

3 & 5 Axis High Performance CNC Machining Centers



THERMWOOD
F i r s t i n C N C R o u t e r s

CNC Machining Centers

Thermwood CNC routers are highly flexible, making them ideal for a variety of manufacturing applications. Thermwood, the technical leader, offers a wide variety machines, exclusive features, flexible options and support software, all integrated into complete pre-engineered packages, fully refined for your specific application.

Thermwood has been building CNC routers longer than anyone else. Thousands of Thermwood CNC routers are in operation in 33 countries producing everything from simple wood parts to jumbo jets and spacecraft. Thermwood the clear leader in CNC router technology with more US and international CNC router patents than anyone else.



A System configured for your application

Thermwood offers a wide variety of machines and a large selection of options that configure these machines for almost any application.



Thermwood offers a variety of router spindles, including aggregate heads for special applications. You can get a servo controlled aggregate axis and a wide variety of aggregate cutting, sawing and drilling heads for special machining requirements.

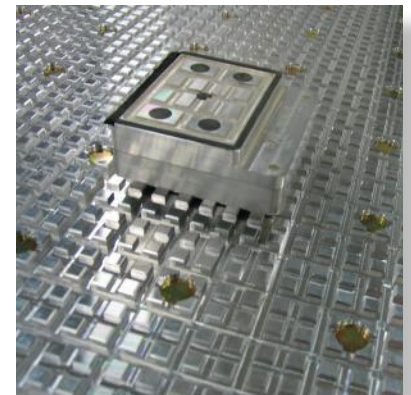
There are several systems for holding parts in place during machining including high-flow vacuum, conventional vacuum and roller hold-down. Thermwood invented many of these systems and their vast experience in this area assures

you will get a system that will reliably hold your parts.

Thermwood also offers automatic load-unload systems for certain applications.

Software is a key part of modern CNC systems. Thermwood maintains a staff of software developers and offers a variety of powerful but easy-to-use software packages. We also represent leading software products from third-party software vendors that we have configured to work seamlessly with Thermwood's systems. Thermwood provides complete training, backup and support for all the software products we sell, regardless of who originally developed them.

With Thermwood, we don't just sell you a machine that you have to make work. We configure a complete system, focused on your job, addressing all the details so you don't have to. We have the experience, technical resources and broad product offering needed to do this well.



Model 43

MADE IN USA 

3 AXIS / FIXED TABLE

Signs

Medical

Education

Composites

Wood Carving

Non-Ferrous Metals

Architectural Millwork

Marine/Boat Building

Exhibits/Store Fixtures

Furniture Manufacturing

Machining Plastic Sheets

Solid Surface Processing

High Volume Cabinet Production

Nested Based Custom Cabinets

OPTIONS



i-cut Camera



Unload Rake



Automatic Lubrication



Automatic Tool Sensor



Pause Mats



THERMWOOD

- 12 HP HSD Spindle (3,000-24,000 RPM)
- Fixed Steel High Flow Table
- Moving Gantry
- QCore SuperControl
- Siemens Intelligent Servo Drives Throughout
- 3-D Laser Compensated Axis Alignment



Table Sizes Available

- 61" x 121" Fixed Table
- 60" x 240" Fixed Table
- 48" x 96" Fixed Table

Model 42

MADE IN USA 

3AXIS / MOVING TABLE

Non-Ferrous Metals

Machining Plastic Sheets

Architectural Millwork

Composites

Military/Defense

Wood Carving

Signs

Medical

Aerospace

Marine/Boat Building

Exhibits/Store Fixtures

Furniture Manufacturing

Solid Surface Processing

High Volume Cabinet Production

Nested Based Custom Cabinets


- 
- 12 HP HSD Spindle (3,000-24,000 RPM)
 - Dual Moving Aluminum High Flow Tables
 - Fixed Gantry
 - QCore SuperControl
 - Siemens Intelligent Servo Drives Throughout
 - 3-D Laser Compensated Axis Alignment
 - Bar Style Tool Changers (optional)
 - Automatic Lubrication (optional)

