

AutoProcessor | CNC Machining Centers



THERMWOOD

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MADE IN USA 

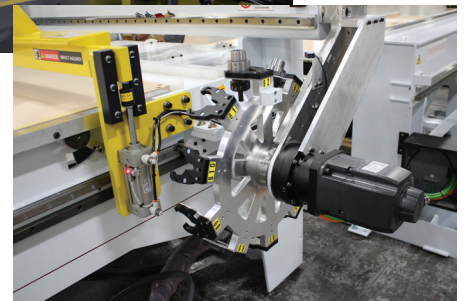
AutoProcessor

CNC Machining Centers

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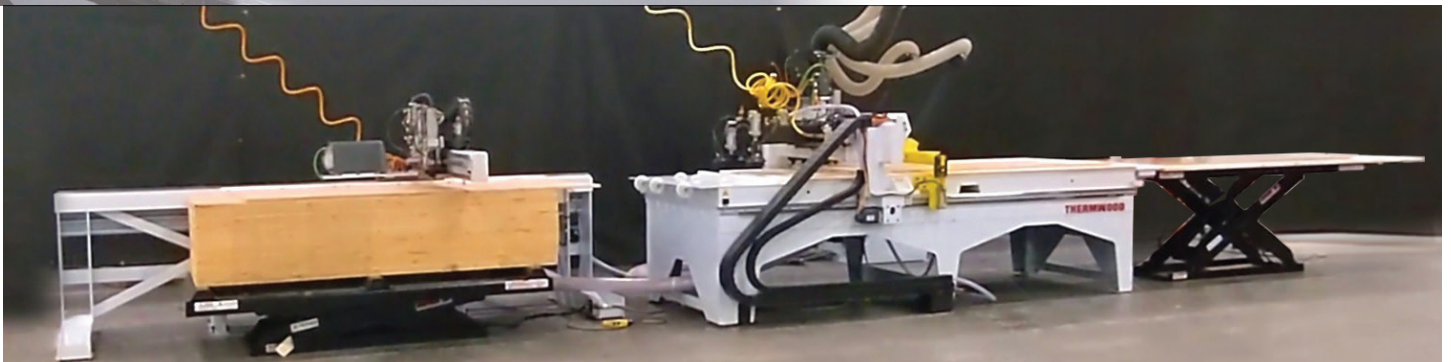
Thermwood CNC AutoProcessor Machining Centers are complete, nested-based, CNC routing systems for machining cabinet boxes, custom furniture and basically any nested type of sheet product.

The AutoProcessors are fully automatic from labeling and positioning of the sheets, to machining and off-loading the machined parts. With each cycle, the machine first labels each part area on the sheet, moves and positions the sheet to the table, machines the material, simultaneously off-loads the finished parts and reloads the next sheet, and then continuously repeats the process, all automatically.

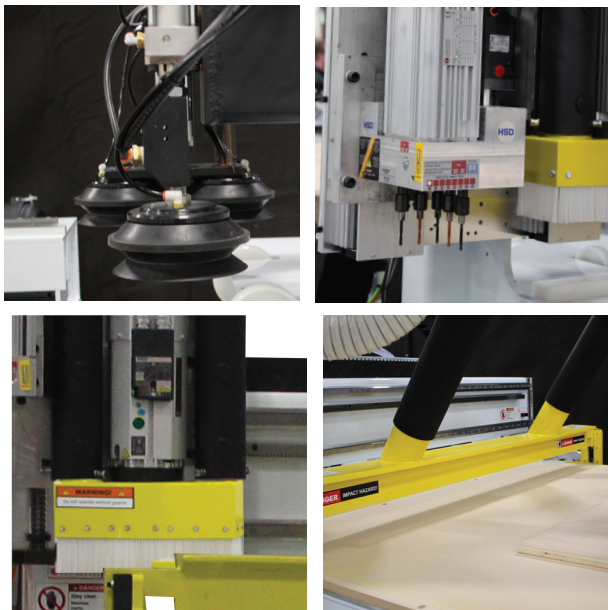


The Autoprocessor is equipped:

- Dust collection at the head
- Sheet positioner and table sweep
- Load/unload process
- Automatic tool changing
- Tool length sensors.
(optional five-spindle drill bank)



