

RAZORGAGE APS

AUTO PUSHER SAW SYSTEM



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.



WWW.RAZORGAGE.COM

515-232-3188 | Sales@RazorGage.com

RAZORGAGE

APS AUTO PUSHER

Automatic Optimizing Saw Systems



The [APS](#) Automatic Optimizing Upcut Saw System is built around the powerful and highly accurate [RazorGage RG3](#) Automatic Saw Measuring System & the durable, clean-cutting Cyclone 600 Upcut Saw.

The APS optimizes your cuts but the main feature is the Automatic Pusher System which allows you to push "Go" and stand back. The automatic saw does the work and allows one person to both feed the saw and stack the finished parts, with no interruption.

The Intelligent Clamping System (ICS) eliminates the dangerous condition caused by half clamping the leading or trailing edge of your material, which leads to scrapped parts. The ICS assures that material is held securely both horizontally and vertically. The accuracy and efficiency of the cutting process eliminates mistakes which further optimizes the production flow to minimize the time required to complete the job. Great for cutting Wood, Fiberglass, Aluminum or nearly any non-ferrous metal. Aluminum cutting option includes an aluminum cutting blade and an air-powered, dual-tipped, spray mist lubrication system .

FEATURES

- ◆ Download cutlists directly to the RazorGage PC via Ethernet, USB drive or Wifi
- ◆ Optimize at the machine or run pre-optimized lists from your design software
- ◆ Sort cutlists into almost unlimited groups of like material, color, job & more, right at the machine
- ◆ Part length accuracy varies with application but $\pm .005$ " is possible
- ◆ Push 200 lb at 50" per second
- ◆ Print paper labels or inkjet print directly on the parts
- ◆ Table surface options include solid PVC, PVC rollers or steel rollers
- ◆ Windows Tower PC operation on a large, color touch-screen monitor
- ◆ Optional articulated pusher mounted gripper

APS AUTO PUSHER

Better Software

The automated saw software on this optimizing industrial upcut saw system gives you the ability to download your cutlists and use multiple criteria to sort lists into hundreds of groups. Our RazorGage

software is flexible, allowing you to import pre-made lists or edit and create cutlists right at the saw. Our software solutions are designed to be intuitive and able to adapt to all types of projects and applications.

Pusher Mode - Repeating Pattern

test screen shot.rtp

Close The File (*.rtp) Create New (*.rtp)

Stock Length: 80 Load Position: 85 Lead Trim: 1 Saw Kerf: 0.2 Home Offset: 1

INDEX #	LENGTH
1	20
2	24
3	12
4	12

READY FOR LOAD

LOAD

Pusher Mode - List

C:\Cutlists Created Manually for AutoListManualList-06042024-135811.csv

Close the File Create New Cutlist

Start Trim: 1 End Trim: 1 Stock Length: 20 Stacking Qty: 1

INDEX	LENGTH	ORIG. QTY	REM. QTY	MATERIAL	DESCRIPTION	OPTIMIZE
1	24	12	12	oak	stole	<input checked="" type="checkbox"/>
2	16	3	3	oak	rail	
3	14	6	6	oak	rail	
4	20	9	9	oak	rail	

GO

Rem. Qty: +1

Rem. Qty: -1

All Rem. Qty

AutoList Optimizing Screen

Position: 0

Move To: UNLOAD

MOVE TO LOW LIMIT

MOVE TO HIGH LIMIT

Units: ☒ Inches ☐ Millimeters

READY TO MOVE

CLOSE FILE service glass cutlist - Copy (7).r3d

PUSHER

Switch to STOP Mode

STOP MODE

PUSHER MODE

AUTOLIST

SETTINGS

Options

QTY: + - RESTORE SET RESTORE ALL

Trim: START: 1 END: 1

BAR LENGTH: 80

FIT PARTS-LOAD OUT

EXHAUSTIVE ENUMERATION

CURRENT GROUP GROUPS COLUMN DISPLAY ALL PARTS PRINTER

QTY LEFT: 128 LENGTH LEFT: 12817

ID	FILENAME	QTY	ORIG QTY	LENGTH	PROJECT#	JOB NAME	JOB #	PART DESC	FINISH	PART #	INCUTLIST	POCKET I
1	service glass cutlist - Copy (7)	1	1	249	Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	CW5-A	0	
2	service glass cutlist - Copy (7)	1	1	34	Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	CW10-E	0	
3	service glass cutlist - Copy (7)	1	1	240	Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	GG-59	0	
4	service glass cutlist - Copy (7)	1	1	47	Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	CC-49	0	
5	service glass cutlist - Copy (7)	1	1	240	Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	JJ-62	0	
6	service glass cutlist - Copy (7)	1	1	47	Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	EE-50	0	
7	service glass cutlist - Copy (7)	1	1	218	Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	DDL-52	0	
8	service glass cutlist - Copy (7)	1	1	69	Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	G-21	0	
9	service glass cutlist - Copy (7)	1	1	218	Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	DDL-53	0	
10	service glass cutlist - Copy (7)	1	1	66	Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	B-2	0	
11	service glass cutlist - Copy (7)	1	1	218	Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	DDR-54	0	
12	service glass cutlist - Copy (7)	1	1	66	Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	B-2	0	
13	service glass cutlist - Copy (7)	1	1	218	Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	DDR-55	0	
14	service glass cutlist - Copy (7)	1	1	66	Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	B2-4	0	
		1	203		Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	BB1-46	0	
		1	84		Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	X-40	0	
		1	192		Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	BB2-47	0	
		1	90		Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	CW6-C	0	