Table Sizes Available

- Dual 5' x 5' Moving Tables
- Dual 5' x 8' Moving Tables
- Dual 5' x 10' Moving Tables
- Dual 5' x 12' Moving Tables
- Single 10' x 5' Moving Table

OPTIONS



Dual Head Spindles



Rotary Playback Device



Aggregate Tooling



Automatic Pop-Up Pins



At-the-Head Typewriter Tool Changer

Model 45

THERMWOOD

MADE IN USA 

3 AXIS / FIXED TABLE

Nested Based Custom Cabinets

Furniture Manufacturing

Exhibits/Store Fixtures

Machining Plastic Sheets

Non-Ferrous Metals

Marine/Boat Building

Architectural Millwork

Military/Defense

Wood Carving

Education

Aerospace

Composites

Signs

Medical

Solid Surface Processing

High Volume Cabinet Production

- Dual 12 HP HSD Spindle (3,000-24,000 RPM) with At-The-Head Typewriter Tool Changers (optional)
- Fixed Aluminum High Flow Table
- Moving Gantry
- QCore SuperControl
- Siemens Intelligent Servo Drives Throughout
- 3-D Laser Compensated Axis Alignment
- Automatic Lubrication (optional)

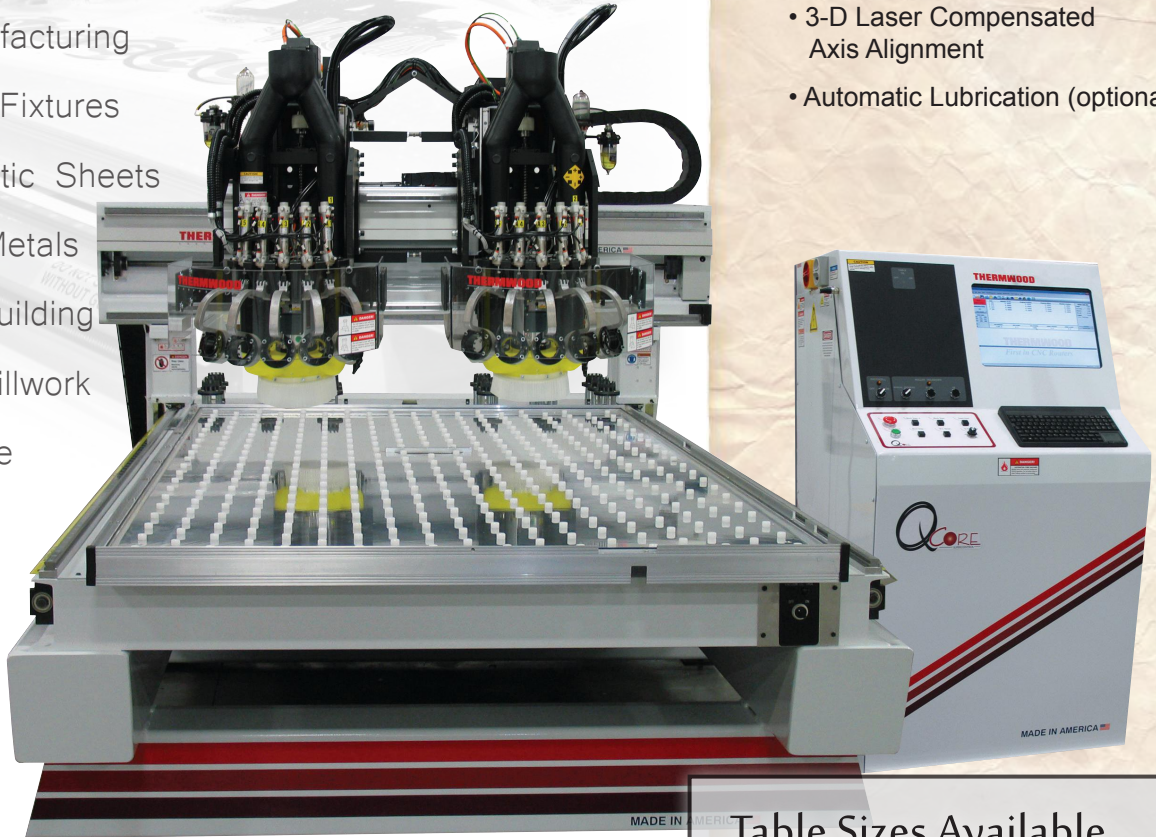


Table Sizes Available

- 5' x 5' Fixed Table
- 5' x 10' Fixed Table
- 6' x 12' Fixed Table
- 7' x 12' Fixed Table

