



**IDEAL
MACHINE**

Product Catalog 2025

PRECISION **WOODWORKING MACHINERY**



10 S New Holland Rd, Gordonville, PA 17529

717.929.0472



RM100 MiniMoulder

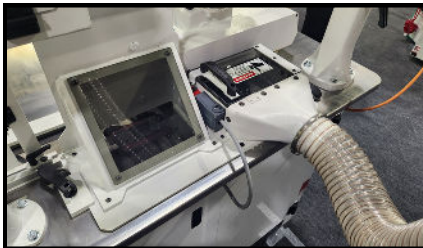
- HSK Quick Change Spindle, standard
- Digital readout for axial adjustment
- 8 HP at 12,000 RPM
- 230 volt or 480 volt
- Variable speed RPM
- Tool diameter: 5" (up to 7" available upon request)
- Bore diameter determined by tooling
- Hopper feed system
- Digitally positioned sizing fence
- Up to 20 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:

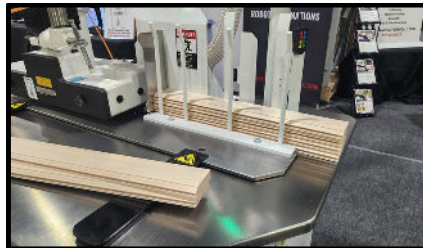
- Hydraulic/HSK Quick Change spindle
- Manual belt drive fence
- Higher HP Spindles up to 20 HP
- Powered Z-axis



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

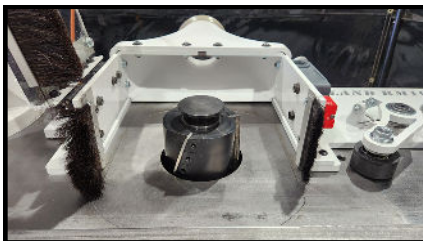
- HSK Quick Change Spindle, standard
- Digital readout for axial adjustment
- 8 HP at 12,000 RPM
- 230 volt or 480 volt
- Variable speed RPM
- Tool diameter: 5" (up to 7" available upon request)
- Bore diameter determined by tooling
- Material Bumpers
- Digitally positioned sizing fence
- Up to 20 preset "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



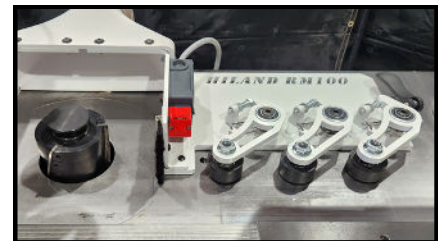
HSK Quick Change Tooling



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

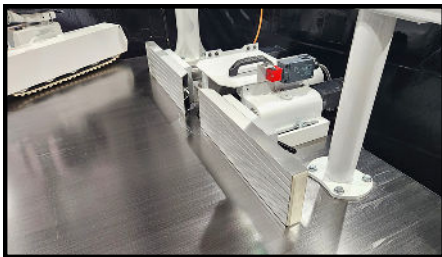
- HSK Quick Change Spindle, standard
- 8 HP at 7,500 RPM
- 230 volt or 480 volt
- Variable spindle RPM
- Bore diameter determined by tooling
- Adjustable cast iron fence
- Part length max: none
- Part length min: 6" (depending on part width)
- Tool diameter: 5" (up to 7" available upon request)
- Dust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

OPTIONAL FEATURES:

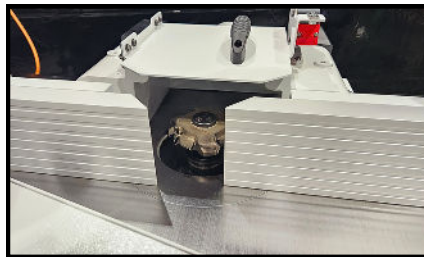
- Powered Z-axis
- Powered rear fence



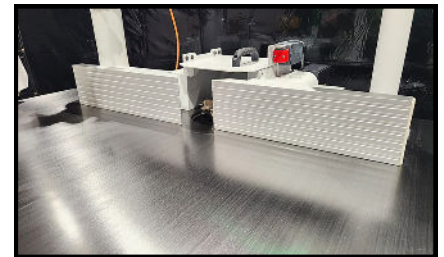
Polished Steel Table Top



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.



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



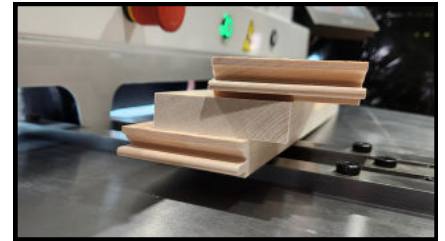
Counter-Rotating Cutter Heads



Servo Positioning Of Cutter Heads



20 Second Cope Cycle Time



CM900S Dual Station 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

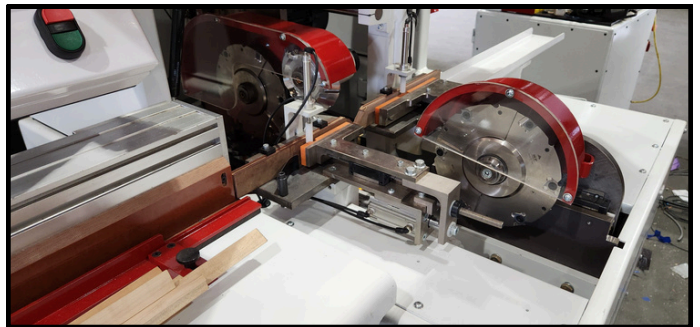
- Motors: 3 @ 1.1Kw ea. (1.5HP ea.)
- Voltage: 220-480 V
- RPM: 6,200 RPM @ 60Hz
- Air: 6 Bar (85 PSI)

- 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



IDEAL MACHINE



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.

