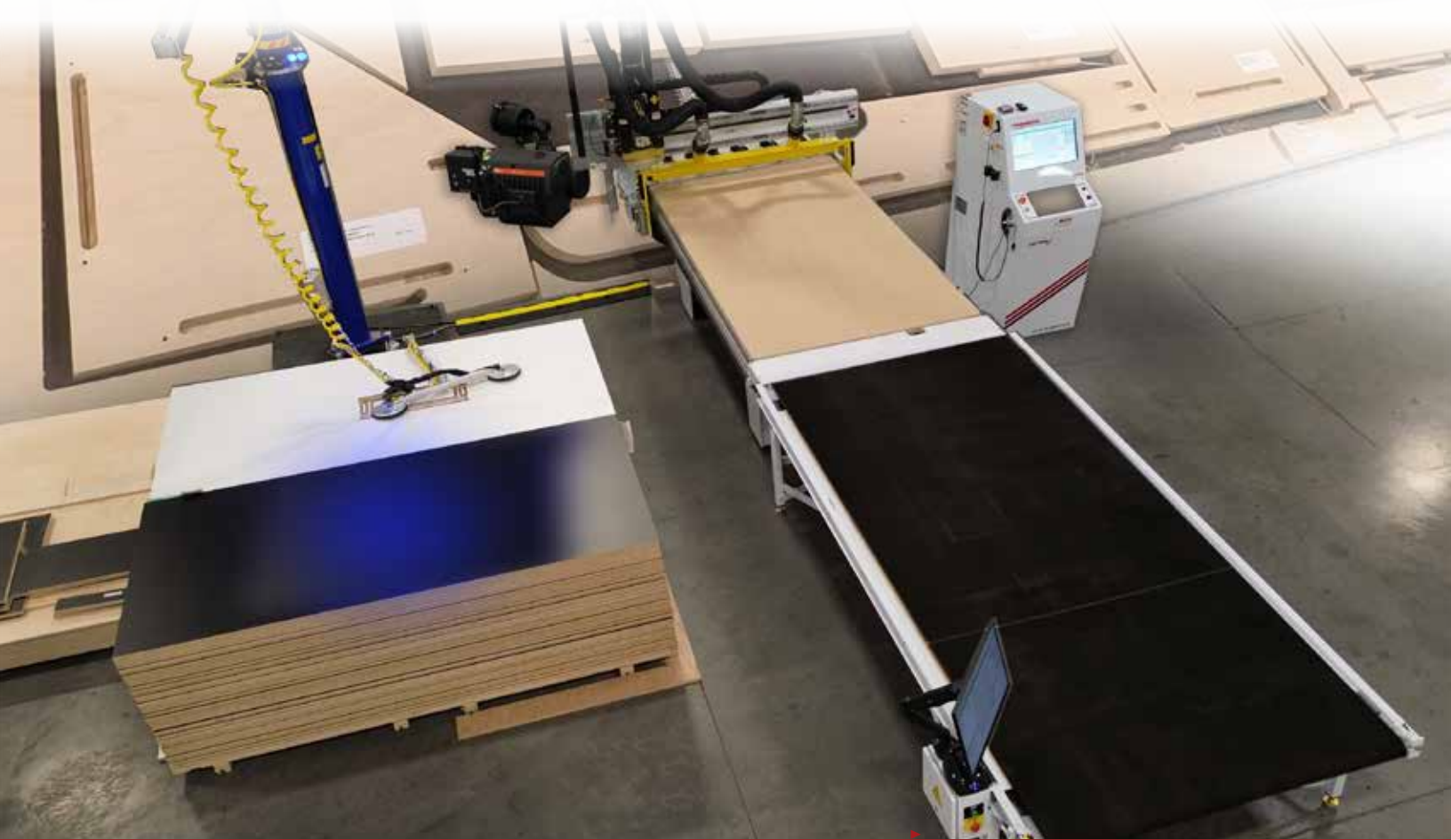


Model 43 Work Cell



Model 43 5'x10'



The Model 43 5'x10' CNC Work Cell is engineered to optimize productivity, precision, and ease of use, making it an essential asset for custom cabinet and furniture manufacturing.

Nested Based Work Cell ideal for producing:

- Custom cabinets
- Closets
- Drawer boxes
- Doors
- Drawer fronts
- and much more

Model 43 5'x10'

Nested Based Work Cell

This system is an advanced, fully-integrated nested-based CNC work cell designed to meet the needs of custom cabinet, closet and furniture builders. This complete solution includes an automatic off-load conveyor and a manual load assist system, ideal for producing custom cabinets and closets, drawer boxes, doors, drawer fronts and much more.

