



# Product Catalog 2025

**PRECISION WOODWORKING MACHINERY**



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## RM100 MiniMoulder

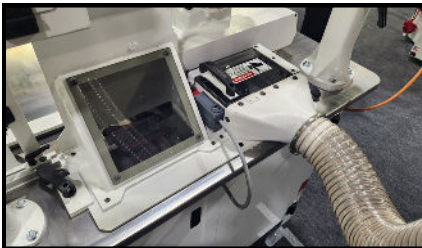
- HSK Quick Change Spindle, standard
- Digital readout for axial adjustment
- 8 HP at 12,000 RPM
- 230 volt or 480 volt
- Variable speed RPM
- Tool diameter: 5" (up to 7" available upon request)
- Bore diameter determined by tooling
- Hopper feed system
- Digitally positioned sizing fence
- Up to 20 preset "recipes" for pre-programmed set-ups
- Part length max: none
- Part length min: 5"
- Part width max: 8-1/2"
- Part width min: 1-1/2"
- Dust collection: 1x outlet at 4"
- Climb or conventional cutting
- Compressed air required: 80 PSI

### OPTIONAL FEATURES:

- Hydraulic/HSK Quick Change spindle
- Manual belt drive fence
- Higher HP Spindles up to 20 HP
- Powered Z-axis



**Integrated Rear Fence/Dust Hood**



**Material Hopper Feed System**



**PLC Touchscreen Controls**



## RM100 MiniMoulder Stile & Rail Machine

The RM100 is a high-efficiency stile and rail machine designed to increase your parts quality and parts production.

Thanks to features like the HSK quick change, digitally positioned material fence, hopper feed system, PLC touchscreen controls, and large parts "recipe" storage, the RM100 will change the way you profile your stiles and rails.

It's a user-friendly machine that your operators will enjoy using. Designed for precision and repeatability this machine is what you want to improve your manufacturing process.



## Hiland RM100 MiniMoulder

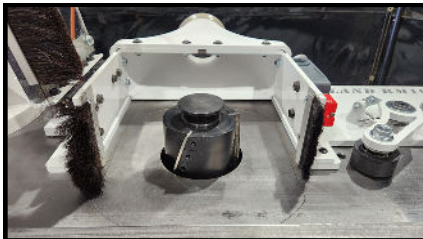
- HSK Quick Change Spindle, standard
- Digital readout for axial adjustment
- 8 HP at 12,000 RPM
- 230 volt or 480 volt
- Variable speed RPM
- Tool diameter: 5" (up to 7" available upon request)
- Bore diameter determined by tooling
- Material Bumpers
- Digitally positioned sizing fence
- Up to 20 preset "recipes" for pre-programmed set-ups
- Part length max: none
- Part length min: 5"
- Part width max: 8-1/2"
- Part width min: 1-1/2"
- Dust collection: 1x outlet at 4"
- Climb or conventional cutting
- Compressed air required: 80 PSI

### OPTIONAL FEATURES:

- Hydraulic/HSK Quick Change spindle
- Manual belt drive fence
- Higher HP Spindles up to 20 HP
- Powered Z-axis



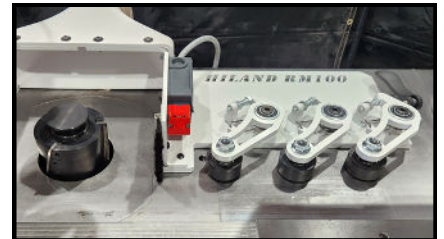
**HSK Quick Change Tooling**



**PLC Touch Screen Controls**



**Mechanical Material Bumpers**



## Hiland RM100 MiniMoulder Stile & Rail Machine

The Hiland RM100 from Ideal Machine is a version of the standard RM100 MiniMoulder but without the hopper feed system.

The Hiland model is equipped with 3 spring loaded material roller bumpers that ensure your material is still firmly pressed against the outer material fence.

This version of the RM100 still comes with many of the other MiniMoulder features like digitally positioned outer fence, PLC touchscreen controls, multiple parts "recipe" storage, and HSK quick change.





