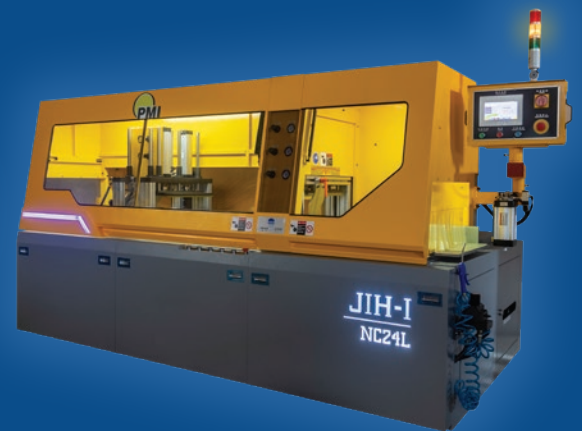




ALUMINUM AND NON-FERROUS CIRCULAR SAWS



PAT MOONEY SAWS
CUSTOMIZED SOLUTIONS

*TRUST THE SHARPEST MINDS
IN METAL CUTTING*

PMI UPCUT SAWS

PMI Upcut Saws are designed to cut aluminum profiles and other non-ferrous materials quickly and accurately. These high speed circular saws will leave a burr free, mirror image finish on cut parts. The upcut design, fully enclosed saw blade chamber, and powerful saw motors ensure a productive and safe work environment.



PMI-18 FEATURES

- 7.5 HP saw motor
- Upcut design and fully enclosed saw blade chamber
- Precision-ground worktable with special surface coating
- Pneumatic clamping system with adjustable clamping pressure to prevent distortion of thin walled aluminum extrusions
- Saw blade feed controlled via air / hydraulic
- Precise micro-drip blade lubrication system
- Vertical and horizontal clamps



PMI-24 FEATURES

- 10 HP saw motor
- Upcut design and fully enclosed saw blade chamber
- Precision-ground worktable with special surface coating
- Hydraulic clamping system with adjustable clamping pressure to prevent distortion of thin walled aluminum extrusions
- Saw blade feed controlled via air / hydraulic
- Precise micro-drip blade lubrication system
- Vertical and horizontal clamps



PMI-30 FEATURES

- 20 HP saw motor
- Upcut design and fully enclosed saw blade chamber
- Precision-ground worktable with special surface coating
- Hydraulic clamping system with adjustable clamping pressure to prevent distortion of thin walled aluminum extrusions
- Saw blade feed fully hydraulic
- Precise micro-drip blade lubrication system
- Vertical and horizontal clamps

Model	Cutting Capacity Round	Cutting Capacity Max. Width	Blade Dimensions	Saw Motor Power	Blade Speed	Machine Weight
PMI-18	4.33"	11.81"	Ø18"	7.5 HP	3200 RPM	770 lbs
PMI-24	7.873"	15.875"	Ø24"	10 HP	2000 RPM	1210 lbs
PMI-30	9.45"	22.83"	Ø30"	20 HP	1500 RPM	2552 lbs
PMI-36	11.81"	21.653"	Ø36"	20 HP	900 RPM	3150 lbs

PMI MITER UPCUT SAWS

PMI Miter Upcut Saws are designed to cut aluminum profiles and other non-ferrous materials quickly and accurately. These high speed circular saws leave a burr free, mirror image finish on all cut parts. The upcut design, fully enclosed saw blade chamber, and powerful saw motors ensure a productive and safe work environment.



PMI-20 FEATURES

- 7.5 HP saw motor
- Upcut design and fully enclosed saw blade chamber
- Precision-ground worktable with special surface coating
- Pneumatic clamping system with adjustable clamping pressure to prevent distortion of thin walled aluminum extrusions
- Saw blade feed controlled via air / hydraulic
- Precise micro-drip blade lubrication system
- Vertical and horizontal clamps
- Miter capability $\pm 45^\circ$



PMI-20 24 FEATURES

- 7.5 HP saw motor
- Upcut design and fully enclosed saw blade chamber
- Precision-ground worktable with special surface coating
- Pneumatic clamping system with adjustable clamping pressure to prevent distortion of thin walled aluminum extrusions
- Saw blade feed controlled via air / hydraulic
- Precise micro-drip blade lubrication system
- Vertical and horizontal clamps
- Miter capability $\pm 60^\circ$



