

## Your entrée to excelsior<sup>®</sup> Class High-Speed machining.

Datron's excelsior<sup>®</sup> Lite was designed specifically for manufacturers who need our innovative high-speed technology but, for budget reasons, are considering low-cost equipment. So that you can "have your cake and eat it too", we carefully cut a few corners without sacrificing the core integrity of our technology. For example, the excelsior Lite has an aluminum bed rather than the granite table found on its big brother the excelsior<sup>®</sup> EX. While this does impact rigidity to some extent, this may not be critical to your application — so why pay for something you don't need? Our goal is to offer a solution to fit every wallet. And if this **\$59,800** price tag fits your wallet, we're confident that the compact footprint will fit your floor plan.

### With excelsior<sup>®</sup> Lite, "economy" is about what you get ... not what you don't.

While it's possible to hit an "economy" price point by offering *satisfactory* technology, we're Datron ... and we just can't do that. That's because our high-speed machining centers are designed and built in Germany — where everything from automobiles to beer is produced according to strict standards, and with more than just a little bit of stubborn pride. So, the development of an "economy" machine actually took the minds of engineers — to know exactly what to leave in and what to leave out. In the end, the excelsior Lite includes an *above average* list of **standard features**:

- > 20" x 20" machining area
- > 1.2kW 30,000 RPM spindle
- > 5-tool Automatic Tool Changer
- > Windows<sup>®</sup>-based 3D control software
- > C3 1GHz PC with 256 MB RAM
- > 15" CRT monitor, keyboard & controller
- > Ethernet capability, CD-ROM & USB ports
- > Remote monitoring capability
- > Enclosure with safety lock-out
- > 6-Month Limited Warranty (workmanship and materials)

### Tear through METAL like a hot knife thru warm butter with a 30,000 RPM spindle.

A compact/rugged design, protected precision ball screws and a 30,000 RPM spindle give the excelsior Lite the durability and speed to machine non-ferrous metals like aluminum, copper and brass. The blazing RPM rate evacuates chips, and the heat associated with them, from the cutting channel. It also results in lower machining forces and less vibration. All of this facilitates exceptionally high feed rates and improves the quality of the cut and surface finish.



Note: Photo shows machine with optional 17" flat-screen monitor.



### High-Speed CNC Machining at Low Cost:

- > Mill, drill, rout, engrave, thread mill & countersink on 1 machine!
- > Machine and engrave metals and plastics at high speeds & feeds
- > Auto Tool Change with tool length sensing & tool database
- > Spray-mist coolant for superior cut and burr-free finish!
- > Integrated workholding options for quick job setup & changover

**Priced to move (you into high-speed machining).**

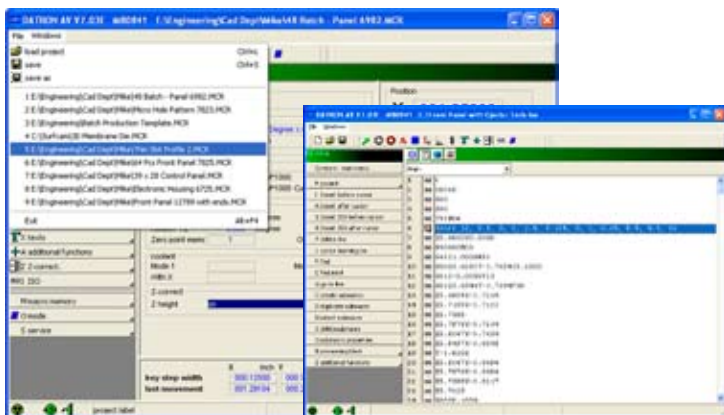
**Call toll free 888.262.2833**

**WARNING:** Utilizing the power and flexibility of the ✦ **excelsior<sup>®</sup> Lite** may be hazardous to your competition.



## You get more than just a great price. You get a Datron.

The first thing new Datron operators notice is that our machines are rock solid. And the excelsior<sup>®</sup> Lite is no exception. A large machining table and full enclosure feature a solid steel base. This combination that delivers both **superior safety and stability**. X, Y, Z agility is put in the palm of your hand by virtue of our hand-held controller (included as a standard feature). The excelsior Lite, like all other Datron machines, has a precision ball screw for superior accuracy. Drives are covered and protected from chips and debris — resulting in the ability to machine metal with minimized vibration and maximized accuracy.



## Precision and control at your fingertips.

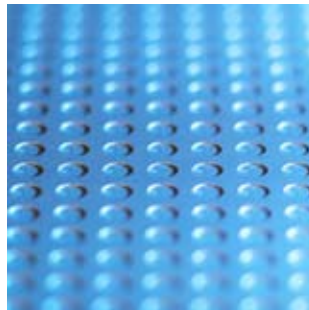
As the leader in CNC innovation, we know that just because our product is so complex doesn't mean our controller should be. After all, our job is to make your job easier ... and machine operators rely on Datron for agility and efficiency. Well, what could achieve efficiency better than a Windows<sup>®</sup> Control that provides information in a familiar, intuitive format?

Datron's Windows<sup>®</sup>-based Software provides ease-of-use while delivering robust functionality. Operators can view or edit programs during machining, run other software simultaneously as the machine is milling or download large files through a company network. Plus, they can remotely diagnose the machine or monitor the machine's activity through a standard Internet connection ... anytime, anyplace.

## Enjoy the future of affordable high-speed, machining.

## Quick setup & changeover with integrated workholding.

A range of integrated workholding options are available for Datron machines. A pneumatic clamping system allows for a quick setup that holds blanks securely. With our VacuMate<sup>™</sup> (vacuum table) even parts with minimal surface area can be batch-milled from thin substrates and held in place during machining. Datron's lightweight Quick-Pallets<sup>™</sup> use a beveled boss-in-cavity system to register parts in X, Y & Z for improved repeatability on jobs with frequent change-over.



Tech Specs	✦ excelsior <sup>®</sup> Lite
Coordinate Table	Solid aluminum bed, steel base, gantry, and double-sided Y-drive precision guides
Machining Area (X x Y x Z)	20" x 20" x 9.5"
Portal Height	8"
Drive System	Digital servo drives, precision ball screw
CAD Interface	ISO G-Code (standard for NC machining code)
Control System	Microsoft Windows <sup>®</sup> -based control (open PC), 3-axis decentralized high-speed
Coolant System	Ethanol-Mist Coolant System <sup>™</sup> for machining aluminum and other metals
Machining Spindle	1.2kW high-frequency spindle, 30,000 rpm 6mm collet
Tool Changer	5-tool automatic tool change with integrated tool length sensor and tool database
Accuracy	Resolution: ±0.00016" Absolute: ±0.002" / Relative: ±0.001"
Feed Rate	400" per minute
Footprint	51" x 51" x 77" (W x D x H)
Weight	1,587 lbs.
Power Requirement	208/220V, 7Amps (single phase)