## IM101 HSK Wood Shaper

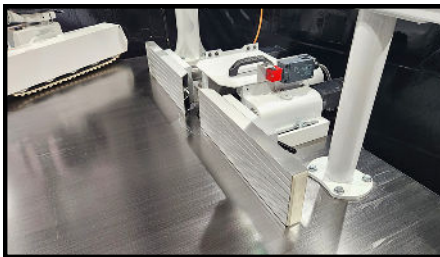
- HSK Quick Change Spindle, standard
- 8 HP at 7,500 RPM
- 230 volt or 480 volt
- Variable spindle RPM
- Bore diameter determined by tooling
- Adjustable cast iron fence
- Part length max: none
- Part length min: 6" (depending on part width)
- Tool diameter: 5" (up to 7" available upon request)
- Dust collection: outlets at 4"
- Compressed air required: 80 PSI

### OPTIONAL FEATURES:

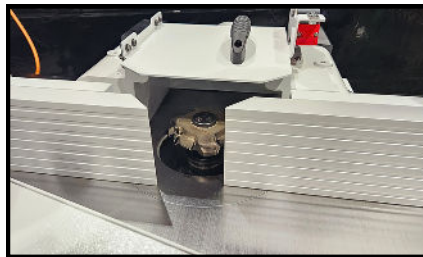
- Powered Z-axis
- Powered rear fence



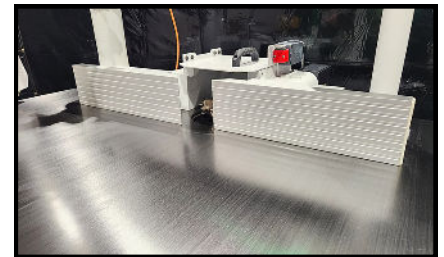
**Polished Steel Table Top**



**HSK Quick Change Tooling**



**Aluminum Rear Material Fence**



## IM101 HSK Simple Shaper

The IM101 HSK Shaper from Ideal Machine is a simple wood shaper built for efficient and precise parts processing.

Equipped with HSK quick change spindle for rapid changeover between jobs. The IM101 also features PLC touchscreen controls for easy operation.

The polished, solid steel table top creates a sturdy work surface and the rear material fence is made from aluminum and is independently adjustable.

The IM101 is an industrial-grade wood shaper designed to help you improve your manufacturing through quality and parts output.



## CM500S Cope Machine

- HSK Quick Change End Coping Machine
- HSK QC Direct Drive Electric Spindle
- HSK Quick Change Tooling
- Single Spindle Machine
- Max Material Width 12"
- Digitally Set Material Stop For Increased Accuracy
- Servo-Driven Feed Table
- Pneumatic Material Clamping
- PLC Touchscreen Controls
- Dust Collection: 4" Outlet



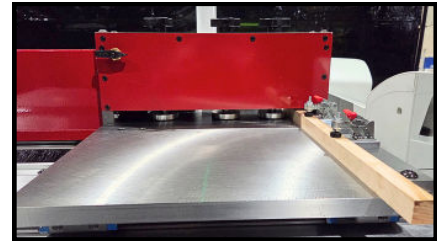
**Single-Spindle HSK Setup**



**Servo-Driven Material Table**



**Pneumatic Material Clamps**



## CM500S Single-Spindle HSK Cope Machine

Meet the CM500S, Ideal Machine's newest **HSK Cope Machine** to joining our machinery lineup. The CM500S is an **industrial coping machine for cabinet doors**. Featuring a single HSK quick change spindle, the CM500S uses a blow-out block with locking clamps to prevent material chipping. The HSK makes changeover fast and easy, saving production downtime and increasing production efficiency and speed.

The material sled can hold up to 12" of material to cope on each activation. You can cope one piece at a time up to 12" wide or any combination of parts at one time as long as their total combined width does not exceed 12". This allows you to **cope multiple parts at one time for faster material processing and increased parts production per hour**.



## CM900S Cope Machine

- 2x Counter-Rotating HSK Spindles
- Dual Station Material Coping
- HSK Quick Change Tooling
- 3-Axis Servo Positioning Of Cutter Heads For Fast & Accurate Setup & Cutter Head Adjustment
- 2x 8 HP Spindles @ 4,000 - 12,000 RPM
- Auto-Sensing Board Width For Faster Cycle Times
- Presets For Fast Tool Changeover
- Cut Cycle Time: 20 Seconds Per End Cope
- Dust Collection: 2x 4" Outlets
- Compressed Air Required: 80 PSI



