

## NEWS

FOR IMMEDIATE RELEASE:

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### **The excelsiorGR™ High-Speed, Industrial CNC Engraving Center – Designed for Faster Production and Improved Efficiency in Redressing Graphite Complex RAM EDM Dies.**

FOR IMMEDIATE RELEASE (December 9, 2003, Milford, NH) – Datron Dynamics, Inc. has introduced the excelsiorGR™ – a high-speed, CNC machining center designed for intricate tooling and superior surface finishes that is equipped with positive airflow protected ball-screws, as well as an automatic central greasing system to maximize efficiency in machining abrasive materials such as graphite and ceramics. The enclosure is designed for optimized airflow and can be fitted to work with an existing graphite dust collection system.

While the excelsiorGR has a small footprint of 48" x 62" and requires minimal floor space, it still features a comparatively large working envelope of 15.75" x 15.75" x 7.8" and offers an open height of 11.8". The compact design combined with the 208V/7A power requirement allows the machine to be placed right next to a RAM EDM machine.

Standard, graphite, tool-holding systems can be used for workholding on the excelsiorGR allowing electrodes to be machined and redressed with speed and quality. RAM EDM electrodes can be efficiently redressed on the shop floor and to generate savings of CNC machine times, as well as graphite material.

With a 60,000 RPM, pressurized, 3HP spindle, the tooling goes through the graphite easily with feed rates of up to 400 inches per minute and the pressure further prevents dust from entering the bearings.

The excelsiorGR comes with an automatic tool changer to increase speed and is equipped with an integrated tool-length sensor to shorten tooling setup. Plus, a Renishaw TP-20 probe can be added for additional efficiency in setup.

The excelsiorGR comes with a Windows-based, PC Operating System (OS), which offers canned cycles with an intuitive control that uses look-ahead buffers. The control also offers a smoothing function that uses NURB technology to smoothen geometry for superior finishes and faster cycle times. The included hand-held pendant is designed for easy control and operation. Additionally, the Datron OS integrates with any CAD/CAM software package.

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**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, 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 Vacumate™ workholding systems enable "lights-out" production and justify the company's tagline, "*Smart CNC Machines*". Additionally, these distinctions have resulted in thousands of 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 excelsiorGR, contact Robert Murphy at Datron Dynamics, Inc. 454 Route 13, Milford, NH 03055, 888-262-2833, [www.DatronDynamics.com](http://www.DatronDynamics.com). E-Mail: [info@datrondynamics.com](mailto:info@datrondynamics.com).

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