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Standard Features

- 12 HP (9 kw) ISO Electro-Spindle
- High-Flow Vacuum Table
- Moving Gantry
- Table Sweep
- Siemens Intelligent Servo Drives
- 3-D Laser Compensated Axis Alignment
- 10 Position Rotary Tool Change System
- Automatic Pop-Up Pins
- Automatic Tool Length Sensor
- 6000 lb. Lift Table for Loading
- Automatic Sheet Load and Unload System
- Automatic CNC Labeler System
- SuperControl
- Control Nesting

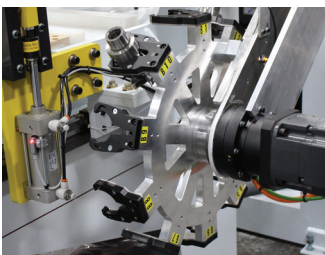


AutoProcessor 43
5' x 10' (1.5m x 3.0m) Table

Machine Standard Features/Options

12 HP (9 kw) Spindle

A direct driven spindle with a speed range up to 24,000 RPM. The High Frequency Spindle is cooled with an electric fan for quieter running and contains ceramic bearings for longer life and for less maintenance. The 12 HP (9 kw) spindle provides the user with a heavy duty, precision spindle which provides high performance and reliability. **Standard**

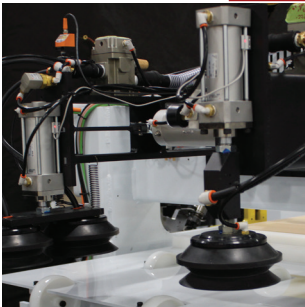
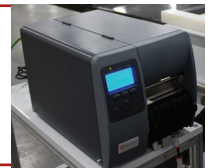


Rotary Automatic Tool Changer

10 Position Rotary Automatic Tool Changer includes (10) ISO-30 tool holders and collets. Max tool size is 2" (50mm) in diameter and 3.25" (83mm) in length. **Standard** (Optional HSK63F)

Automatic CNC Labeler System

The Automatic CNC Labeler System labels the sheet before the machining operation. The labels assist with sorting and assembling finished parts. **Optional**



Automatic Load/Unload System

Automatically loads sheets up to 60"x 120" (1.5m x 3.0m) to assist operator with unloading the machine and automatically position the sheet. Each individual sheet is elevated and positioned by a series of programmable vacuum cups. A steel rake is mounted in front of the router motor and travels with the machine gantry allowing parts to be removed off the front of the table. Dust extraction/table sweep occurs during the rake process. **Standard**

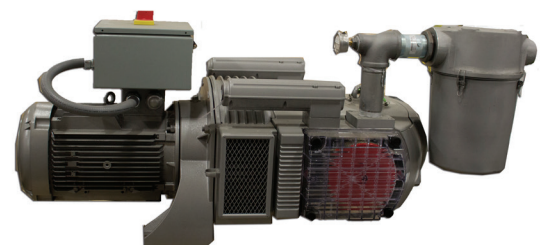
Drill Bank

The drill unit is vertical boring head with five vertical spindles. The spindles are on 32mm centers. Drill Unit can be independent. **Optional**



Vacuum Pump

Universal Vacuum System is a unique method for holding panels to the table top for machining. A sheet of MDF is used as a work surface on the top of the table. The high flow pump vacuums through the work surface holding the part to the table. Pumps are available in different sizes. **Optional**