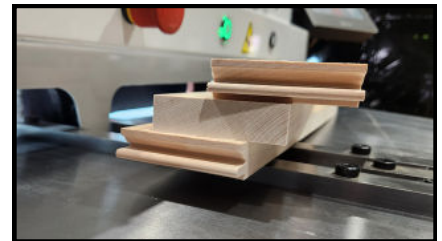
**Counter-Rotating Cutter Heads**



**Servo Positioning Of Cutter Heads**



**20 Second Cope Cycle Time**



## CM900S Double-Spindle Wood Cope Machine

The CM900S is the latest addition to the Ideal Machine lineup of standardized woodworking machinery. The CM900S features two counter-rotating cutter heads that work together to perfectly cope your material. It's setup with HSK quick change and 3-axis servo positioning of the cutter heads for fast and accurate setup and adjustment.

Two-station pendulum operation allows your operator to load multiple parts and the machine will go back and forth between station one and station two. When one station is finished and station two is being coped your operator can flip the piece in station one or insert a new piece. This allows for more efficient material processing.

The CM900S will process both ends of one piece of material in 20 seconds and its preset library holds multiple cutter head configurations.





## MH4 Half-Lap Machines

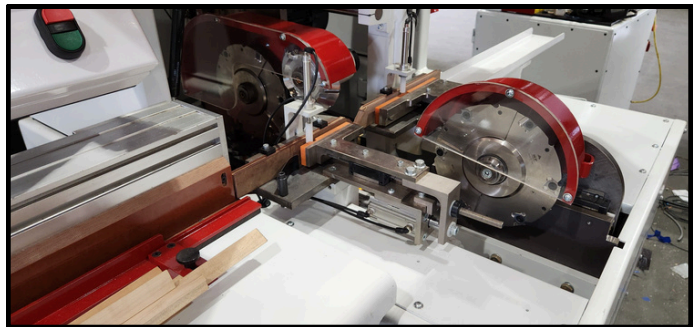
- Motors: 3 @ 1.1Kw ea. (1.5HP ea.)
- Voltage: 220-480 V
- RPM: 6,200 RPM @ 60Hz
- Air: 6 Bar (85 PSI)

- Tooling: Insert Carbide
- Profile Range: 1/4" to 1 1/2"

- Dust Collection: 6" Diameter
- Cycle Time: 4-6 Seconds
- One set of Tooling included

### OPTIONAL FEATURES:

- 8ft Auto Material Pusher (Longer lengths available)
- Window Grid Software
- Touchscreen Setup
- +/- 60 Degree Cut-Off Saw
- End Coping Station
- Hopper Feed System



**Cut Wood, Vinyl, & Aluminum**



**Optional Material Pusher**



**Window Grid Software**



## Available MH4 Half-Lap Machine Variations:

### MH4-E Half-Lap Machine

- 8ft Auto Material Pusher (Longer lengths available)
- Window Grid Software
- Touchscreen Setup

### MH4-ES Half-Lap Machine

- 8ft Auto Material Pusher (Longer lengths available)
- Window Grid Software
- Touchscreen Setup
- +/- 60 Degree Cut-Off Saw

### MH4-ESC Half-Lap Machine

- 8ft Auto Material Pusher (Longer lengths available)
- Window Grid Software
- Touchscreen Setup
- +/- 60 Degree Cut-Off Saw
- End Coping Station



## Automated Material Retrieval System

A local customer requested a Custom Steel Rack that would deliver material for their operators without needing a forklift.

We designed, built, and installed this 20ft tall Automated Material Retrieval System that allows the operator to input which material drawer they want and the steel rack delivers it.

This system is a safer way to store and retrieve material that needs to be regularly accessed for manufacturing.



## Automated Steel Rack

This kind of design would work for many different material types, wood, steel, aluminum, poly, and more.

If you are tired of relying on a forklift to retrieve material everyday then you should consider an automated material system like this one.

We can design, build, and install a rack similar to this one in your shop. We can customize the size of the rack to meet your needs.

Contact us if you are ready to start a conversation about an automated material retrieval system for your shop.







## Custom Manufacturing & Fabrication

Ideal Machine specializes in custom manufacturing projects. We love helping our customers solve their unique problems through designing and building custom solutions.

Whether you need a customized variation of one of our standard woodworking machines or a completely custom machine we're here to bring your vision to life.

We also offer custom design work and custom fabrication. Let us know how we can help you with your specific issue.