PMI-20 30 FEATURES

- 10 HP saw motor
- Upcut design and fully enclosed saw blade chamber
- Precision-ground worktable with special surface coating
- Pneumatic clamping system with adjustable clamping pressure to prevent distortion of thin walled aluminum extrusions
- Saw blade feed fully hydraulic
- Precise micro-drip blade lubrication system
- Vertical and horizontal clamps
- Miter capability $\pm 60^\circ$

Model	Cutting Capacity Round	Cutting Capacity Max. Width	Blade Dimensions	Saw Motor Power	Blade Speed	Machine Weight
PMI-20	5.905"	13.188"	$\phi 20"$	7.5 HP	2800 RPM	1275 lbs
PMI-20 24	7.873"	14.6"	$\phi 24"$	7.5 HP	2000 RPM	2028 lbs
PMI-20 30	9.841"	18.11"	$\phi 30"$	10 HP	1500 RPM	2860 lbs
PMI-20 36	11.81"	20.87"	$\phi 36"$	10 HP	1200 RPM	3960 lbs

PMI AUTO MITER SERIES



PMI Auto Miter Series are fully automatic saws. These high speed circular saws have automatic saw head rotation and material indexing. Features include touchscreen control for easy job setup, servo motor driven pusher system (available in working lengths from 14-3/4' to 35', shorter or longer lengths are available by request) and saw head rotation, fully automatic saw cycle, and program storage.

	PMI-20 CNC Auto Miter	PMI-20 24 CNC Auto Miter	PMI-20 30 CNC Auto Miter	PMI-20 36 CNC Auto Miter
Auto Miter Rotation	± 45°	± 60°	± 60°	± 60°
Cutting Capacity	5.905" Round 5.905" Square 1/2" x 13-1/4" Rectangle	7.873" Round 7.873" Square 1/2" x 15-3/4" Rectangle	9.448" Round 9.448" Square 1/2" x 17-1/4" Rectangle	11.81" Round 11.41" Square 1/2" x 20.87" Rectangle
Blade Dimensions	ø20" x ø1"	ø24" x ø1"	ø30" x ø50mm	ø36" x ø50mm
Saw Blade Speed	3000 RPM	2000 RPM	1200 RPM	936 RPM
Saw Motor	7.5 HP	7.5 HP	10 HP	10 HP
Servo Motor Pusher	750 W	750 W	750 W	750 W
Servo Motor Rotation	750 W	750 W	750 W	750 W
Pusher Feed Speed	66 to 110 FPM	66 to 110 FPM	66 to 110 FPM	66 to 110 FPM
Pusher Drive System	Servo Driven Helical Gear Rack	Servo Driven Helical Gear Rack	Servo Driven Helical Gear Rack	Servo Driven Helical Gear Rack

PMI AUTO SERIES

Fully Automatic Upcut Saws – Straight Cutoff features include touchscreen control for easy job setup, servo driven pusher system (available in lengths from 14.75' to 35', shorter or longer lengths are available by request), automatic operation, and program storage.

	PMI-18 Auto	PMI-24 Auto	PMI-30 Auto	PMI-36 Auto
Cutting Capacity	4.33" Round 4.33" Square 1/2" x 11.81" Rectangle	7.873" Round 7.873" Square 1/2" x 15-3/4" Rectangle	9.45" Round 9.45" Square 2" x 22.83" Rectangle	12.6" Round 12.6" Square 1/2" x 20.87" Rectangle
Blade Dimensions	ø18" x ø1"	ø24" x ø1"	ø30" x ø50mm	ø36" x ø50mm
Saw Blade Speed	3500 RPM	2000 RPM	1200 RPM	936 RPM
Saw Motor	7.5 HP	10 HP	20 HP	20 HP
Servo Motor Pusher	750 W	750 W	750 W	750 W
Pusher Feed Speed	65 to 165 FPM	65 to 165 FPM	65 to 165 FPM	65 to 165 FPM
Pusher Drive System	Servo Driven Helical Gear Rack	Servo Driven Helical Gear Rack	Servo Driven Helical Gear Rack	Servo Driven Helical Gear Rack

PMI UPCUT AND NC SERIES CUT-TO-LENGTH SAWS

PMI Upcut and NC Series Cut-to-Length Saws are fully automatic saws. These high speed circular saws are built and designed for applications that require precision cut-to-length parts. The Upcut Series machines are ideal for sawing aluminum profiles and small solid bars. The NC Series machines are ideal for sawing aluminum profiles and large solid bars.

