

# 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](http://WWW.RAZORGAGE.COM)

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# RazorOptimal Pocket Hole

*Automatic Optimizing Saw Systems*

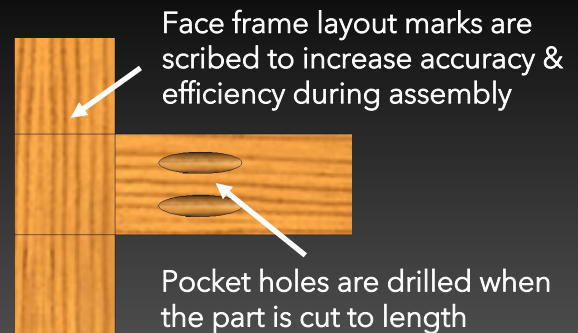
The RazorOptimal programmable saw system with pocket hole machine option is capable of transforming your cutting operation. With the precision of our [RazorGage RG3](#) Automatic Saw Measuring System and the power of our pocket hole drilling down-cut saw, we created a highly accurate, optimizing saw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

3-4 Quartersawn Oak(All Parts) - Copy (7).r3d

Start Trim: 1 End Trim: 1 Stock Length: 80

Group Parts Groups All Parts Printing

QTY LEFT: 45 LENGTH LEFT: 1572.875

id	QTY	LENGTH	MATERIAL	MATERIAL ID	PART DESC	WIDTH	THICKNESS	ROOM NAME	ROOM#	CABINET NAME	CABINET#	SCRIBES	POCKET HOLES	PANEL W
6	1	18	3/4 Quartersawn Oak	0	BR	1.5	0.75	living room	1	Wall Single	5			0
7	1	18	3/4 Quartersawn Oak	0	CR	1.5	0.75	living room	1	Wall Single	5			0
8	1	60	3/4 Quartersawn Oak	0	LS	1.5	0.75	living room	1	Wall Single	5	4/46.5/1.5/6.5		0
9	1	60	3/4 Quartersawn Oak	0	RS	1.5	0.75	living room	1	Wall Single	5	1.5/6.5/1.5/46.5		0
21	1	18	3/4 Quartersawn Oak	0	BR	1.5	0.75	living room	1	Wall Single	3			0
22	1	18	3/4 Quartersawn Oak	0	CR	1.5	0.75	living room	1	Wall Single	3			0
23	1	60	3/4 Quartersawn Oak	0	LS	1.5	0.75	living room	1	Wall Single	3	4/46.5/1.5/6.5		0
24	1	60	3/4 Quartersawn Oak	0	RS	1.5	0.75	living room	1	Wall Single	3	1.5/6.5/1.5/46.5		0
42	1	31.25	3/4 Quartersawn Oak	0	LS	1.5	0.75	living room	1	Base Open	1	1.5/5/1.5/10.125/1.5/10.125		0
44	1	31.25	3/4 Quartersawn Oak	0	RS	1.5	0.75	living room	1	Base Open	1	1.5/10.125/1.5/10.125/1.5/5		0
45	1	33	3/4 Quartersawn Oak	0	BR	1.5	0.75	living room	1	Base Open	1			0
46	1	33	3/4 Quartersawn Oak	0	CR	1.5	0.75	living room	1	Base Open	1			0
47	1	33	3/4 Quartersawn Oak	0	CR	1.5	0.75	living room	1	Base Open	1			0
48	1	33	3/4 Quartersawn Oak	0	TR	1.5	0.75	living room	1	Base Open	1			0
60	1	31.25	3/4 Quartersawn Oak	0	LS	1.5	0.75	living room	1	Base Open	2	1.5/5/1.5/10.125/1.5/10.125		0
61	1	31.25	3/4 Quartersawn Oak	0	RS	1.5	0.75	living room	1	Base Open	2	1.5/10.125/1.5/10.125/1.5/5		0
62	1	33	3/4 Quartersawn Oak	0	BR	1.5	0.75	living room	1	Base Open	2			0
63	1	33	3/4 Quartersawn Oak	0	CR	1.5	0.75	living room	1	Base Open	2			0
64	1	33	3/4 Quartersawn Oak	0	CR	1.5	0.75	living room	1	Base Open	2			0
65	1	33	3/4 Quartersawn Oak	0	TR	1.5	0.75	living room	1	Base Open	2			0
82	1	18.5	3/4 Quartersawn Oak	0	CS	1.5	0.75	living room	1	Wall Pair	4			0
83	1	24	3/4 Quartersawn Oak	0	LS	1.5	0.75	living room	1	Wall Pair	4	4/18.5		0

