

## Machine twice as fast ... in half the time.

The OmniRaptor® has all the bells and whistles to meet the demands of a dynamic manufacturing environment. Feed rates of up to 800 i.p.m. produce optimized cycle times making this machine ideal for high-volume production schedules. A steel bridge reinforced with polymer concrete provides superior stability and support for heavier spindles. The 2kW (2 3/4 H.P.), water-chilled 60,000 RPM spindle has the torque to handle even the most challenging workpieces. For conditions requiring multiple shift production or high material removal, the OmniRaptor is a perfect choice. The 5/16" diameter collet and heavy-duty design can handle serious workloads and optimize cycle times. A standard 15-tool "station-style" rack with tool-length sensor can be upgraded to an optional 20-tool station for added capacity. Faster feed rates, stabilized gantry, integrated pneumatically covered tool magazine, LCD flat-panel display, polycarbonate side windows and a removable chip cart on wheels are just a few extra features that distinguish the OmniRaptor from our other models.

### Have a need for speed?

Intricate work-pieces require intricate tooling. The smaller the tooling, the higher the spindle speed you need.

With a 2.7 hp, 60,000 RPM spindle the tooling virtually flies through material. To speed up CNC machining further, the OmniRaptor comes with an 15- or 30- tool, Automatic Tool Management System™.

Plus, the OmniRaptor is equipped with an integrated tool-length sensor to speed up tooling set-up and monitor tool wear and tool breakage. Designed for high-speed machining with intricate tools, the OmniRaptor is compatible with 1/4" and 1/8" shank tools. Datron Dynamics offers a complete line of micro tooling created specifically for high-speed CNC machining.

### King-size Bed.

The OmniRaptor features a 40" x 27.5" x 9.5" machining envelope. Whether your set-up requires nesting or a multitude of work holding solutions, the OmniRaptor has plenty of space. And it's fast too. With positioning speeds of 800"/min, don't blink or you might miss something! The compact footprint of 69" x 57" allows it to fit almost anywhere on your shop floor.

### Workholding Options!

Datron Quick-Pallets™ securely mount onto the machining bed and register automatically in the X, Y, and Z. axes. These light-weight pallets are available in different configurations with pneumatic short stroke clamps, Vacuumate vacuum plates, and blank panels for custom workholding solutions.



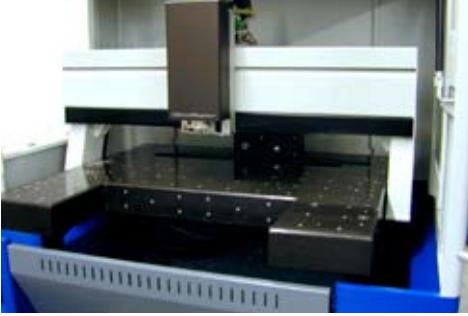
### Next Generation Precision High-Speed CNC Machining:

- ◆ Cut your production times in half
- ◆ Eliminate de-burring and de-greasing operations
- ◆ Increase your capabilities
- ◆ Superb surface finishes

**Small footprint. Small Tools. Huge R.O.I.!**

**Call toll free 888.262.2833**

**WARNING:** Utilizing the power and flexibility of the ◆ OmniRaptor® may be hazardous to your competition.



## User-friendly, PC-based control.

The OmniRaptor® comes with a Pentium based PC control, which offers easy to use 'canned cycles', an intuitive control that utilizes look ahead buffers, and diagnostic features. The integrated hand held pendant is designed for easy control and operation. The 208V - 7 Amps power requirement allows the OmniRaptor to be installed, and operated efficiently.



## The next step in high-speed CNC.

The OmniRaptor is the ideal machine for your intricate applications. The large bed size together with the 60,000 RPM spindle allows you to machine the material faster, and more efficiently. Our Ethanol-Mist Coolant System™ eliminates secondary operations like de-greasing and de-burring of parts — so your cycle times are faster than ever before! Specifically developed for high-speed applications with intricate tooling, the OmniRaptor is the ideal solution for any company that uses tooling of 0.500" and under.

**Enjoy the future of intricate, high-speed machining.**

## You just can't hurt it.

Your operator can't bend the ball-screws or the ways. Our high-speed digital-servo drives constantly monitor the resistance of the axis. Should the load on a drive ever increase beyond what the machine would normally encounter during operation, the machine just stops. It is our efficient way to protect your investment. Even during "lights-out" production, if a tool breaks, it can be replaced so that production quickly picks up where it left off — saving both time and costly blanks.



## Available Options:

- ◆ Extensive CAD/CAM Interfaces
- ◆ Z-Correction Probe & integrated edge-finding capabilities
- ◆ Pneumatic quick clamp system
- ◆ Electrode clamping system
- ◆ 15 or 30 tool Automatic Tool Management System™
- ◆ Micro-drop oil coolant system
- ◆ High-speed tools for any application
- ◆ 4th & 5th axis

Tech Specs	◆ OmniRaptor™
Coordinate Table	Cast polymer-concrete with mounting threads, fixed bridge design with precision linear guides
Machining Area (X x Y x Z)	40" x 27.5" x 9.5"
Portal Height	75"
Drive System	Digital servo drives, precision ball screw
CAD Interface	ISO G-Code (standard for NC machining code)
Control System	Microsoft Windows®-based control (open PC), 3-axis decentralized high-speed
Coolant System	Minimal quantity lubrication, electronically adjustable dispensing, Ethanol coolant
Machining Spindle	2kw high-frequency spindle, 7,000 - 60,000 rpm 5/16" collet, hybrid ceramic bearings
Tool Changer	15-tool changing unit with tool length sensor or 30-tool changing unit with tool length sensor
Accuracy	Resolution: ±0.00016" Absolute: ±0.001" / Relative: ±0.0005"
Feed Rate	800" per minute
Footprint	69" x 57" x 77" (W x D x H)
Weight	1,760 lbs.
Power Requirement	208/220V, 7Amps (single phase)