DATRON
DYNAMICS, INCORPORATED

NEWS

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DATRON DYNAMICS INTRODUCES THE MAXIMISER™: A HIGH-SPEED CNC ROUTER WITH AN EXCEPTIONALLY LARGE MACHINING AREA

Milford, NH, September 1, 2004 – The MaxiMiser™ High-Speed, Router launched today by Datron Dynamics, Inc. provides machining manufacturers with a working envelope of 60" x 98" x 7". By far the largest machine offered by the company, the MaxiMiser still features the speed and precision that have earned Datron a place in the high-speed, micro-machining niche.

Overall speed or improved cycle-times are produced by a 60,000 RPM spindle that allows manufacturers to achieve feed rates of up to 1,000 inches per minute when using tooling of 0.250" or under. The large bed size facilitates batch machining and "lights-out" production rather than single-part production because the bed accommodates very large workpieces or blanks such as sheet material. Tee-nuts fixed on the table provide additional flexibility to use customized clamping or workholding devices that minimize set up and job change over time.

A high level of precision is facilitated by a heavy steel base and a massive granite table that dampens vibration while a coordinate system and X,Y,Z probing guarantees repeatability to +/- 0.05 mm.

An integrated Ethanol-Mist Coolant System™ provides for superb surface finishes and eliminates secondary processes like de-burring or de-greasing to further improve cycle times. Datron's Microsoft® Windows®-based controller facilitates integrated networking by working with virtually any CAD/CAM software, providing Ethernet networking capability, as well as remote monitoring and control, allowing the machine to seamlessly integrate into any manufacturing environment.

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The MaxiMiser also features an Automatic Tool Management System™ that is made up of three separate components working in concert: the tool checker, the tool changer, and the tool database. The tool checker is a mechanical sensor that measures tool length and detects the broken tool. The tool changer is a rack with has space for spare tools, as well as empty sockets where the machine places broken tools before picking up a replacement. Operators can stock the rack with spare tools, thereby having a ready supply should tools break during "lights out" operation. The tool database is a macro program that can be set up to run a tool check after executing a number of lines of code. For instance, a tool check macro can initiate a check after every 500 lines of code by employing an "if/then" statement such as, "Measure this tool; if the length is shorter than the listed parameter, then change the tool."

Options include various spindles up to 4.5kw and up to 60,000 RPM, 4th and 5th axes, a pick and place system, several 3D probing options, integrated edge-finding capabilities, a Micro-Jet Oil Cooling System™ (for use with stainless steel) and C-height surface mapping.

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 Schnecker, Ph.D. and Vice President, William King, Datron Dynamics is differentiated in the marketplace by its focus on high-speed machining with micro-tooling. 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 Ethanol-Mist Coolant System™ provides superb surface finishes and eliminates secondary processes like de-burring and de-greasing while being environmentally friendly. Other features such as the Z-Correction Probe™, Automatic Tool Management System™ and their proprietary Quick-Pallets™ and Vacumate™ workholding systems enable batch machining and "lights-out" production. 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.

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For more information on Datron's VelociRaptor, 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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