

RAZORGAGE

PRECISION SIMPLIFIED

APS AUTOPUSHER 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



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APS Autopusher Saw

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 +/- .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
- ◆ Optional spray mist, blade lubricating for cutting aluminum

APS Autopusher Saw

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

LIST

REPEATING PATTERN

test screen shot.rpp

Close The File(*.rpp)

Create New (*.rpp)

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

1

2

3

4

Pusher Mode - List

LIST

REPEATING PATTERN

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

Close the File

Create New Cutlist

Start Trim

End Trim

Stock Length

Stacking Qty

1

1

70

1

INDEX#

LENGTH

ORIG. QTY

REM. QTY

MATERIAL

DESCRIPTION

1

24

12

12

oak

stile

2

16

3

3

oak

rail

3

14

6

6

oak

rail

4

20

9

9

oak

rail

☒ OPTIMIZE

GO

Rem. Qty +1

Rem. Qty -1

All Rem. Qty

AutoList Optimizing Screen

RG3 v2.10.2.0 Serial Number: 20230009

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

QTY

+

-

RESTORE

SET

RESTORE ALL

Trim

START: 1

END: 1

BAR LENGTH: 80

FIT PARTS-LOAD OUT

EXHAUSTIVE ENUMERATION

Stacking

Quantity: 1

Label Printing:

☐ Stack Only
☒ Each Part

STOP MODE

PUSHER MODE

AUTOLIST

SETTINGS

CURRENT GROUP

GROUPS

COLUMN DISPLAY

ALL PARTS

PRINTER

OPTIONS

QTY LEFT: 128

LENGTH LEFT: 3217

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	<input type="checkbox"/>
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	<input type="checkbox"/>
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	<input type="checkbox"/>
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	<input type="checkbox"/>
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	<input type="checkbox"/>
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	<input type="checkbox"/>
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	<input type="checkbox"/>
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	<input type="checkbox"/>
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	<input type="checkbox"/>
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	<input type="checkbox"/>
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	<input type="checkbox"/>
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	<input type="checkbox"/>
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	<input type="checkbox"/>
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	<input type="checkbox"/>
		1		203	Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	BB1-46	0	<input type="checkbox"/>
		1		84	Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	X-40	0	<input type="checkbox"/>
		1		192	Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	BB2-47	0	<input type="checkbox"/>
		1		90	Enter project #	Century Center	9879	Stool trim type 2	Finish 1 Finish 2	CW6-C	0	<input type="checkbox"/>

Sort your cut list into hundreds

Create unlimited

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

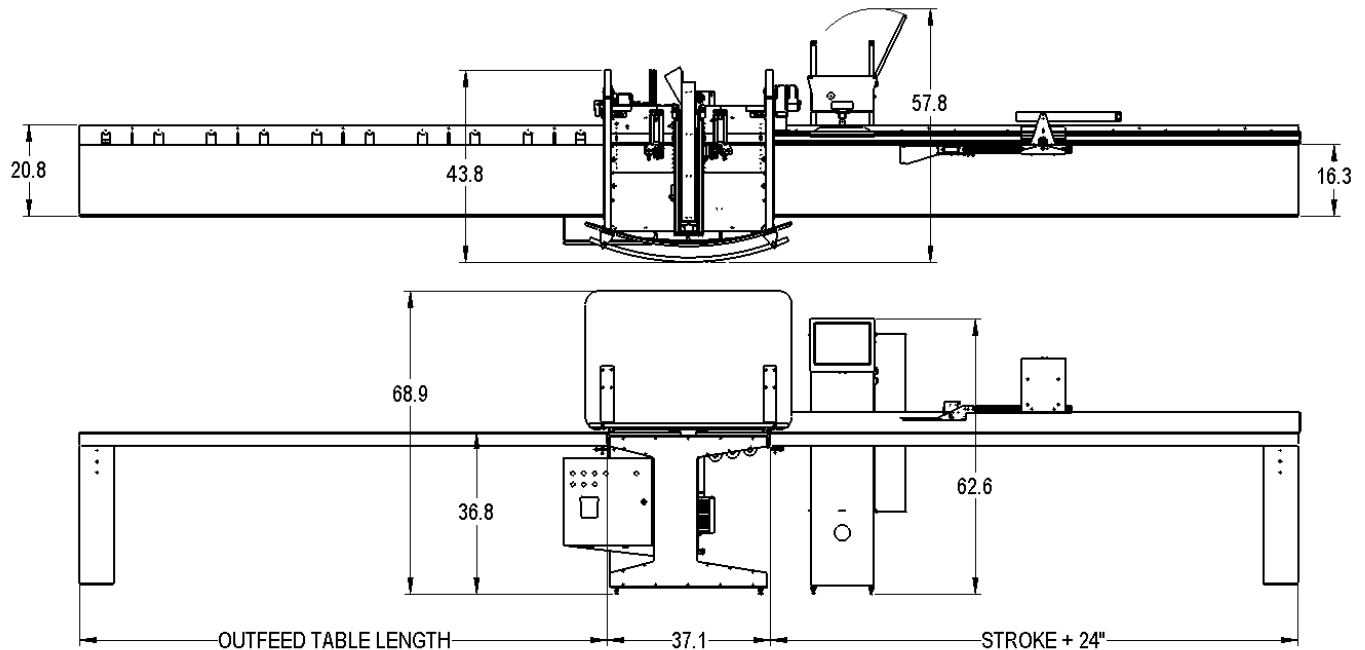
Accommodates
secondary
operations

Print
custom
labels

APS Autopusher Saw *Specifications*

APS Autopusher 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