OPTIONS



Drill Bank



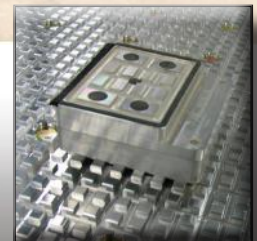
Rotary Playback Device



Aggregate Tooling



BarStyle Tool Changer



Multi-Function Nemi Pod Table

FrameBuilder 53

MADE IN USA 

ROLLER HOLD DOWN / LOAD / UNLOAD



- 18 HP HSD Spindle (3,000-24,000 RPM)
- Fixed Solid Aluminum Table
- Moving Gantry
- QCore SuperControl
- Automatic Load/Unload
- Roller Hold-Down
- Siemens Intelligent Servo Drives Throughout
- 3-D Laser Compensated Axis Alignment

Upholstered Frames
Exhibits/Store Fixtures
Marine/Boat Building
Non-Ferrous Metals
Composites
Furniture Manufacturing
Machining Plastic Sheets
Nested Based Custom Cabinets

Table Sizes Available

- 5' x 10' Fixed Table
- 5' x 12' Fixed Table
- 5' x 16' Fixed Table
- 5' x 20' Fixed Table

OPTIONS



Dual Head Spindles



Automatic Tool Sensor



At-the-Head Typewriter
Tool Changer



Automatic Lubrication



Dual Head Typewriter
Tool Changers

Model 63

MADE IN USA 

3 AXIS / FIXED TABLE

Furniture Manufacturing

Wood Carving

Signs

Medical

Education

Aerospace

Composites

Military/Defense

Non-Ferrous Metals

Architectural Millwork

Marine/Boat Building

Exhibits/Store Fixtures

Machining Plastic Sheets

Solid Surface Processing

High Volume Cabinet Production

Nested Based Custom Cabinets

THERMWOOD

- Dual 12 HP HSD Spindle (3,000-24,000 RPM)
- Fixed Solid Aluminum Table
- Moving Gantry
- QCore SuperControl
- Siemens Intelligent Servo Drives Throughout
- 3-D Laser Compensated Axis Alignment
- 4 Position Tool Changer
- Automatic Lubrication (optional)



Table Sizes Available

- 5' x 10' Fixed Table
- 5' x 20' Fixed Table

Table Extensions
Available up to 60'

OPTIONS



At-the-Head Typewriter
Tool Changer



Automatic Tool Sensor



Aggregate Tooling



Automatic Lubrication



Dual Head Typewriter
Tool Changers

MTR

MADE IN USA 

3 AXIS / METRIC

Furniture Manufacturing

Non-Ferrous Metals

Signs

Medical

Education

Aerospace

Composites

Wood Carving

Military/Defense

Architectural Millwork

Marine/Boat Building

Exhibits/Store Fixtures

Machining Plastic Sheets

Solid Surface Processing

High Volume Cabinet Production

Nested Based Custom Cabinets

THERMWOOD

- 12 HP HSD Spindle (3,000-24,000 RPM)
- Fixed Aluminum High Flow Table
- Moving Gantry
- QCore SuperControl
- Siemens Intelligent Servo Drives Throughout
- 3-D Laser Compensated Axis Alignment
- Automatic Tool Sensor
- BarStyle Tool Changer



Table Sizes Available

- 1.5m x 3m Fixed Table
- 3.6m x 2.1m Fixed Table
- 6m x 2.1m Fixed Table
- Dual 1.5m x 3m Fixed Table

