

A UNIQUE LOOK

250 GT2 Series 5 Piece Door Machine

Rev. D



1980



The Original Door Machine

Sold world-wide for over 35 years with thousands of satisfied customers

2015

A UNIQUE LOOK

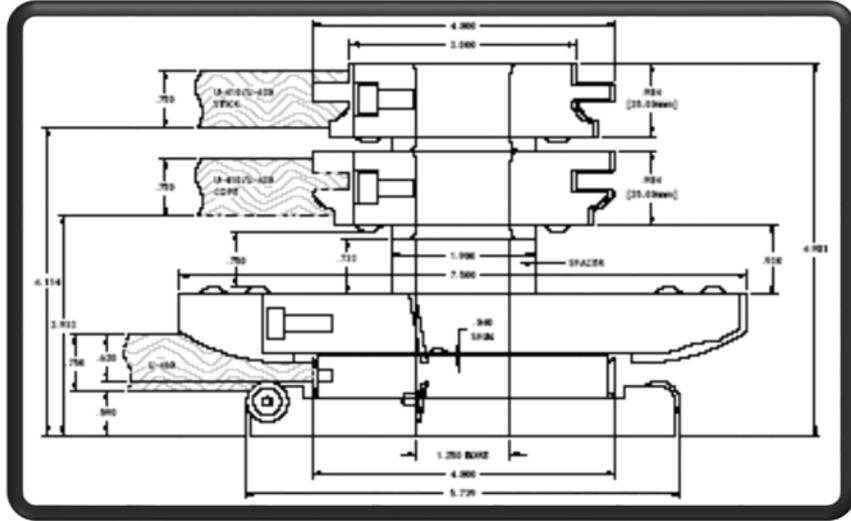


250 GT2 Series 5 Piece Door Machine - Basics

Standard

Rail – Cope and Panel Tooling

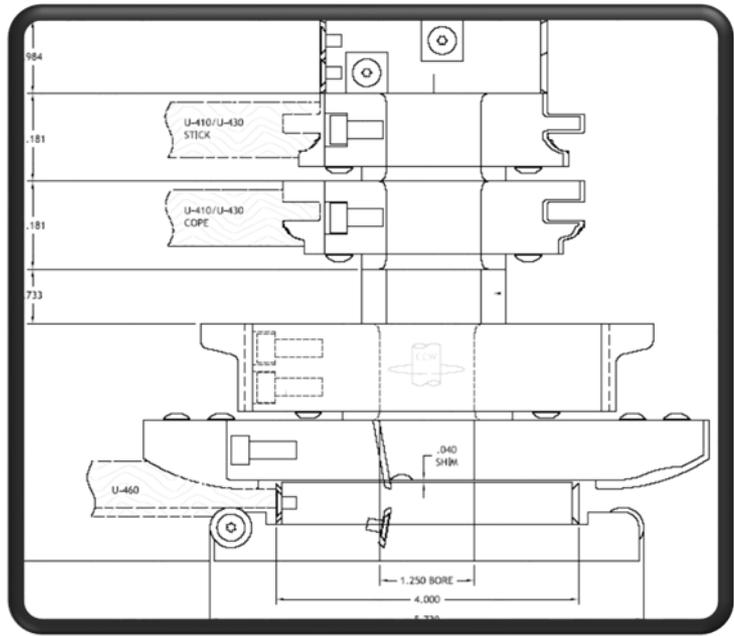
All three tools required to produced a 5 piece door Stacked onto 1 Spindle



