

RAZORGAGE

AUTOMATIC OPTIMIZING SAW SYSTEMS

RAZOROPTIMAL POCKET HOLE OPTIMIZING SAW



**BETTER
BY
DESIGN**

The only crayon
defecting, optimizing
saw that drills
pocket holes and
scribes face frame
layout lines,
all in one operation!
Face frame parts
come off the machine
ready for assembly



WWW.RAZORGAGE.COM

515.232.3188 • Sales@RazorGage.com

RazorOptimal Pocket Hole

Automatic Optimizing Saw Systems

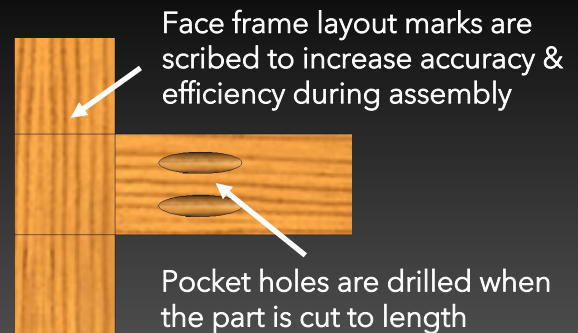
The RazorOptimal programmable saw system with pocket hole machine option is capable of transforming your cutting operation. With the precision of our [RazorGage RG3](#) Automatic Saw Measuring System and the power of our pocket hole drilling down-cut saw, we created a highly accurate, optimizing saw system to streamline your processes unlike any other pocket hole drill machine on the market.

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! The saw system scans the material for defects and automatically optimizes all cuts to fit within defect-free areas of your material, maximizing the usable area. Then, the pocket hole saw system automatically advances, cuts lineal stock, drills pocket holes, scribes face frame layout lines and prints the part information directly on your material.



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
- ◆ Drills pocket hole & scribes layout face frame marks
- ◆ Automatic top, left and right intelligent clamping
- ◆ 18" saw blade
- ◆ Paper label printing, print directly on material or do both
- ◆ Part length accuracy varies with application but $\pm .005$ " 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 Pocket Hole

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

The interface features a grid of buttons for various functions. The top row includes buttons for 7, 8, 9, and CLEAR ALL. The second row includes buttons for 4, 5, 6, and a large GO button. The third row includes buttons for 1, 2, 3, and a large GO button. The bottom row includes buttons for 1/32, 1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, and 1/2. The interface also includes a 'READY TO MOVE' button and a 'STOP MODE' button.

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

AUTOLIST SCREEN

The AUTOLIST SCREEN displays a table of parts with columns for ID, FILENAME, QTY, ORIG QTY, LENGTH, PROJECT#, JOB NAME, JOB #, PART DESC, FINISH, PART #, INCUTLIST, and POCKET I. The table lists 18 parts, all of which are 'service glass cutlist - Copy (7)'. The interface also includes buttons for 'CLOSE FILE', 'PUSHER', 'Switch to STOP Mode', 'STOP MODE', 'PUSHER MODE', 'AUTOLIST', 'SETTINGS', 'UNLOAD', 'MOVE TO LOW LIMIT', 'MOVE TO HIGH LIMIT', 'Units', 'READY TO MOVE', 'VIEW LABEL', 'FIT PARTS-LOAD OUT', 'EXHAUSTIVE ENUMERATION', 'CURRENT GROUP', 'GROUPS', 'COLUMN DISPLAY', 'ALL PARTS', 'PRINTER', 'OPTIONS', 'Label Printing', 'Stack Only', and 'Each Part'.

GROUPING SCREEN

The GROUPING SCREEN displays a table of parts with columns for ID, FILENAME, QTY, ORIG QTY, LENGTH, PROJECT#, JOB NAME, JOB #, PART DESC, FINISH, PART #, INCUTLIST, and POCKET I. The table lists 18 parts, all of which are 'service glass cutlist - Copy (7)'. The interface also includes buttons for 'CLOSE FILE', 'PUSHER', 'Switch to STOP Mode', 'STOP MODE', 'PUSHER MODE', 'AUTOLIST', 'SETTINGS', 'UNLOAD', 'MOVE TO LOW LIMIT', 'MOVE TO HIGH LIMIT', 'Units', 'READY TO MOVE', 'VIEW LABEL', 'FIT PARTS-LOAD OUT', 'EXHAUSTIVE ENUMERATION', 'CURRENT GROUP', 'GROUPS', 'COLUMN DISPLAY', 'ALL PARTS', 'PRINTER', 'OPTIONS', 'Label Printing', 'Stack Only', and 'Each Part'.

LABEL SETUP SCREEN

The LABEL SETUP SCREEN displays a table of parts with columns for ID, FILENAME, QTY, ORIG QTY, LENGTH, PROJECT#, JOB NAME, JOB #, PART DESC, FINISH, PART #, INCUTLIST, and POCKET I. The table lists 18 parts, all of which are 'service glass cutlist - Copy (7)'. The interface also includes buttons for 'CLOSE FILE', 'PUSHER', 'Switch to STOP Mode', 'STOP MODE', 'PUSHER MODE', 'AUTOLIST', 'SETTINGS', 'UNLOAD', 'MOVE TO LOW LIMIT', 'MOVE TO HIGH LIMIT', 'Units', 'READY TO MOVE', 'VIEW LABEL', 'FIT PARTS-LOAD OUT', 'EXHAUSTIVE ENUMERATION', 'CURRENT GROUP', 'GROUPS', 'COLUMN DISPLAY', 'ALL PARTS', 'PRINTER', 'OPTIONS', 'Label Printing', 'Stack Only', and 'Each Part'.

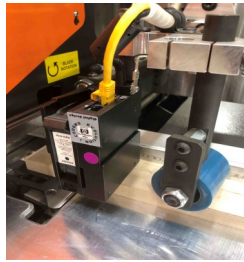
RazorOptimal Pocket Hole *Options / Specifications*

OUTFEED TABLE



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

INK JET PRINTER



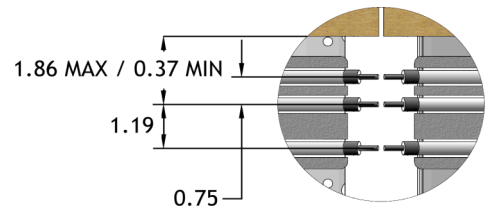
Print directly on parts to keep them organized.

RAZARRAY SORTING ASSIST



Helps you organize parts as they come off the RazorOptimal.

RazorOptimal Pocket Hole Specifications

Power Requirements	<u>Positioner</u> - 120 VAC, 10Amp <u>Saw</u> (5 hp) - 208-230VAC, 3-phase, 30 Amp -or- 460VAC, 3-phase, 20Amp	
Dust Collection	4" diameter (102mm) requiring 600 cfm (17m ³) minimum for dry light materials. Other material may need higher velocity/pressure.	
Compressed Air	Requires 80 psi (5.5 bar) at 5 cfm (0.14m ³) 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	Pocket Hole Drill Spacing 
18" Blade for Wood	108T x 1" Bore	
Push Force	200 lbs at 40 inches per second	
Maximum Push Speed	50 inches per second	
Stock length Capacity	Up to 16 feet	
Pocket Hole Saw Maximum Material Capacity - 1.5" x 12"		

Space Requirements for Standard RazorOptimal Pocket Hole

