RazorGage

AUTOMATIC OPTIMIZING SAW SYSTEMS

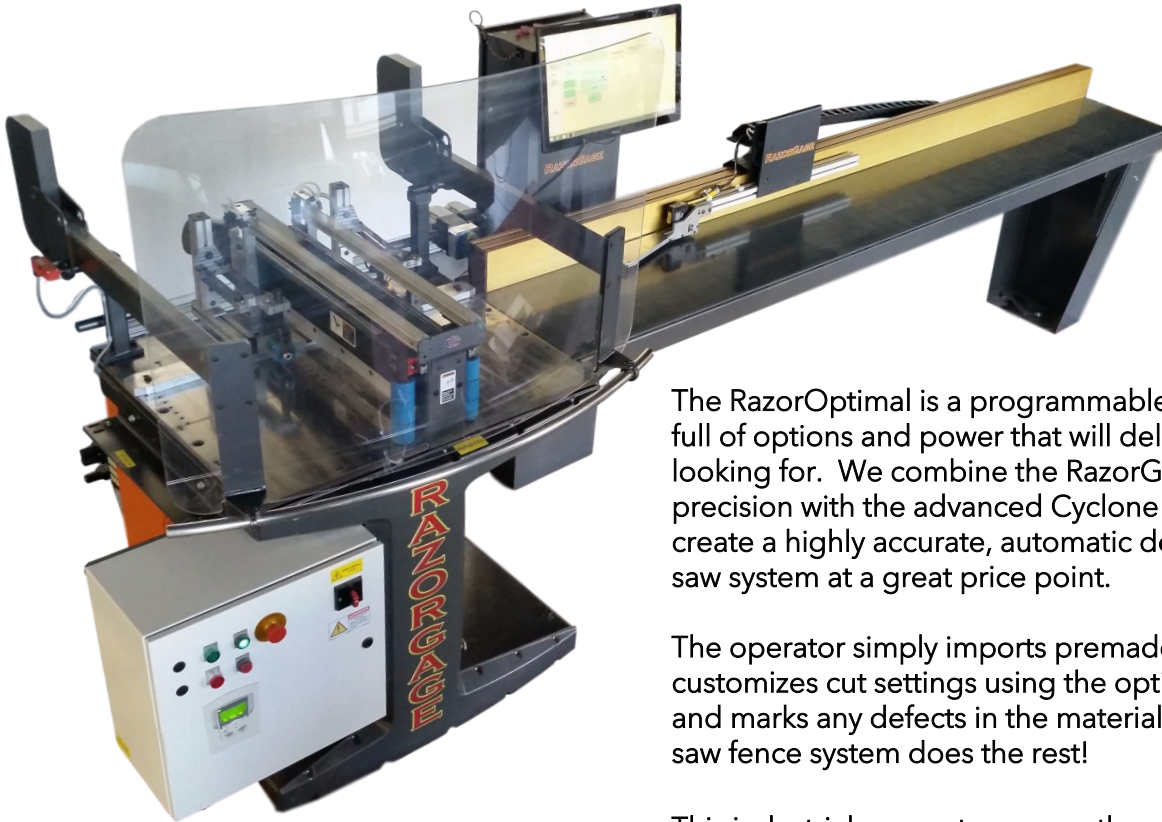# RAZOROPTIMAL CYCLONE OPTIMIZING SAW

BETTER BY DESIGN

Our optimizing saw systems are built to provide durable, easy-to-operate cutting systems that are powerful, safe and can improve operating efficiencies while reducing waste

RazorOptimal Cyclone

The RazorOptimal is a programmable saw system that is full of options and power that will deliver what you are looking for. We combine the RazorGage ST-Windows precision with the advanced Cyclone 600 upcut saw, to create a highly accurate, automatic defecting/optimizing saw system at a great price point.
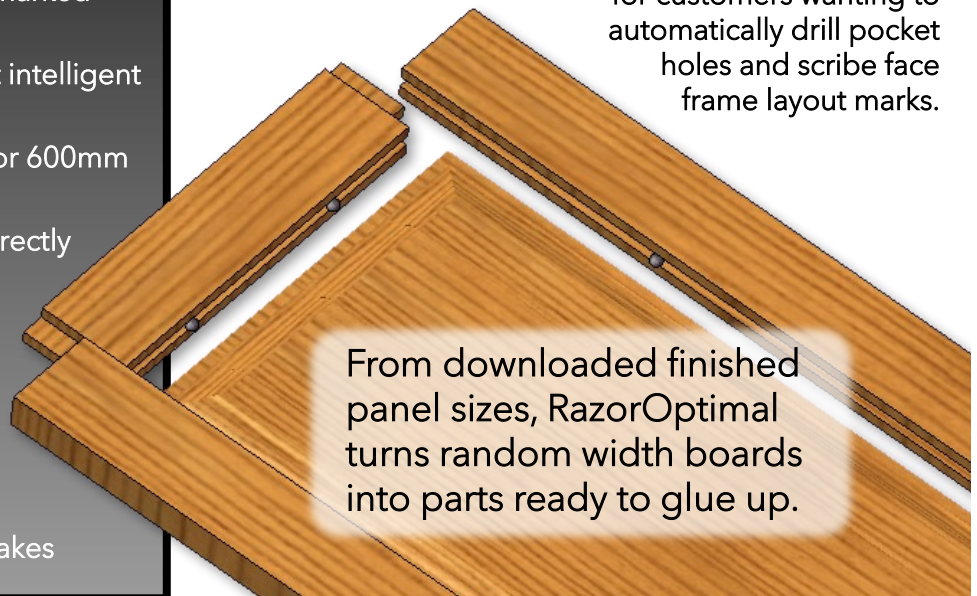
The operator simply imports premade cutlists or customizes cut settings using the optimizing saw software and marks any defects in the materials. The automated saw fence system does the rest!

