

Thermwood's Multi-Purpose Series systems are available in a variety of sizes and configurations with one that is ideal for every customer.

## Moving Table

	M40-55	M40-48	M40-58	M40-510	M40-712	M42-510	M42-55DT	M42-58DT	M42-510DT	M42-512DT
<b>Table Size</b>	1524mm x 1524mm	1219mm x 2438mm	1524mm x 2438mm	1524mm x 3048mm	2134mm x 3658mm	1524mm x 3048mm	1524mm x 1524mm	1524mm x 2438mm	1524mm x 3048mm	1524mm x 3658mm
<b>Vacuum Systems</b>										
Conventional Vacuum	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
Universal High Flow	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
Conventional/High Flow Combination	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
<b>Spindle</b>										
10 HP, 3,000-24,000 RPM	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
18 HP, 3,000-18,000 RPM, HSK	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
Multiple Heads	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
<b>Tool Changer</b>										
4 Position Bar Style	Standard	Standard	Standard	Standard	N/A	Standard	Standard	Standard	Standard	Standard
6 Position Bar Style	N/A	N/A	N/A	N/A	Standard	N/A	N/A	N/A	N/A	N/A
7 Position Bar Style	Available	Available	Available	Available	N/A	Available	Available	Available	Available	Available
11 Position Bar Style	N/A	N/A	N/A	N/A	Available	N/A	N/A	N/A	N/A	N/A
5 Position At-the-head-style	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
<b>Drill Units</b>	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
<b>Aggregate Tools</b>	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
<b>Auto Tool Length Sensor</b>	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
<b>Cutter Bits (Package)</b>	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
<b>Locator Pins</b>										
Manual	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Automatic	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
<b>Control Networking</b>	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
<b>Virtual Service</b>	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
<b>Hand Held Programmer</b>	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
<b>Software</b>										
Control Nesting	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Control DXF Transulator	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
CAD/CAM	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available

## Fixed Table

	M45-510	M45-512	M45-612	M45-712	M53-510	M53-512	M53-516	M53-520	M73-1010	M73-1015	M73-1020
<b>Table Size</b>	1524mm x 3048mm	1524mm x 3658mm	1828mm x 3658mm	2134mm x 3658mm	1524mm x 3048mm	1524mm x 3658mm	1524mm x 4877mm	1524mm x 6096mm	3048mm x 3048mm	3048mm x 4572mm	2048mm x 6096mm
<b>Vacuum Systems</b>											
Conventional Vacuum	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
Universal High Flow	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
Conventional/High Flow Combination	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
<b>Spindle</b>											
10 HP, 3,000-24,000 RPM	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
18 HP, 3,000-18,000 RPM	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
Multiple Heads	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
<b>Tool Changer</b>											
4 Position Bar Style	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
6 Position Bar Style	N/A	N/A	N/A	Standard	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7 Position Bar Style	Available	Available	Available	N/A	N/A	N/A	N/A	N/A	Available	Available	Available
11 Position Bar Style	N/A	N/A	N/A	Available	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5 Position At-the-head-style	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
<b>Drill Units</b>	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
<b>Aggregate Tools</b>	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
<b>Auto Tool Length Sensor</b>	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
<b>Cutter Bits (Package)</b>	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
<b>Locator Pins</b>											
Manual	Standard	Standard	Standard	Standard	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Automatic	Available	Available	Available	Available	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Control Networking</b>	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
<b>Virtual Service</b>	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
<b>Hand Held Programmer</b>	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
<b>Software</b>											
Control Nesting	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Control DXF Transulator	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
CAD/CAM	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available

Thermwood also offers a complete line of 5 Axis CNC routers. See "Multi-Purpose Series - 5 Axis" literature available separately.

**THERMWOOD**  
First in CNC Routers

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# Multi-Purpose Series - 3 Axis

CNC Router Packages for Custom Applications



\* Machine Enclosure removed for clarity

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**THERMWOOD**  
First in CNC Routers



# Multi-Purpose Series - 3 Axis

## CNC Router Package for Custom Applications

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 29 countries producing everything from simple wood parts to jumbo jets and spacecraft. Thermwood has consistently been the technology leader, with more US patents on CNC router technology than all other CNC routers companies combined.