OPTIONS



Aggregate Tooling



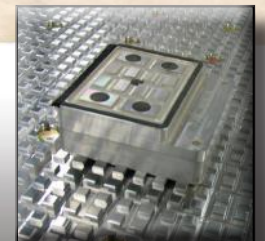
Automatic Tool Sensor



At-the-Head Typerwriter
Tool Changer



Drill Bank



Multi-Function Nemi
Pod Table

AutoProcessor

THE THERMWOOD

MADE IN USA 

AUTOMATIC LOAD / UNLOAD / LABELING

- 12 HP HSK Electro-Spindle
- Fixed Aluminum Table
- Moving Gantry
- QCore SuperControl
- Siemens Intelligent Servo Drives Throughout
- 3-D Laser Compensated Axis Alignment
- 8 Position Tool Changer
- Automatic Pop-Up Pins
- Automatic Tool Sensor
- 9 Spindle Drill Bank
- 4000 lb. Lift Table for Loading
- Unload Table



Cabinet/Closets

Marine/Boat Building

Furniture Manufacturing

Exhibits/Store Fixtures

Machining Plastic Sheets

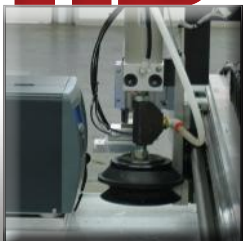
High Volume Cabinet Production

Nested Based Panel Processing

Table Sizes Available

- 5' x 10' Fixed Table

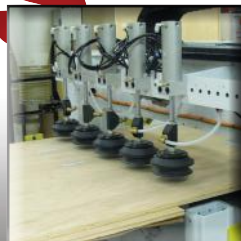
OPTIONS



Automatic Labeler



Automatic Tool Sensor



Automatic Load



Drill Bank



Automatic Unload

Model 67

THERMWOOD

MADE IN USA 

5 AXIS / MOVING TABLE



- 7.5 HP HSD Dual End Spindle (3,000-18,000 RPM)
- Moving Aluminum Table
- Fixed Gantry
- 24" Z standard (available up to 60")
- QCore SuperControl
- Full 5 Axis Simultaneous Motion
- Siemens Intelligent Servo Drives Throughout
- 3-D Laser Compensated Axis Alignment
- Automatic Tool Length Sensor (optional)

AeroSpace

Medical

Composites

Wind Energy

Military/Defense

Automotive Design

Non-Ferrous Metals

Marine/Boat Building

Three-Dimensional Plastic Trimming

Three-Dimensional Pattern/ Molding Making

Table Sizes Available

- 5' x 5' Moving Table
- 5' x 10' Moving Table
- 10' x 5' Moving Table
- 5' x 12' Moving Table
- 7' x 10' Moving Table
- Dual 5' x 5' Moving Tables
- Dual 5' x 10' Moving Tables
- Dual 5' x 12' Moving Tables

OPTIONS



Chip Collection



Automatic Tool Sensor



BarStyle Tool Changer



Remote Start/Stop



Gantry Light

Model 70

MADE IN USA 

5 AXIS / FIXED TABLE

AeroSpace

Medical

Composites

Wind Energy

Military/Defense

Automotive Design

Non-Ferrous Metals

Marine/Boat Building

Three-Dimensional Plastic Trimming

Three-Dimensional Pattern/ Molding Making

THERMWOOD

- 12 HP HSD Tool Changer Spindle (3,000-24,000 RPM)
- Fixed Aluminum Table
- Moving Gantry
- 24" Z standard (available up to 60")
- QCore SuperControl
- Chip Collection System
- Full 5 Axis Simultaneous Motion
- Siemens Intelligent Servo Drives Throughout
- 3-D Laser Compensated Axis Alignment
- BarStyle Tool Changer (optional)
- Automatic Tool Length Sensor (optional)



Table Sizes Available

- 5' x 10' Fixed Table
- 10' x 10' Fixed Table
- 10' x 15' Fixed Table
- 10' x 20' Fixed Table