This industrial saw system scans the material for defects, optimizes remaining parts to fit into the defect-free areas, automatically advances, cuts lineal stock and prints the part information directly on your material. The optimizing saw software is designed to maximize usable space on materials so that you don't end up with unnecessary waste.

The RazorOptimal Optimizing Saw System is unique in that it is available with either an up-cut saw or it can be outfitted with our 18-inch down-cut precision saw, for customers wanting to automatically drill pocket holes and scribe face frame layout marks.

FEATURES

- Windows Tower PC operation on a large, color touch-screen monitor

- Easy to use software. Store 1000's of cutlists, optimize, sort cutlists into 1000's of groups according to multiple criteria, and much more

- Optimizes between crayon marked defects

- Automatic top, left and right intelligent clamping

- Fitted with either a 500mm or 600mm blade

- Paper label printing, print directly on material or do both

- Part length accuracy varies with application but +/-.005" is possible

- Optional RazArray sorting light grid can be added to further improve operational efficiencies and reduce mistakes

From downloaded finished panel sizes, RazorOptimal turns random width boards into parts ready to glue up.

RazorOptimal Cyclone   *Better Software*

Our industry-leading software is powered by Microsoft Windows, so networking and file sharing is simple and seamless. Transfer files between your RazorOptimal programmable saw and any other PC in your office, home, or shop.

The RazorGage optimizing saw software is based on a rapid development platform, and it is constantly evolving to meet the needs of our customers. The software is robust and can be customized to suit a variety of operations and projects. When you purchase a RazorOptimal programmable saw fence system, our onsite installer will provide hands-on training for both hardware and software. Tutorials and other reference documents are available on our website. Soon after installation, you'll be able to jump in and start using your new programmable saw to maximum effect.

USER FRIENDLY INTERFACE

Simple touch screen menus allow for easy
access to all the features of your system

On-screen fluorescent scan results make verification easy.

View a list of cut parts and seamlessly add cut parts back into the cutlist.

Got a rush job? Want to get all the door rails out first? With RazorOptimal you can re-sort right at the machine.

Track yield & productivity associated with operators and wood suppliers.

Label setup is easy and intuitive.

You can even chose to print decimals in fraction format.

RazorOptimal Cyclone

Options / Specifications

Specifications

Power Requirements	Positioner - 120 VAC, 10Amp Saw (7.5hp) - 208-230VAC, 3-phase, 30 Amp -or- 460VAC, 3-phase, 20Amp
Dust Collection	Two 4" diameter (102mm) requiring 600 cfm (17m³) minimum for dry light materials. Other material may need higher velocity/pressure.
Compressed Air	Requires 80 psi (5.5 bar) at 5 cfm (0.14m³) air filtered to 2.5 microns (oil and moisture free). Use industrial air dryer, rated for cfm (CM) flow. No lubrication required for air components. Air must be lubricant free.
Motor RPM	Variable from 2200 to 3450
20" Blade for Wood	120T x 1" Bore
24" Blade for Wood	144T x 1" Bore
Push Force	200 lbs at 10 inches per second
Maximum Push Speed	50 inches per second
Stock length Capacity	Up to 16 feet

Cyclone 600 Width Capacity for Common Blades

Material Thickness	14" Blade	16" Blade	18" Blade	500mm Blade	22" Blade	24" Blade
0.5	6.97	10.38	13.23	15.42	18.27	20.62
0.75	6.04	9.77	12.76	15.02	17.93	20.32
1	4.89	9.10	12.25	14.59	17.57	20.00
1.25	3.32	8.35	11.70	14.13	17.19	19.67
1.5		7.49	11.10	13.64	16.79	19.32

Outfeed Table

- Height adjusts from 34.5" to 44.5"
- 1/4" Solid PVC Sheet
- Durable powder coat finish

RazArray Sorting Assist

Helps you organize parts as they come off the RazorOptimal.

Ink Jet Printer

Print directly on parts to keep them organized.

Label Printer & Stand

Print paper labels to help keep your parts organized.

Printer can be purchased with or without the stand.

Space Requirements for Standard RazorOptimal Cyclone

2 x 4" Dust Collection Ports

57.8

20.8

43.8

16.3

68.9

36.8

62.6

OUTFEED TABLE LENGTH

37.1

STROKE + 24"

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For detailed information, videos, & manuals, visit www.razorgage.com