

# OmniTurn

Fast... Precise... Affordable...

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## New Generation CNC Control



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**\$4,495**  
**exchange**

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**One Year Warranty**

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The original OmniTurn CNC control has served productively for twenty-two years on thousands of turning-machines nation-wide. The new G4 control uses the latest ethernet technology for simpler and faster CNC Control. The standard control ships with three-axis simultaneous servo control (X, Z & C); a fourth simultaneous axis is available as an option. Using ethernet to connect the motion card to the computer requires fewer connections and less hardware, which greatly enhances reliability.

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- ♦ **Four Axis Synchronized (opt.)**
  - ♦ **Plane-Switching for milling and slotting operations**
  - ♦ **Refresh Servo Position 2,000/sec**
  - ♦ **Knob-controlled Feedrate and Spindle Speed Override**
  - ♦ **32MB solid-state hard-drive**
  - ♦ **Eight User Programmable i/o**
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NC Electronics, Inc. designs and manufactures the OmniTurn CNC equipment. We were one of the first in the machine tool industry to apply PC based computer control to machine tools, and we've produced thousands of machines and controls since 1987. This experience is reflected in the latest G4 control.

### Good news for OmniTurn Users

The G4 control is designed to replace an older generation OmniTurn controller. Simply unplug the old control and plug in the G4 control and you're ready to run parts in minutes. All of your old programs are compatible with the new G4 control.

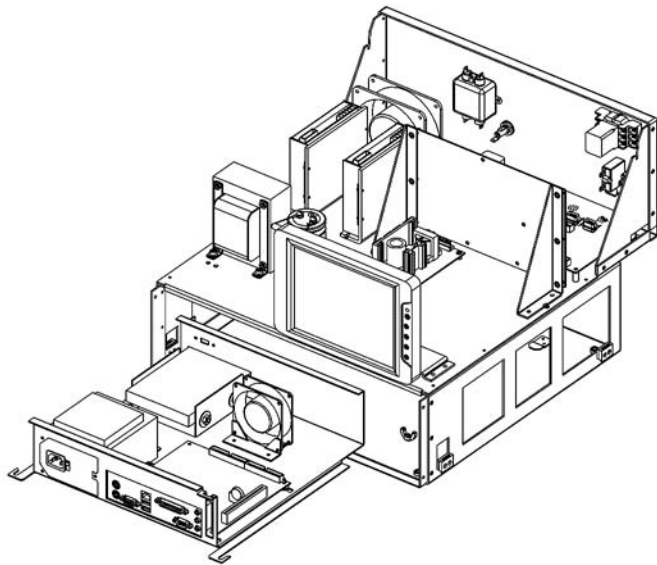
# OmniTurn New Generation CNC Control

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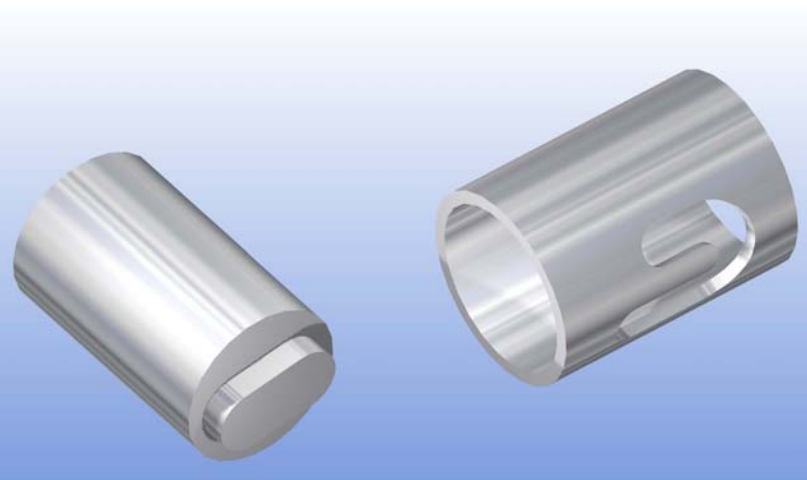
## Easy Access ♦ Modular Design

### Computer slides out for maintenance; easy access to all components.

All motion-control related components are accessible from the top. To access the computer only the front panel needs to be removed. Fan-cooled, sealed enclosure stays cool and clean. Upper chassis fan blows directly on servo amps. Lower chassis fan cools energy-efficient Mini ITX motherboard. Motherboard has one PCI slot for network card; 32MB solid-state hard-drive.



Some advantages of the G4 CNC: Faster servo update time resulting in better finishes and tighter arc blending ♦ Four ways to input a program: floppy disk, RS-232, keyboard and USB memory stick ♦ Color LCD display and enhanced user display ♦ One-year warranty on all CNC control components ♦ High capacity solid state hard drive ♦ Four axis simultaneous control ♦ On-screen display of tool number & true position ♦ Plane-switching for milling



OmniTurn CNC Plane-Switching Examples

## CNC Features:

### General

CPU	Energy-efficient VIA C3 Processor (800MHz)
Program Storage	32MB* Internal
Program Backup & Transfer	USB Memory Stick
	3-1/2 Floppy Drive
	RS-232
Max Program Size	5000 Blocks
Tool Offsets	32 Primary Offsets
	32 Secondary Offsets

\*Expandable to 16GB

### Front Panel

Feed Rate Override Knob	0 - 150%
Spindle Speed Override Knob	0 - 150%
X & Z Jog Stick	0.0005" - 1" <i>Incremental</i>
	1"/min - 100"/min <i>Continuous</i>
C-Axis Jog Stick (opt.)	0.01° - 90° <i>Incremental</i>
	Slow, Medium, Fast <i>Continuous</i>

### Auxiliary I/O

Standard	Five Aux M-Functions
	Three Aux Inputs (incl. one conditional jump)
Expanded I/O	Mitsubishi PLC up to 30 I/O

### Special Features

Plane Switching allows programming as mill, for features on face or side of part.

Any X & Z move can be synchronized to spindle for custom threads, etc.

Compatible with auto-vision to orient part in spindle.

Plug-Compatible with existing OmniTurn machines.

**OmniTurn**

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