# A highly advanced CNC control - your key to success

Your CNC router is only as flexible as your CNC control. Thermwood is the only major CNC router manufacturer that designs and builds its own CNC control, a control so advanced it is used by aerospace, defense and even NASA for some of their most demanding applications. This control is designed from its very core to operate a CNC router, which means you can do more and it's easier.

Thermwood's CNC control offers important features not available from anyone else. You can nest right in the control. You can even combine parts from different software in the same nest. You can send it DXF design files and just run them without a separate CAM or Post Processor or the extra programming effort involved with CAM and post processing. You can send it files intended for a panel saw, nest and run them using "true shape nesting" so you might even get better yield. You can send the control an edge profile and if a tool is not available for that profile, the control will develop a modeling program to cut the profile using standard modeling tools. You can even use a Hand-Held Programmer to create and run simple programs right at the machine. You can run huge modeling programs that would choke other CNC controls and, without pausing.

Your machine comes with automatic tool change capability. You can select a simple bar style system, a reliable at-the-head tool changer or one or more bulk tool changer offering 100 or more tools. But even more important, the control manages the tooling, automatically so you don't have to. Load a program and it automatically selects the correct tools. It will automatically move tools from the bulk tool changer to the at-the-head tool changer for faster cycle times. It even keeps track of how much each tool is used and automatically replaces it with a new one when it gets dull.

The control keeps track of machine use and alerts you when lubrication or maintenance is needed. It shows you step by step videos of how to adjust and maintain and repair your machine.

And, because Thermwood controls all the technology, you have single source responsibility. No longer must you tolerate the machine builder and control manufacturer blaming each other when you have a problem. Thermwood stands behind and supports the entire system.

And when new technology comes out, you can easily upgrade your Thermwood control, we do it all the time. This is seldom possible with others.

The key to CNC router capability is the CNC control, and Thermwood clearly has the most capable CNC control.



# 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.

# Training and Support -vital to your success



A Thermwood technician can see both you and deep into the control system using Virtual Service

To comfortably and profitably use your system, you must understand how to program, operate and maintain it. Each Thermwood CNC router system and each major software package includes formal, structured training classes including professional support material and a lot of hands-on experience. Our goal is to make you totally comfortable and confident.

Our systems come complete with detailed manuals, including an electronic version of the operator's manual on the control that you can access, even while the machine is operating.

In addition to Thermwood's professional phone support and on-site service, each CNC router also includes your first year of Virtual Service at no additional cost. You can connect your control to Thermwood's technical service center with the push of a button, establishing an audio, video and data link. You see and talk to the service technician, right on the control screen, and he sees and talks to you, but he also sees deep into your system to provide help with everything from tooling and programming questions to machine configuration and performance. In fact, virtually everything a service technician can do in your shop can also be done via Virtual Service.

Virtual Service makes getting help easy, fast and highly effective.

With your new system, you also receive the next control system software update at no additional cost.



Thermwood has developed the "Typewriter Style" automatic tool changer for fast and convenient tool changes.

Both Virtual Service and continuing system updates are available on an ongoing basis through the Advanced Support Program, which also includes substantial discounts on hardware updates. A single low annual payment gets you unlimited Virtual Service help and each control update as it is released.

Thermwood 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.

## Prove your application BEFORE you buy

It is dangerous to take anyone's word they can do your job. The only way to know for sure is to see your job being done. Watch the cycle, see the result and then you truly know.

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.



Demonstration Lab fully staffed to insure that we can do your job.

# Sophisticated applications are easy with Thermwood

Thermwood has tools that allow us to address truly unique applications like no one else. For example, our control has a capability known as the Advanced Function Language that is not available on commercial controls. This is actually a full function computer programming language that can operate within the standard CNC program. With it you can access and modify virtually every aspect of control operation, literally changing the control to suit you own unique requirements.

You can take measurements or check operations and then modify or change what the machine does, based on those readings. You can measure parts or material and then modify the program or the control operation for the specific material being processed. You can do,...well, almost anything you can imagine.

The Advanced Function Language is just one more reason Thermwood's Multi-Function CNC routers are the best choice for your unique requirements.