The Simplest, Easiest, Fastest way to produce Custom Cabinets and other Nested Based Products

Any CNC Router can machine nested based products like kitchen cabinets, closets and furniture, but only Thermwood can cut the cost and assembly time by half.

THERMWOOD

First in CNC Routers

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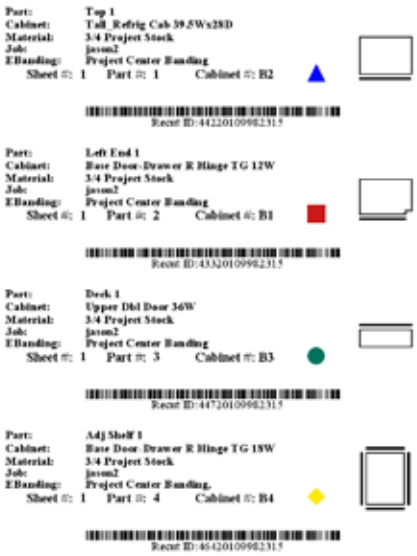
Decrease Assembly Time

What happens when a job is completed and you have hundreds of parts scattered around waiting to be assembled? Do you need to read each and every label in order to figure out what part goes with what product? Thermwood has the answer to this problem and more:



- **Color-Coded Symbols** (Patent Pendning)- We have added color coded symbols to help identify which parts go with the products being processed. This is an easy way of sorting the parts by looking at the symbol or color. For Example: all blue triangles go with blue triangles; all red squares go with red squares, etc.

- **Edge Banding Location** - Parts requiring edge banding have a diagram on the label showing the parts and sides that need edge banded.

- **Barcode** - A barcode (ID number included if you don't have a barcode scanner) listed for each and every part is printed on the labels. A quick scan will allow you to remake damaged parts, make extra parts or add offall to a job.

Assembly Marks

(Patent Pending)

Assembly marks are machined into the joints of each cabinet, making assembly easier. You simply put parts with one dot together; put parts with two dots together, etc. On complex cabinets this can cut assembly time by more than half. The assembly marks can be arranged so that the assembler puts the parts with one dot together first, the parts with two dots gets assembled second, etc. Marks are completely hidden after assembly. This method works with Blind Dado, Barb Dado and Full Dado construction methods.

Barb Blind Dado Construction

(Patent Pending)

The new Barb Blind Dado Construction is similar to that of the Blind Dado but uses a special barbed tool (available from Thermwood). This tool is used to machine only the dados and not the tenons. The barbs are facing downward so that once the tenon is placed into the dado, the barbs are pressed against the edges. Glue is applied to the dado and the parts are assembled. No clamps are needed while the glue dries. This method is similar to how a fish hook works in that the barb is facing in the opposite direction of the point (which secures the fish from unhooking). Apply glue to the dado and assemble. As the glue dries, no clamps are needed.

The Easiest Machine to Run

QuickCut is a revolutionary new technology from Thermwood that offers the fastest, easiest and simplest possible way to make custom, nested based products. Everything needed to select, size and machine custom products is located within the CNC machine control, eliminating the need for cabinet design software, CAM software, nesting software and post processing.

It totally eliminates the need to learn the many steps normally required with other software packages and machines. The QuickCut method is as fast and simple as it gets.

At the machine control, you simply select the product(s) you want from a library, adjust the size and quantity and the machine will do the rest. That's all there is to it. The system automatically handles everything else like changing material thicknesses, nesting and writing the CNC code.

Onscreen instructions guide the operator through every step, from loading and unloading the materials to pressing the start button. The printer will print a nest diagram showing the location of each part in the nest and a label for each part. The information on the labels makes it easy to separate the parts and edge band the correct side(s), while the barcode helps with loading offal or having to recut parts.

There is also an easy "Flycut" or "Surfacing" routine that instructs the operator step by step how to "Surface" the wasteboard and spoilboard and adjusts the tool heights automatically.

An optional Pause Mat around the machine pauses the program when stepped on. When this happens, the spindle and machine stops and the control prompts the operator for further action. The on-screen choices are:

- Resume the program
- Quit the program
- Start Sheet Over
- Flycut (surface) the wasteboard to improve part hold-down
- Suspend Skin Removal
- Replace Tool in case one has broken during machining

Higher Quality Products

Higher quality products aren't just about the correct tooling, feed speeds, RPM's and direction being used, but instead require another level of control. Two items that are traditionally hard to manage are material thickness and the diameter of the tooling being used. Thermwood's SuperControl handles both of these tasks:

Change Material Thickness - The ability to change material thickness on the fly for an entire job can only be done with a Thermwood CNC Router. With most design software programs, material thickness is entered at the beginning of the design process, and usually given a standard number such as 1/2", 3/4", etc. even though the material is rarely that exact amount. A job is now loaded onto the Thermwood Gen 2 controller and the operator is asked if the material thickness has changed for this job. If yes is selected, a dialog box then prompts the operator to designate the proper thickness of the sheets being used. The size of the cabinets along with the construction joints are then re-sized as needed due to this material thickness change. The modified jobs will then nest and machine the parts automatically.

2 Pass Dado - When creating a dado, some post processors will use a tool diameter with the same size as the dado and make one pass to create the dado. The problem with this is the tool needs to be the exact size required or the dado will either be under or oversized. We create a dado using two passes; therefore the size of the tool can be different than the size of the dado. For Example: using a 1/4" diameter tool for a 3/8" wide dado is not a problem and will still output the correct geometry.

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