

A high-speed CNC router with maximum machining area!

By far the largest machine offered by Datron, the MaxiMiser™ still features all of the speed and precision that have earned us the reputation as world leader in the high-speed, micro-machining niche. This router's massive bed delivers 39.3" x 98" x 7" of machining area, making it ideal for sheet material, batch-machining and lights-out production. The MaxiMiser offers tighter tolerances, minimal to no backlash and greater stability compared to conventional router table designs. The T-nut table is secured to a solid 4" granite slab with steel substructure. It is an ideal system for when standard, less industrial sign making or wood cutting style router tables just don't offer the tolerances and stability required in certain applications. Ideal for stainless steel elevator panels, profile machining aerospace parts, nested production of aluminum or composite parts and lengthy extrusions. Vacuum tables are available covering the entire machining work area. All standard options are available such as spindles and tool change units.

Get the Max Out!

In the world of manufacturing, you never want to "max out" on production capacity or throughput — because that means business is booming and you just can't keep up with demand. But, you can avoid that problem if you "max out" on machining area instead. The MaxiMiser's bigger bed accommodates bigger workpieces. Bigger workpieces allow for bigger batches. And, bigger batches equate to bigger profits.

Here's how it works.

During an 8-hour day, labor costs about \$0.40 a minute and a machine costs about \$0.20 a minute. So, the compound cost of both operator and machine is about \$0.60 a minute. If you were to add another 8-hour shift, the machine cost drops to about \$0.10 a minute (since it's amortized across two shifts), and the labor cost remains the same. It's a savings, but more can be saved. By using a machine that is capable of running without operator intervention during the second shift, the reduction in the labor brings the compound cost (operator & machine) as low as \$0.30 a minute — or one half of the original cost. With that principle in mind, an ideal batch would have a cycle time that coincides with an operator's shift — and large machine beds that hold sizable blanks facilitate this. The operator places a batch on the machine in the morning and attends to other duties while the machine works all day producing the needed pieces. At the end of the shift, the operator removes the completed batch, sweeps down the machine, and sets up another batch to run unattended all night. When the operator returns to work the next morning, he removes the batch that the machine produced overnight and starts up another one. This gets two shifts worth of work out of one operator. And THIS is the premise of "lights out" production.

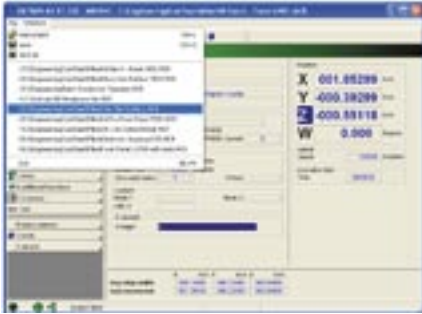


Next Generation Precision High-Speed CNC Routing:

- ✓ Rigidity like no other router on the market!
- ✓ Mills aluminum and is ideal for sheet material
- ✓ Large machining area facilitates batch-machining
- ✓ Batch-machining facilitates lights-out production
- ✓ Lights-out production improves efficiency & productivity
- ✓ Efficiency & productivity yield increased profits!

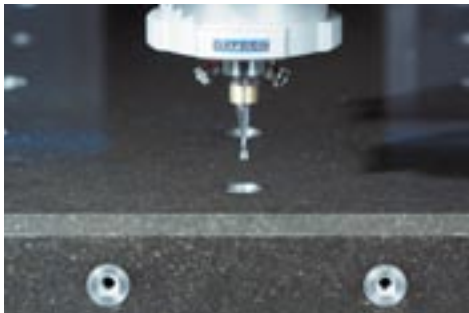
Maximize volume & revenue with the MaxiMiser!

Call toll free 888.262.2833



Intuitive control at your fingertips.

Datron's Microsoft® Windows®-based controller works with virtually any CAD/CAM software and offers Ethernet networking capability, as well as remote monitoring and control, allowing the machine to seamlessly integrate into any manufacturing environment. Plus, it 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.



Speed and precision.

The MaxiMiser's blazing speed and lightning-fast 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. 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.

Enjoy the future of high-speed, batch machining.


Available Options:

- Tool changer: 10 to 20 tools
- Pneumatic quick clamp system
- Several spindle and 3D probing options
- Pick & place system
- Z-height surface mapping
- Integrated edge-finding capabilities
- 4th & 5th axis

Manage those tools.

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 spaces that house 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, leaving a ready supply should tools break during "lights out" or unattended operation. The tool database contains parameters for each tool enabling the programming of macros set up to monitor them. For example, after 500 lines of code, the machine may employ an "if/then" statement such as, "Measure this tool; if the length is shorter than the listed parameter, then change the tool." So, production continues, saving valuable time.



Tech Specs	
Coordinate Table	Solid concrete polymer on a steel base, portal set-up with double-sided Y drive, precision guides
Machining Area (X x Y x Z)	39.3" x 98" x 7"
Portal Height	75"
Drive System	Digital servo drives, precision ground 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
Lubrication & Cooling	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	10-tool changing unit with tool length sensor or 20-tool changing unit with tool length sensor
Accuracy	±0.004"
Feed Rate	787" per minute
Footprint	69" x 130" x 77" (W x D x H)
Weight	Approximately 2 tons
Power Requirement	208/220V, 7Amps (single phase)