OPTIONS



BarStyle Tool Changer



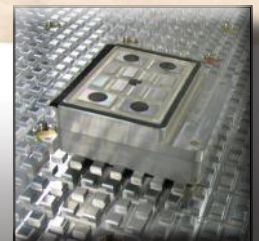
Automatic Tool Sensor



Dual End Spindle



Automatic Lubrication



Multi-Function Nemi Pod Table

Model 90

MADE IN USA 

5 AXIS / MOVING TABLE



AeroSpace

Medical

Composites

Wind Energy

Military/Defense

Automotive Design

Non-Ferrous Metals

Marine/Boat Building

Three-Dimensional Plastic Trimming

Three-Dimensional Pattern/ Molding Making

THERMWOOD

- 12 HP HSD Tool Changer Spindle (3,000-24,000 RPM)
- Moving Solid Aluminum Table
- Fixed Gantry
- 24" Z standard (available up to 60")
- QCore SuperControl
- Full 5 Axis Simultaneous Motion
- Siemens Intelligent Servo Drives Throughout
- 3-D Laser Compensated Axis Alignment

Table Sizes Available

- 5' x 5' Moving Table
- 5' x 10' Moving Table
- Dual 5' x 5' Moving Tables
- Dual 5' x 10' Moving Tables
- Dual 5' x 12' Moving Tables

OPTIONS



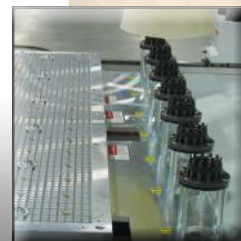
Chip Collection



Multi-Function Nemi Pod Table



In The Leg Tool Changer

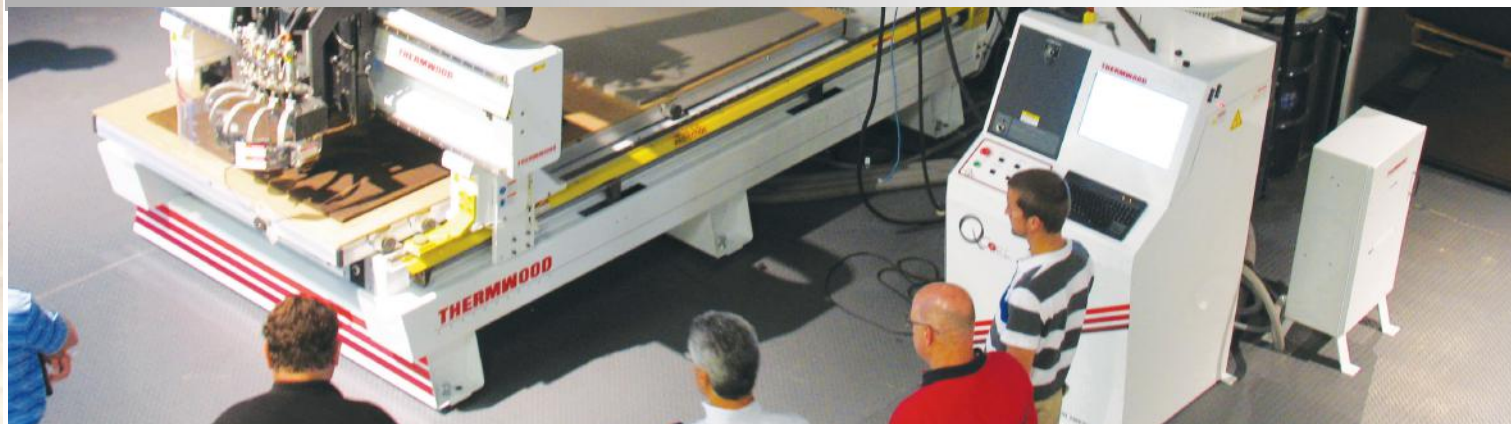


BarStyle Tool Changer



Automatic Tool Sensor

Prove your application BEFORE you buy



Thermwood operates a well equipped, fully staffed demonstration lab whose purpose is to demonstrate to both you and us, that we can do your job and that you will be completely satisfied. We set up, program and run your parts, with no obligation to you, to prove out the application before we receive, or accept, a commitment.

