin linear guideways reduces up to 90 percent of friction and vibration to produce unwavering accuracy of motion. Resulting positioning accuracy is  $\pm 0.00012$ " and repeatability  $\pm 0.00008$ " in X & Y.

Steve Ortner, president and owner of Absolute Machine Tools, said, "The AccuteX AU-1440iA Z800 EDM enables shops to easily process both large and smaller parts. The machine's strength, speed, and accuracy assure maximum flexibility and productivity."

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About Absolute Machine Tools, Inc.

Absolute Machine Tools, Inc. sells and supports Nexturn Swiss-type lathes; Preci-hole 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 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., 800-852-7825, [www.absolutemachine.com](http://www.absolutemachine.com).

