

THERMWOOD

First in CNC Routers

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QUOTATION NUMBER 16805

10/25/07

Submitted To: Bo-Mer Plastic
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Submitted By: Thermwood Corporation
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Jeff A. Hartke

QUOTATION

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Model 40 Machine (Refurbished)

DESCRIPTION

The Model 40 machine is a fixed gantry, moving table machine with a 5' x 8' table top. This machine was brought back to Thermwood Corporation and refurbished. The Model 40 machine is a heavy duty machine with 1500 inch per minute feed speed, engineered steel construction, trackways Siemens AC servos and ball screw drives.

It is primarily designed to machine low profile materials such as hardwoods, softwoods, fiberboard (MDF), particleboard, plastics and aluminum.

The trackways on all axes are precision ground, hardened ways with precision bearings.

The machine base structure has steel mounting pads, each equipped with leveling bolts.

The gantry construction consists of an engineered steel weldment of structural steel tubing and plates with internal steel bracing.

Closed loop Siemens AC Digital Servo drives equipped on all axes.

CONTROL SYSTEM

The Thermwood *Gen2* SuperControl is feature rich, high performance CNC control system configured to perform 3 axis simultaneous motions. It is a multi-processor, full multi-tasking control. It features a high level of hardware integration, extensive use of reliable surface mount technology and a built in upgrade path for future technology.

The control is equipped with a 15" full color LCD monitor, 85 key 101 emulation QWERTY keyboard and a 100 Gigabyte hard disk drive. It also includes a serial port for hand held programmer interface, variable 0 to 120% feed rate override and operator controls for start, stop, axis jog +, axis jog -, block step +, block stop - and feed hold. The control provides PCI bus expansion slots and is compatible with most Local Area Networks (LANs) as well as a variety of peripheral computer devices.

The control uses a "*Windows XP Pro*" operating system, offering the operator choices for program and machine operation display, pop up windows for event and information display, pop up windows for data input, and the ability to operate the machine in the background while doing other tasks on the control.

The *Gen2* Control includes the Hand Held Programming unit.

Model 40 Machine

- Programmable and controlled three axis motion
- 10½ HP tool change spindle
- 7 Position bar style tool change system
- New Siemens AC Digital Servo Drive System with feed speeds to 1500 inches/minute
- New machine wiring.
- 10" of vertical motion, 8" of clearance (Vertical axis)
- *Gen2* SuperControl
- Air conditioned control cabinet
- Solid-state memory and control system, fully diagnostic.
- 120 Gigabyte hard disk system for program and system storage
- 15" LCD color monitor
- 85 key, 101 key emulation keyboard
- EIA 274D programming
- Network card

- DVD Writer
- Control Touch Pad
- Feed rate override
- Feed hold
- Hand Held Programming Unit
- Menu driven programming
- Laser calibration and certification
- Lead screw compensation system
- 480 Volt, 60 Hz, 3 Phase power input
- Air requirements – 100 PSI, 15 CFM
- Warranty - Thermwood's one year limited warranty. The warranty includes one (1) year of Virtual Service. Virtual Service provides direct, live, visual contact from the machine control to Thermwood's Service department. ***An analog, POTS-style phone line to the machine control is required.*** (See detail copy of the warranty for other limitations)

WORK TABLE:

- 60 inch wide by 96 inch deep Mic-6 aluminum jig plate table top including ½ inch nylon standoffs and extruded skirt.

PART HOLD-DOWN:

- Vacuum - Table equipped for vacuum hold-down, includes one high flow vacuum port with four inch vacuum plumbing. The work table has one vacuum zone with one port which is operated by one manual control valve.
- Vacuum pump is not included

TOOLING:

- One 10½ HP, 3,000 to 24,000 RPM variable speed tool change spindle mounted to a independent servo controlled vertical axis. Spindle will have programmable on/off and programmable spindle speed.
- Seven position bar style tool change system, includes 7 toolholders with collets and covernuts. Maximum diameter tooling is two inches.
- Automatic Tool Length Measurement - The Automatic Tool Length Measurement system provides an automatic method of measuring tool length and entering tool length offset numbers into the control system.

AUTOMATIC LUBRICATION SYSTEM

- The Automatic Lubrication System provides positive pressure, air/oil lubrication to the linear trackway bearings and the ball screws.

VOLTAGE

- Machine is wired for 480 Volt, 3 Phase, 60 Hz. Customer is responsible for providing constant 480 voltage level to equipment. **Requires approximately 40 amps for machine.**

DUST COLLECTION

- One Dust hood for the 10 HP spindle is included, requires a 6 inch dust collection line to be ran to the dust hood.

TRAINING:

- CNC router programming training (5 days) for 2 students. Training classes are conducted at Thermwood's training facility in Dale, Indiana. Customer is responsible for travel and lodging expenses.

SYSTEM INSTALLATION:

Machine installation assistance by Thermwood Service Technician (approximately 1 to 2 days). Includes travel expenses.

MACHINE SHIPMENT:

Machine will ship with Model 67 machine already on order. No additional shipping cost will be applied.

PACKAGE PRICE

\$59,500

TERMS:

- 30% with the order
- 40% due one week prior to ship
- 30% net 30 days from invoice date

FOB: Dale, IN

SHIPMENT: To ship with Model 67 machine already on order.

NOTE: Shipment date is based on Thermwood's backlog on the date of the quotation. Delivery time may be adjusted at the time of actual order acceptance due to changes in the backlog.

*12 tests disassemble
 Model 70 install Model 40 & 67
 & recalibrate
 2x Model 67's
 J.H.
 10/25/07
 w/ J.H.*

Customer Acceptance

[Handwritten Signature]

 Customer signature

10/27/07

 Date



E-MAILED
10/29/07

*PO# 06241.
 30% to be sent on 10/29/07.*