You are invited to our Southern Indiana facility to see this process in person and discuss your needs in a friendly, easy and open environment. We also have the ability to broadcast these demonstrations live over the web, although if your job is truly custom, a personal

visit is highly recommended. Most people that visit say they leave with a wealth of information beyond seeing their parts run. After all, we have been doing this longer than anyone else and are happy to share this experience with you.

With this approach, you know and we know it will work well. This is the only way to be sure you will be a completely satisfied customer. After all, you being satisfied is important to us because a large part of our business is repeat orders from satisfied customers.

Software Products for your application

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 Thermwood's Control. You can be certain that software obtained from Thermwood will work properly with your Thermwood CNC router.

Thermwood CNC Routers are compatible with output from most major CAD software programs that can output layered DXF's.



Next Generation CNC control

- your key to success



Thermwood, the only major CNC router manufacturer that designs and builds its own CNC control, is a leader in implementing advanced control technology. This control is designed from its very core with higher efficiency and productivity to operate a CNC router, which means you can do more and it's easier.

Thermwood's QCore 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.



- **Full Multi-tasking Control-** Uses Microsoft® Windows® 7 Professional operating system, offering the ability to operate the machine in the background while doing other tasks on the control
- **Huge File storage-** 1 TB hard drive for storage and greater file execution with no delays.
- **New Hand Held Programmer-** Rugged design with touchscreen
- **Better, More Accurate Motion-** Complex motion calculations and faster speeds
- **Direct Link-** accepts raw design files or CNC programs, compatible with virtually all design software, and the ability to nest hundreds of parts from different sources and programs
- **Full 5 Axis Simultaneous Motion**
- **Virtual Service-direct**, live, visual contact from the control to Thermwood's Service Department.
- **Tool Management** keep track of how much each tool is used and automatically replaces it with a new one when its tool life expires.
- **Maintenance Alerts**-alerts you when lubrication or maintenance is needed.
- **Videos and Manuals-** step by step videos of how to adjust and maintain and repair your machine. Electronic manual right on the machine, with error reporting and dynamic 3-D assembly drawings with part numbers.

Real Service...Not Lip 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 a lot of 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 con-



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



Thermwood Free Lifetime phone support, training, Virtual Service and continuing control updates offer you support like no one else and assures continuing profits from your Thermwood investment, years into the future.

Virtual Service



Virtual Service is a system provided for members of the Advanced Support Program. "Virtual Service" is a powerful audio and video link, using an internet connection, between the customer's QCore SuperControl and the Thermwood service department.

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. It essentially gives the service technician as much information as standing in front of the custom-

er's control itself. Through this link, the control can be diagnosed in real-time while programs are being executed and corrections can be made. Programming errors can be found and corrected on-line. Customers can typically handle many mechanical problems if they are shown what to do, so videos can be launched by the Thermwood technician to be viewed by the customer.

"Virtual Service" can effectively handle most difficulties and problems that occur. It provides service in minutes instead of days or weeks, reducing both downtime and frustration.



Thermwood...First in CNC Routers

Thermwood is a high technology and software company located in Southern Indiana. Thermwood is currently the oldest CNC router company, started in the late 1960s, and continues to offer products for the woodworking, plastics and aerospace industries to name a few. Thermwood customers are some of the largest, most sophisticated companies in manufacturing.

Our main facility consists of 175,000 square feet which includes both an office/showroom and an engineering and manufacturing plant. Our machines are built from the ground up in the US in a modern manufacturing facility. Thermwood controls all aspects of manufacturing, building everything from the stress relieved base to the CNC control. Thermwood is a true manufacturer, not just an assembler.

Thermwood has developed a sophisticated cabinet and furniture design software and provides it to over 25,000 woodworking and cabinet shops through the largest cabinet industry cooperative in the world, a program we founded and continue to man-

age. Thermwood also maintains a web store selling thousands of router supplies, tooling and woodworking products.

Thermwood strives in technology, software, support and customer service to best fit the needs of our customers. Thermwood...first in CNC routers.



Contact Us



THERMWOOD

First in CNC Routers

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