VIEW LABEL

Sort your cut list into hundreds of groups by multiple criteria

Optimize at the machine or run pre-optimized lists according to a cutting plan

Create unlimited cut list mappings

Accommodates secondary operations

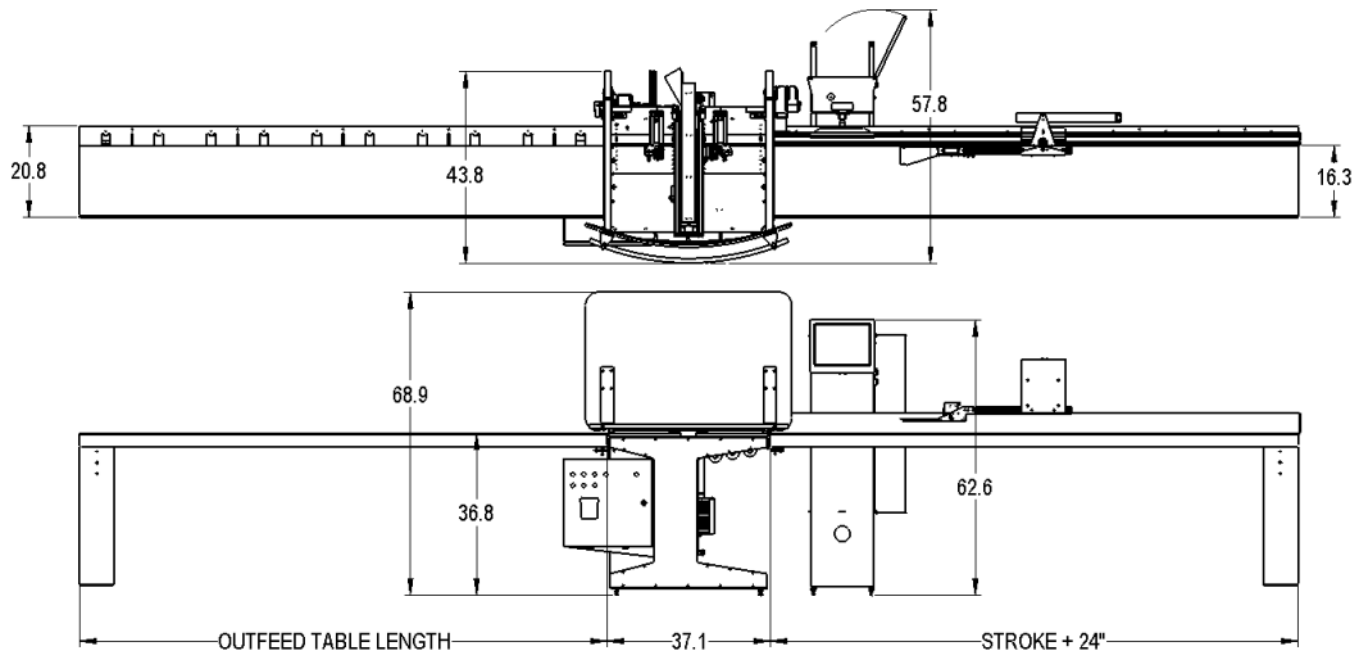
Print custom labels

APS AUTO PUSHER

Specifications

APS Automatic Pusher Saw System 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 (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
20" Blade for Wood	ATB, Carbide Tip, 120T x 1" Bore
24" Blade for Wood	ATB, Carbide Tip, 144T x 1" Bore
20" Blade for Aluminum	TCG, Carbide Tip, 140T x 1" Bore
24" Blade for Aluminum	TCG, Carbide Tip, 200T x 1" Bore
Push Force	200 lbs at 40 inches per second
Maximum Push Speed	50 inches per second
Material Length Capacity	Up to 60 feet

Material Thickness	Cyclone 600 Width Capacity for Common Blade Diameters					
	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
1.75		6.49	10.44	13.11	16.36	18.95
2		5.25	9.72	12.54	15.90	18.55
2.25		3.56	8.91	11.92	15.42	18.14
2.5			7.98	11.24	14.90	17.70
2.75			6.90	10.50	14.35	17.24
3			5.58	9.68	13.75	16.74
3.25			3.78	8.75	13.11	16.22
3.5				7.68	12.42	15.67
3.75				6.40	11.67	15.08
4				4.75	10.84	14.45
4.25				1.99	9.92	13.77
4.5					8.88	13.03
4.75					7.68	12.24
5					6.20	11.37
5.25					4.20	10.40
5.5						9.30
5.75						8.03
6						6.49



System Options & Accessories

- ♦ Ink Jet Printer
- ♦ Basic or Gang Stop Extension
- ♦ Standard or Heavy Duty Gripper
- ♦ Rolling Pin Canted Roller
- ♦ Tables – Heavy Gauge, Powder Coated Steel
 - Height adjusts from 34.5" to 44.5"
 - Surfaces – 1/4" Solid PVC, PVC Rollers, Steel Rollers