Optional XS

3 Additional Inches (XS) Extra Spindle Capacity

NOW add Edge, Hog or Shaper Tooling

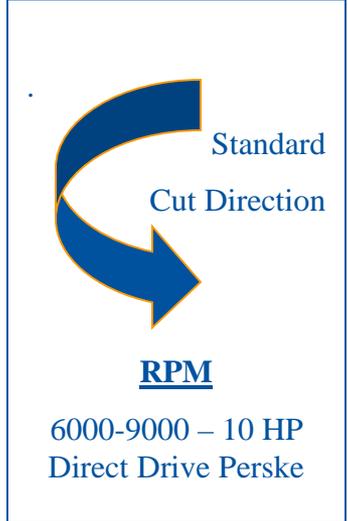
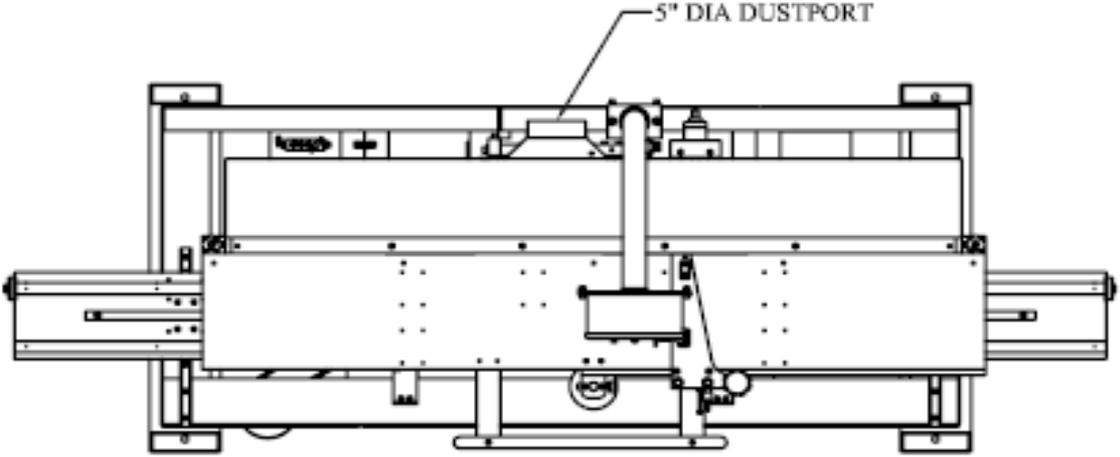


A UNIQUE LOOK



250 GT2 Series 5 Piece Door Machine - Basics

Unique Machine and Tool is proud to announce its **35th** year of producing the "Original Door Machine". This machine comes standard with a complete set of Great Lakes Carbide rail, cope & panel cutters, (1) template cartridge, and a variable speed 10 horsepower direct drive motor. The durable clamp bar, and Unique x/y table allow an operator to safely and easily produce a complete arched **5 Piece Cabinet Door in less than Two Minutes.**



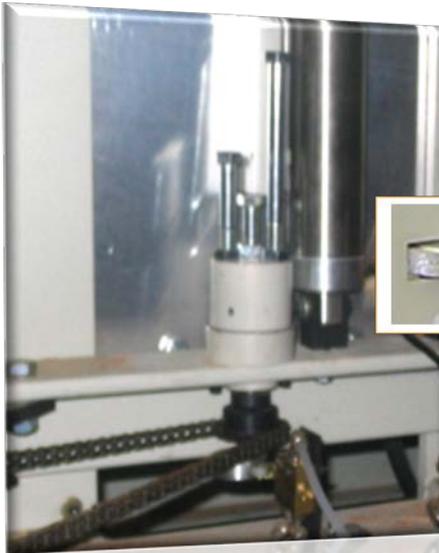
← **Standard feed direction**

Climb cutting may be safely achieved by experienced operators

A UNIQUE LOOK

UNIQUE MACHINE & TOOL CO.

250 GT2 Series 5 Piece Door Machine - Basics



- An Industrial purpose built machine designed specifically for the production of 5 piece solid wood doors.

- The 250s Turret Selector wheel easily allows an operator to quickly change to preset cutting heights of 3 or 5 (XS) different cutters by rotating the removable turret.

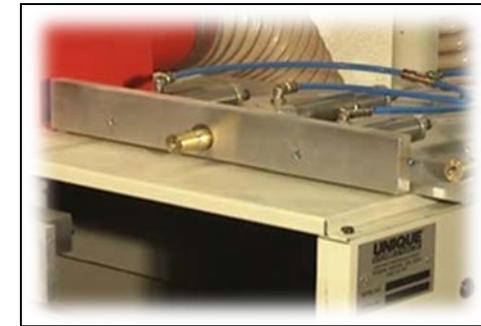
Note: Multiple Turret(s) can easily be setup to match multiple profile tooling stacks

- Clamp Bar beam provides constant contact with single large or multiple (same thickness) parts.

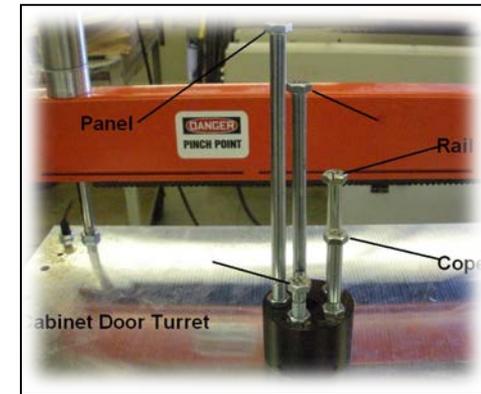
- 50" Maximum part size Table Clamping capacity is standard.