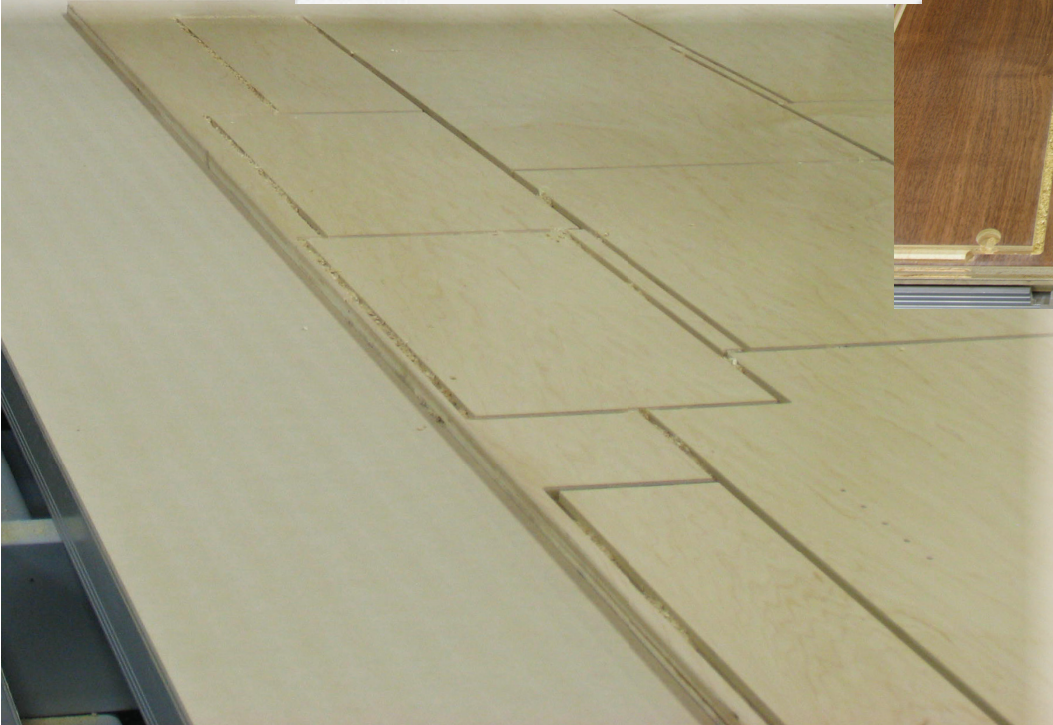


Control Nesting

It's SuperControl is equipped with Control Nesting, a user-friendly program that allows the operator to easily nest various parts and better utilize the material to the fullest. This helps save time, money and material.

Control Nesting:

- Achieve a better yield
- Adds the ability to re-use any scrap (off-fall)•
- Displays a graphical view of the nest to insure it is optimally configured
- Displays a yield percentage per sheet before the part is machined



SuperControl

Thermwood's SuperControl

Thermwood, the only major CNC router manufacturer that designs and builds its own CNC control, is a leader in implementing advanced control technology. The SuperControl incorporates more advanced control features than any other CNC control in the industry. And, because Thermwood provides all the technology, you have single source responsibility. Thermwood stands behind and supports the entire system and when new technology is available it can easily be upgraded.



Thermwood's SuperControl

- **Full Multi-tasking Control-** Uses Microsoft® Windows® 10 operating system, offering the ability to operate the machine and do other tasks on the control
- **Huge File storage-** 1 TB hard drive for storage and greater file execution with no delays.
- **Direct Link-** Accepts raw design files or CNC programs, compatible with virtually all design softwares.
- **Virtual Service-** Direct, live, visual contact to Thermwood's Service Department. (Optional)
- **Tool Management-** Keeps track of tool usage and automatically replaces it when needed
- **Maintenance Alerts-** Alerts you when lubrication or maintenance is needed.
- **Videos and Manuals-** Step by step how-to-videos to adjust, maintain and repair your machine. Electronic manual, with error reporting and dynamic 3-D assembly drawings with part numbers.

SuperControl Options

Additional options available



Bar Code Input

This option includes a bar code reader which attaches to the side of the control cabinet. The bar code functions just like a key sequence from the keyboard. For example, the entire key sequence needed to load a program can be scanned as a bar code much faster that it can be typed, with little possibility of error. The bar code input system allows any commonly used key sequence to be printed or scanned.

Hand Held Terminal

Powerful tool for creating, modifying, editing and refining CNC programs at the machine. Programs can be debugged or created right at the machine. The machine moves right with the programming so you can see the exact position. Modifications can be made quickly, errors are minimized saving time.



Personal Pause Button

Thermwood has developed a remote wireless "Pause Button" which can be clipped to a belt or pocket. Pressing this button stops the machine in place.

Software



Thermwood has a sales and support group that focuses on software products that work with and enhance the operation of Thermwood CNC routers. Their goal is to offer to Thermwood customers the most effective software products for their specific application, smoothly integrated with the control. You can be certain that software obtained from Thermwood will work properly with your Thermwood CNC router. (Thermwood machines can link with all major CAD/CAM softwares.)