What Makes It Special:

SuperControl System with Smart Router Technology:

- **Control Nesting Software:** Automatically generates high-yield nested parts from eCabinet Systems or any CAD software with DXF output.
- **Job Queuing:** Accepts queued job files for continuous shift operations, guiding operators to the next job.



Remote Operator Station:

- **Touch Screen Monitor & Label Printer:** Mounted on the conveyor table for easy access, enhancing efficiency in loading materials and applying labels.

Heavy-Duty Spindle & Tool Changer:

- **12 HP Spindle:** Supports a wide variety of cutting tools with a 21-position automatic tool changer.
- **High-Flow Vacuum Hold-Down System:** Securely holds materials on a 5' x 10' table, equipped with automatic programmable pop-up pins for precise sheet location.



Manual Load Assist System:

- **Ease of Use:** Facilitates easy loading of sheet materials onto the router table.
- **Sequence Identification:** Projects a light onto the next sheet to be loaded, guiding the operator seamlessly.



Ultra 6 SuperControl:

- **Storage & Intelligence:** Boasts 1TB of solid-state memory storage, leveraging Smart Router technology for user-friendly, intelligent machine operations.

Machining & Off-loading Process:

- **Automated Vacuum System:** Cleans the work surface post-machining and automatically off-loads the finished sheet onto a conveyor.
- **Operator Tasks:** During machining, operators can label, sort, and remove machined parts, ensuring a streamlined workflow.





► **Smart Router Technology**

- The basis of a Smart Router is that it knows the job it is doing so it can help in ways no ordinary router can. It saves material, saves labor, is easy to use and is easy to maintain.

- Smart Routers live on the web. They access updates on the web, can be accessed and serviced through the web and apps let you monitor and manage your Smart Router using your smart phone or tablet.

► **Save Material**

- Easily nest on material left from other jobs. This means a large savings each year for off-fall reuse.

- Recover from a broken tool without scrapping the sheet you are cutting or restarting the job. This saves a lot over time.

- Smart nesting. Control Nesting will automatically adjust the program for smaller parts using skins or tabs.

- Defective material. Easily nest around the defect, allowing you to use the sheet.

- Should parts start to move, Smart Routers can be instructed to complete the sheet without scrapping any more parts by leaving a skin. This skin is removed by hand, saving valuable parts and eliminating rework.

- Easily fly cut the spoilboard in the middle of a job. Maintaining a good working spoilboard surface with ordinary routers is involved and prone to problems.

- Perform back side operations on a full sheet rather than process the back of parts one at a time. This not only saves labor but also avoids errors from handling a lot of individual parts.

- Smart Router technology alerts you when a prominent, highly visible part is about to be processed so you can hand select the sheet with good grain and no flaws. This avoids scrapping important parts due to small flaws.

Key Features:

- Thermwood SuperControl with Smart Router Technology
- 1 TB of memory storage
- 12 HP HSD Spindle (3,000-24,000 RPM)
- 21 Position Bar Style Automatic Tool Changer
- Fixed 5 ft by 10 ft High Flow Vacuum Table with Moving Gantry (5'x8' table is available for a smaller footprint)
- Machine speeds up to 2,800 IPM
- Automatic High Tolerance Tool Length & Diameter Measurement
- Automatic Programmable Pop-Up Pins
- Full Table Off-Load Rake w/Integrated Dust Collection
- Powered Out-Feed Conveyor (61"x144")
- Remote Fully Functional Operator Station with Touch Screen Monitor and Label Printer
- Manual Lift System with Automatic Sequence Light sheet locator system
- Personal Pause FOB
- Automatic Lubrication System
- Three-Dimensional Laser Compensated Axis Alignment
- Siemens Intelligent Servo Drives Throughout
- Machine Training and Installation
- Free Lifetime Phone, Forum and Email Support
- Lifetime Machine Support from Thermwood's Legendary Service and Support

► **Save Time**

- Send a design file from almost any design software, even a properly formatted DXF file, to the machine and it does everything else. No need to develop inflexible posted CNC programs, the machine does it all automatically.

- Remake parts. At the end of a job, simply scan the label on any part or parts and it nests them on the remaining material and cuts them. You can remake parts from a previous job the same way.

- Easily recover from problems like broken tools, bad material, parts moving, etc. without having to develop new CNC programs.

- Load your entire eCabinet Systems product line in the machine and then select, resize and run any product or combination of products without developing a CNC program for each job. It even lets you change material thickness without programming.

- When selecting a product to run, Smart Router technology shows not only the alphanumeric name but may also show an image of the item to help avoid errors.