- Up to 24" wide Arch-Panel and Rail profiles are produced with NO Pre-Band Sawing necessary.

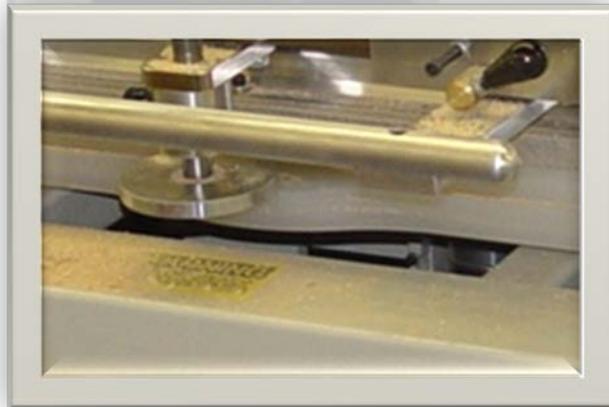
- Template Cartridge & Adjustable follower bearing easily produce multiple Arch rail and panel profiles with a single template cartridge.



- Sturdy pneumatic positioned fence quickly locates parts consistently



- 5 Position XS Turret Example cope / rail / panel + 2 edges



A UNIQUE LOOK

UNIQUE MACHINE & TOOL CO.

250 GT2 Series 5 Piece Door Machine - Basics



- “Centering” scale to ensure arches are centered on the work piece when machining Arched Panels and Rails.

- 250 GT2 makes powerful shaping simple with a 10HP – Direct Driven Perske Spindle Motor.



- Variable frequency drives produce a RPM range from 6,000 ~ 9,000 STD RPM*

**Varies by Motor (HSK 12,000 +)*

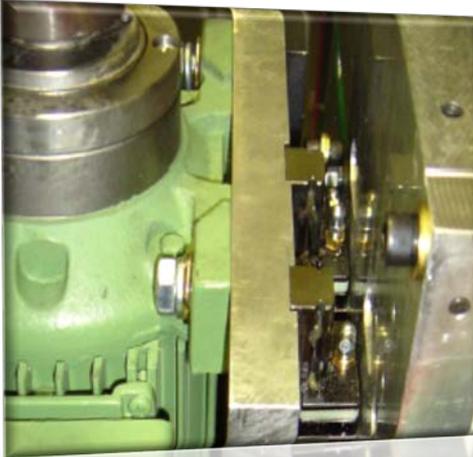
- The sturdy table is easy to move accurately and with 10HP Direct Drive pre-band sawing or pre-hogging of panel arches is not necessary.



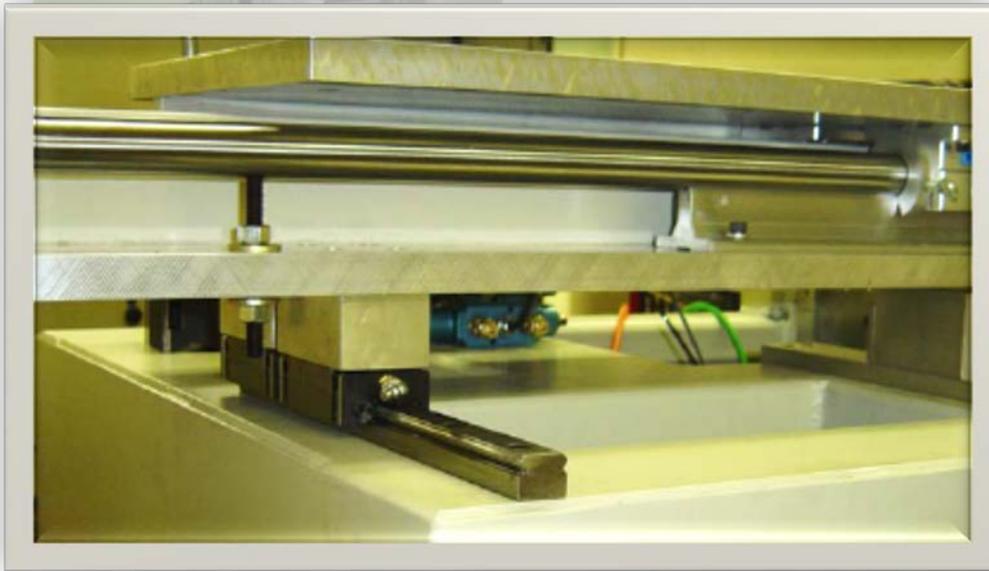
A UNIQUE LOOK

UNIQUE
MACHINE & TOOL CO.

