

NEWS

FOR IMMEDIATE RELEASE:

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New Milling Machine with Unique Features and 60,000 RPM Spindle Provides Affordable, Highly Efficient Micro Machining.

FOR IMMEDIATE RELEASE (May 22, 2003, Milford, NH) – Datron Dynamics, Inc. is introducing its new M35 Aluminator™ High-Speed Machining Center here at the EASTEC Show, Booth 3363. The M35 offers ultra-high speed machining via a 60,000-rpm spindle. When combined with a large bed size, unique workholding accessories and oil-free coolant, the machine provides shorter cycle times, fewer secondary operations and superbly clean and accurate, burr-free part machining.

"With pricing as low as \$55,000 U.S., the M35 offers a high-quality machining solution with incomparable value on tooling applications of 0.25" OD or less for aluminum and other non-ferrous materials, said Datron President Dr. Walter Schnecker.

The M35 Aluminator is also optionally furnished with Datron's unique, Quick-Pallets™ modular workholding system that uses a vacuum to hold special templated plates or pallets, allowing the machining center to perform fast and easy part setups and changeovers. Pallets are simply placed on the machining bed, automatically keyed to a fixed position and secured via vacuum. Changing a pallet requires no tooling or clamping, dramatically reducing setup time from an average of 30 minutes to 30 seconds.

When cutting aluminum, its integrated, micro-mist alcohol-coolant system provides superb, clean, part-surface finishes, eliminating deburring or degreasing secondary operations, saving valuable production time.

The M35 Aluminator also has a large bed size (40 X 27"), a machining area of (40 X 27 X 8") and a knock-out area to allow vertical clamping or a continuous bed for larger or unconventional parts. However, the overall machine size and footprint is very compact and requires only 208V single phase power.

It's optional 60,000 RPM high-frequency spindle with feed rates up to 400 inches per minute for all axes allows rapid cutting through non-ferrous materials, dramatically reducing machining times. At these high-spindle speeds, less force is generated for fast and accurate cutting.

Precise cutting accuracies with a repeatability of +/- 0.0004" and a resolution of +/- 0.00006" are also gained through the machine's stable bridge-style design, steel construction and polymer-concrete bed.

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The M35 also protects itself against serious damage. Operators can't bend the ball screws or the guideways. Datron's high-speed digital servodrives constantly monitor the resistance on the axis. If the load on a drive ever increases beyond normal parameters during machining, the machine will automatically stop. To protect the ball screws and guideways, the machine can never be moved beyond its work envelope. The system also has an integrated safety enclosure with lockout feature.

A Windows® driven Pentium-based PC control offers easy-to-use canned cycles with an intuitive control that uses look-ahead buffers and diagnostic features. A new smoothing feature in the software allows machining programs to be optimized for surface finish and cycle time. A hand-held pendant is included, designed for easy machine control and operation.

Applications for Datron's M35 Aluminator include automotive and aerospace parts manufacturing, panel manufacturing, engraving, 3D-mold making, rapid prototyping, EDM-graphite electrode production, and milling electronic circuit boards.

Available options include: Datron Quick Pallets workholding solutions, 1HP 60,000rpm spindle, Z- height correction sensor, edge-finding ability, pneumatic quick-clamp system, 15 or 30 tool changer with tool-length sensor, programmable RPM control software, extensive CAD/CAM interfaces, 4th and 5th axis and special tooling.

About Datron: Datron Dynamics is the North American distributor for Datron Electronic, a German technology firm established in 1969 that has become a leader in the design and development of CNC machining and dispensing systems. Founded in 1996 by President, Walter Schneckner, PhD. and Vice President, William King, Datron Dynamics is differentiated in the marketplace by its focus on high-speed machining with micro-tooling in aluminum, plastics, and non-ferrous metals. Datron machines feature 60,000 RPM spindles that produce low force, feed rates of up to 1000"/minute and superior quality when tooling 0.250" and under. An integrated spray-mist ethanol alcohol coolant system provides for superb surface finishes, eliminates secondary processes like de-burring or de-greasing, saves production time, and helps to protect the environment. Other features like a Z-Correction Probe™ that locates parts and material irregularities in the X, Y, and Z co-ordinates, an automatic tool checker/changer, as well as Quick-Pallets™ and Vacuumate™ workholding systems enable "lights-out" production and justify the company's tagline, "*Smart CNC Machines*". Additionally, these distinctions have resulted in over 1,000 installations worldwide within industries requiring superior production of EDM electrodes, hot stamping and embossing dies, 3D mold making, rapid prototyping, 3D precision engraving, front panels and the production of automotive and aerospace parts.

For more information on Datron's M35, contact Robert Murphy at Datron Dynamics, Inc. 454 Route 13, Milford, NH 03055, 888-262-2833, www.DatronDynamics.com. E-Mail: info@datrondynamics.com.

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