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

## MAIN SCREEN

RG3 v1.9.6.0 Serial Number: 20220000

3-4 Quartersawn Oak(All Parts) - Copy (7).r3d

CLOSE THE FILE Start Trim: 1 End Trim: 1 Stock Length: 80 FIT PARTS RG3Mapper

Filtered Parts All Parts Update Qty

Group Parts Groups All Parts Printing

QTY LEFT: 45 LENGTH LEFT: 1572.875

id	QTY	LENGTH	MATERIAL	MATERIAL ID	PART DESC	WIDTH	THICKNESS	R
6	1	18	3/4 Quartersawn Oak	0	BR	1.5	0.75	liv
7	1	18	3/4 Quartersawn Oak	0	CR	1.5	0.75	liv
8	1	60	3/4 Quartersawn Oak	0	LS	1.5	0.75	liv
9	1	60	3/4 Quartersawn Oak	0	RS	1.5	0.75	liv
21	1	18	3/4 Quartersawn Oak	0	BR	1.5	0.75	liv

## GROUPING SCREEN

Group Parts Groups All Parts Printing

MATERIAL	WIDTH	QTYLEFT	LENGTHLEFT
3/4 Quartersawn Oak	1.5	45	1572.875
3/4 Quartersawn Oak	2.25	84	1749.25
3/4 Quartersawn Oak	3	2	70.5
3/4 Quartersawn Oak	3.25	1	10.75
3/4 Quartersawn Oak	4	5	135
3/4 Quartersawn Oak	4.5	1	26.5
3/4 Quartersawn Oak	5.25	2	29
3/4 Quartersawn Oak	5.5	2	47.375
3/4 Quartersawn Oak	6	4	113.5
3/4 Quartersawn Oak	7.125	2	54.375
3/4 Quartersawn Oak	7.25	1	18.25
3/4 Quartersawn Oak	7.5	2	38
3/4 Quartersawn Oak	9.8125	6	152.625
3/4 Quartersawn Oak	10.375	2	32.375

Select Options

Group By MATERIAL ID QTY PART DESC LENGTH THICKNESS ROOM NAME ROOM# CABINET NAME CABINET# SCRIBES

Move Up Move Down Save Cancel

## LABEL CREATION SCREEN

Group Parts Groups All Parts Printing

SAVE Print Test Ink Jet Printer Ink Jet Printer

Printing Enabled Paper Label Ink Jet Font Size 12

LINE	FIELD 1	FIELD 2	FIELD 3
LINE 1	45 PART DESC	WIDTH IN	LENGTH
LINE 2	ROOM NAME	CABINET NAME	CABINET#
LINE 3	EMPTY	EMPTY	EMPTY
LINE 4	EMPTY	EMPTY	EMPTY



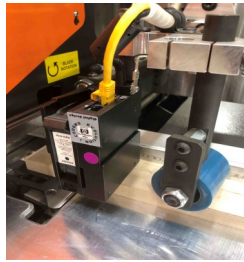
# RazorOptimal Pocket Hole *Options / Specifications*

## OUTFEED TABLE



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

## INK JET PRINTER



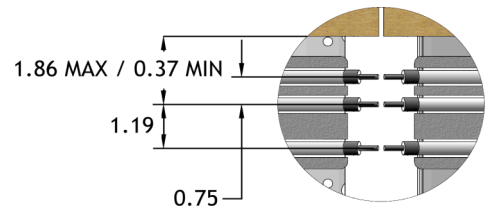
Print directly on parts to keep them organized.

## RAZARRAY SORTING ASSIST



Helps you organize parts as they come off the RazorOptimal.

### RazorOptimal Pocket Hole Specifications

<b>Power Requirements</b>	<u>Positioner</u> - 120 VAC, 10Amp <u>Saw</u> (5 hp) - 208-230VAC, 3-phase, 30 Amp -or- 460VAC, 3-phase, 20Amp	
<b>Dust Collection</b>	4" diameter (102mm) requiring 600 cfm (17m <sup>3</sup> ) minimum for dry light materials. Other material may need higher velocity/pressure.	
<b>Compressed Air</b>	Requires 80 psi (5.5 bar) at 5 cfm (0.14m <sup>3</sup> ) 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.	
<b>Motor RPM</b>	Variable from 2200 to 3450	<b>Pocket Hole Drill Spacing</b> 
<b>18" Blade for Wood</b>	108T x 1" Bore	
<b>Push Force</b>	200 lbs at 40 inches per second	
<b>Maximum Push Speed</b>	50 inches per second	
<b>Stock length Capacity</b>	Up to 16 feet	
<b>Pocket Hole Saw Maximum Material Capacity - 1.5" x 12"</b>		

### Space Requirements for Standard RazorOptimal Pocket Hole