250 GT2 Series 5 Piece Door Machine - Basics



- 250 GT2 incorporates Linear Rails and Bearing Motion on all Axis including "Square Rail" guide construction on the motor spindle cutter positioning and the Y-Axis work table movement.



- The GT2 Frame is Precision Machined by a very large CNC Mill after the Frame is welded, ensuring accurate placement & alignment linear motion rails and components.

A UNIQUE LOOK

UNIQUE
MACHINE & TOOL CO.

250 GT2 Series 5 Piece Door Machine - Mullions



- 1) Apply rail to ripped to width and cut to length part. (*note: ends should be coped first)
- 2) Take a scrap piece of wood and run a mating cope profile with the grain and assemble (no pin or glue) with rail from step one.
- 3) Once assembled, this will provide support to make the second rail cut on the opposite side of the material.
- 4) Assemble.

**** Safety Note:** *the joint must be fully held securely under the clamp-bar.*

A UNIQUE LOOK



250 GT2 Series 5 Piece Door Machine – Q&A

•**What does it do?** The 250GT is designed to machine all parts of a cabinet door so they are ready for assembly in less than two minutes.

•**How is this machine different from similar door machines?**

Over the years there have been many manufacturers that have produced machines very similar to the Unique Machine & Tool. However you can only be “**Unique**” the first time. of the current competitors the biggest difference you will find is:

1. **Experience** – In the last 26 years we have learned many things about the door machine. For this reason the machine has undergone many “Unique” revisions. Many competitive machines available are similar to the Old 250 Machine manufactured many years ago.
2. **Service** – Not only are all Unique Machine & Tool products sold through full service dealerships worldwide, a dedicated customer service staff backs them, and any User can get FREE training in Phoenix, Arizona.
3. **Solutions** – The Unique Machine & Tool product line is built around this Original door machine and the growth that its customers have experienced. From tooling, to parts, to future growth, Unique Machine & Tool has the answers to your door production needs.

4. 45 Years of American Made Quality that is hard to beat!

A UNIQUE LOOK



250 GT2 Series 5 Piece Door Machine – Q&A

What is all included with the purchase of a machine? One set of tooling (that includes one cope, rail, panel, trim and back cutter), one template (see template page for details), a manual, and one door made on your machine prior to shipment.

Can I use existing tooling? It is best to send a copy of your tooling drawings to either your local dealer or your Unique Machine & Tool factory representative to determine whether existing tooling dimensions will work on the Unique 250.

What is the longest part it can produce? 55" is the longest rail and 52" is the longest panel. Unique conservatively recommends 50" max part length.

•How many parts can it do? This is dependent on the width of the part. The 15" table capacity and clamps will assure of solid hold down when running multiple parts of the same thickness.

•Can it size parts? No, the machine is set up to only remove a set amount of material. However, many customers have added sizing fences to the table themselves.

A UNIQUE LOOK



250 GT2 Series 5 Piece Door Machine – Q&A

Why not just buy shapers to build my doors? In order to buy enough dedicated shapers to match what a Unique 250 can do, you would need a minimum of 4 shapers. One shaper for panels, one for coping with a cope fixture, one for rails, one for roughing out arches and an arch fixture along with tooling for each shaper. The total cost of all of this would be greater or equal to a Unique 250. This would also take up many times the amount of space, require more dust collection, more handling time from increased steps and movement between machines, reduced safety and more expensive electrical hookup required of multiple machines.

How much has the machine changed in the last 26 years? In concept, absolutely none, and since the machines introduction, we have increased HP on the motor, made the controls easier, put all of the cutters on one spindle, went from a belt driven spindle to a direct drive motor, added a variable speed drive, changed the setup and tool change systems, and changed the paint color.

What About edge details? Yes, the machine could be used to produce edge details, but it would not be efficient, a small router table or shaper would be more efficient and allow for better flow of production following the assembly of the door.

Can you really produce a door in two minutes? Absolutely! In fact, you can produce a door in 1 minute and 40 seconds. Click below or paste the link into your browser to see it yourself

For information, contact Stiles Enhancement Technologies
616.698.7500 | E-tech@stilesmachinery.com

stiles e-tech
Enhancement Technologies