

OmniTurn

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

New Generation CNC Control



**\$4,495
exchange**

One Year Warranty

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.

- ♦ **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.

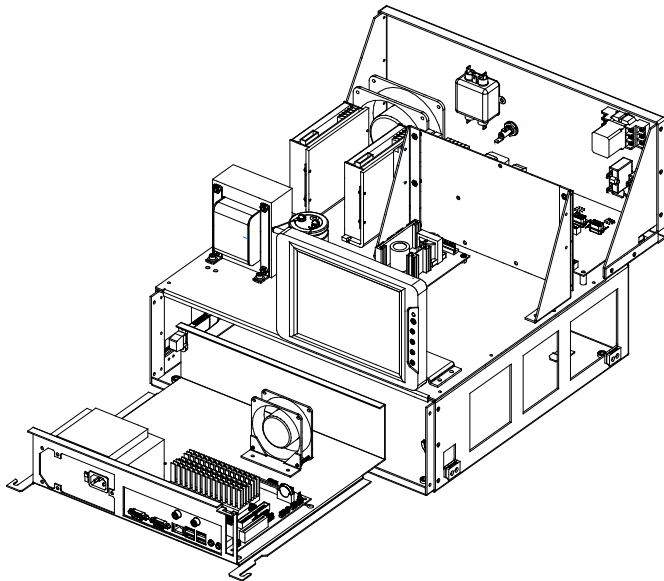
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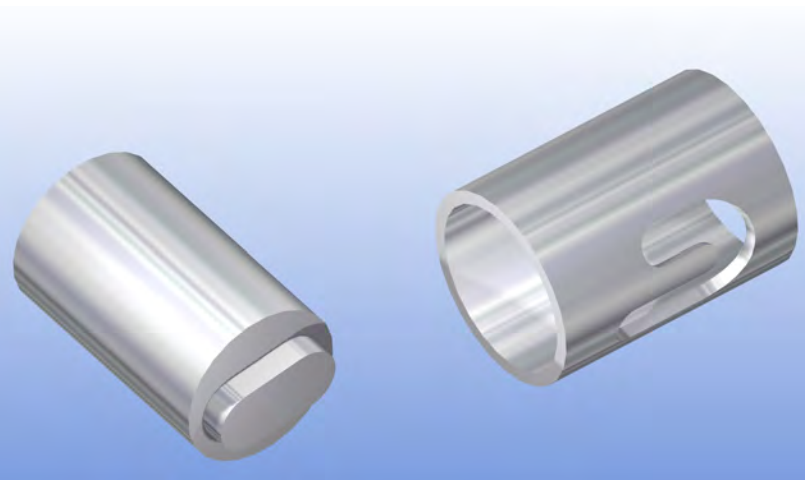
Easy Access ♦ Modular Design

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 ♦ Three ways to input a program: 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

CPUEnergy-efficient VIA C3 Processor (800MHz)
Program Storage 32MB* Internal
Program Backup & Transfer USB Memory Stick
. 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" Incremental
. 1"/min - 100"/min Continuous
C-Axis Jog Stick (opt.) 0.01° - 90° Incremental
. Slow, Medium, Fast Continuous

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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