Mastercam®

Thermwood is your best source for software products for the following reasons:

- **Thermwood understands the application:** Thermwood knows how the package works with our machines.
- **We've solved the integration problems:** The package works from the software to the computer and then to the CNC control.
- **Our integrated training:** Thermwood offers training of the software and how it works with the control.
- **Thermwood software support:** Thermwood can provide support for the software package, the control and, most important the operation of the two together.
- **Multi-package integration:** Thermwood knows how to make them work together for your application
- **Professional evaluation:** When you purchase software from Thermwood you know that it was fully evaluated and it works.

Thermwood Technical Service

Thermwood's Technical Service offers a wide range of services for our customers to be comfortable and profitable with their CNC Router System. Each Thermwood CNC router system includes formal, structured training classes including professional support material and hands-on experience.

In addition to Thermwood's professional phone support and on-site service, we offer Virtual Service, which is an audio video and data link from the machine controller and Thermwood's Service team. When the "Virtual Service" link is established, the customer can see and talk to the Thermwood service technician and the service technician can see, not only the customer, but also all of the critical parameters of the control. Through this link, the control can be diagnosed in real-time while programs are being executed and corrections can be made.

We also offer an On-line Supply Store, extensive Part Inventory, Custom Programming, an Advanced Support Program and a Retrofit and Upgrade Department.

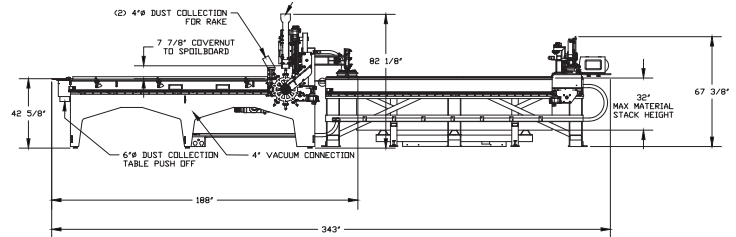
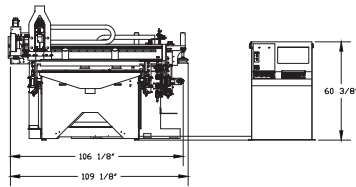
Thermwood's training, "Virtual Service", continuing control updates, and free lifetime phone support offer you support like no one else and assures continuing profits from your Thermwood investment, years into the future.

Thermwood's Service

- **Free Lifetime Phone Support**
- **Virtual Service**
- **On-site Technical Service**
- **Custom Programming**
- **Hands on Training Classes**
- **Professional Set-up**
- **On-line Supply Store**
- **Extensive Parts Inventory**
- **Retrofits and Upgrades**
- **Advanced Support**



Dimensions

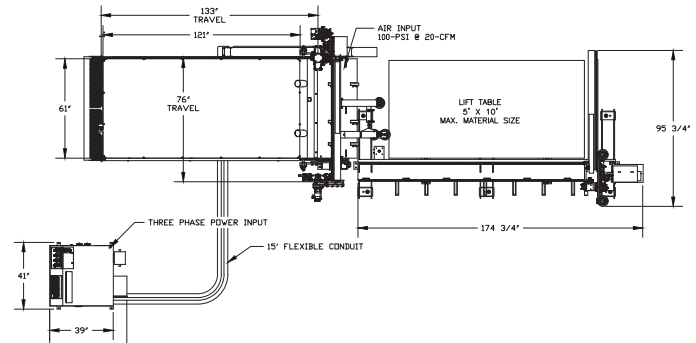


Overall Dimensions AP 43

5' x 10' Table: Height: 82" Width: 96" Length: 343"

(1.5m x 3.0 Table: Height: 2.1m Width: 2.4m Length: 8.7m)

(Dimensions are approximate)



Thermwood...First in CNC Routers

Thermwood is the first company that developed and manufactured CNC router technology in the US. Starting in the late 60's, Thermwood continues to offer products and software technology for the wood, plastics and aerospace industries, involving numerous areas of machining applications.



The main facility consists of 175,000 square feet which includes both an office/showroom and an engineering and manufacturing plant. Manufacturing utilizes modern fabricating, machining, assembling and testing processes from the machine fabrication to the CNC control production.

www.thermwood.com

Thermwood is an International company that strives in technology, software, support and service to best fit the needs of our customers. Thermwood...the first in CNC routers.



THERMWOOD



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