

OmniTurn

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

New Generation CNC Control



\$4,995
exchange

*Simple installation!
No tech required.*

One Year Warranty

The original OmniTurn CNC control has served productively for twenty-seven 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**
 - ♦ **8GB solid-state hard-drive**
 - ♦ **Eight User Programmable i/o**
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Good news for OmniTurn Users:

The G4 control is designed to replace an older generation OmniTurn controller. Requires some minor re-wiring in electronics cabinet and you're ready to run parts in minutes. All of your old programs are compatible with the new G4 control. *NOTE: Some older spindle encoders are incompatible with the G4 CNC. If this is the case, we will offer a discount on a new encoder.*

Sept 2023

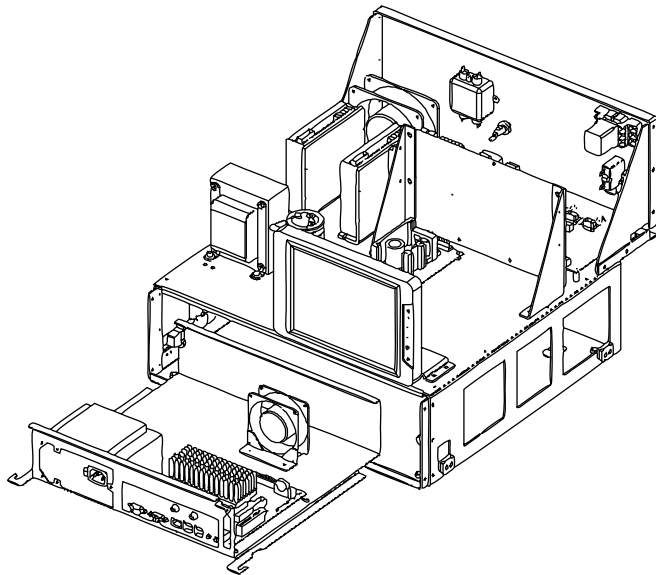
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Easy Access ♦ Modular Design

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; 128MB 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

CPU . . . Energy-efficient VIA C3 Processor (800MHz)
Program Storage 8GB Internal
Program Backup & Transfer . . . Thumb Drive, RS-232
. WiFi / Ethernet (optional)
Max Program Size 5000 Blocks
Tool Offsets. 32 Primary Offsets
Secondary Tool Offsets 32 Secondary Offsets
Max Feedrate (cutting & rapid) .. 300ipm (7.6m/min)
Resolution. 0.00005" (1.3μ)
Accuracy. 0.0001" (2.5μ)

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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