FEATURES

- Touchscreen control for easy job setup
- Simple set up to run stacked or bundle lengths of material
- Material Index System consists of an AC Servo Motor with Encoder, Servo Drive, Precision Ballscrew, and Gripper Vise (excluding PMI-18 DB-Type)
- Incremental material indexing for faster cycle times
- Standard with horizontal and vertical clamps on the shuttle vise and fixed saw vise (excluding PMI-18 DB-Type)



	PMI-18 DB-Type	PMI-455 A-Type	PMI-610 A-Type	PMI-NC24 L or LS-Type	PMI-NC30 L or LS-Type	PMI-NC36 L or LS-Type
Saw Head Type	Upcut	Upcut	Upcut	Crosscut	Crosscut	Crosscut
Max Height Cutting Capacity	4.33"	4.33"	7.5"	7.87"	10"	12.5"
Max Width Cutting Capacity	11.81"	11.81"	12.6"	15.75"	23.62"	23.62"
Material Feed System	Servo Controlled	Ball Screw with Servo Motor	Ball Screw with Servo Motor	Ball Screw with Servo Motor	Ball Screw with Servo Motor	Ball Screw with Servo Motor
Stroke Length	14"	28"	28"	39.36"	39.36"	39.36"
Saw Blade Speed	3200 RPM	3200 RPM	2000 RPM	1200 to 3600 RPM	1000 to 3000 RPM	900 to 1500 RPM
Saw Motor	7.5 HP	10 HP	10 HP	15 HP	20 HP	20 HP
Saw Blade Feed Control	Air over Hydraulic	Hydraulic	Hydraulic	Hydraulic or Servo	Hydraulic or Servo	Hydraulic or Servo
Saw Blade Size	ø18" x ø1"	ø18" x ø1"	ø24" x ø1"	ø12" to ø24" x ø1"	ø24" to ø30" x ø50mm	ø30" or ø36" x ø50mm
Machine Weight	1,200 lbs	3,080 lbs	3,520 lbs	6,237 lbs	6,820 lbs	8,000 lbs
Machine Dimensions	51" x 34" x 70"	99" x 52" x 80"	99" x 52" x 80"	146" x 78" x 74"	154" x 91" x 77"	161" x 96" x 84"

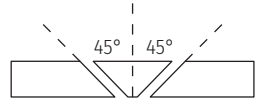
NOTCHING AND FRAMING SAW SERIES

Notching and Framing Saw Series includes semi-automatic high speed circular saws that are equipped with two saw heads that can be positioned to produce 45° framing and former notching cuts.



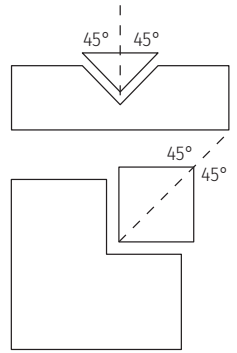
PMI-14 A AND B TYPE FEATURES

- Equipped with two saw heads, fixed at a 45° angle so in a single saw cycle two 45° cuts are produced
- Ideal saw for applications that require opposing 45° miter cuts
- The double saw blade design provides fast cut times to greatly increase efficiency
- Standard with vertical and horizontal clamps
- Standard equipment includes infeed and outfeed table with built in manual length stop



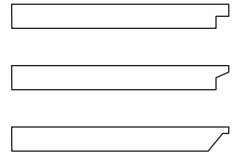
PMI-14 C TYPE FEATURES

- Ideal machine for notching applications
- The two saw heads feed vertically on precision ground shafts
- Saw blades are staggered and positioned at 45° to reduce waste
- Large cutting capacity -8" maximum height
- Adjustable saw blade stroke for faster cycle times
- Standard with horizontal and vertical clamps



PMI-LJK500 FEATURES

- Equipped with two saw heads that move ±45° which allows for various types of notch cuts
- The two saw heads can work simultaneously to achieve the processing of special angles at the end of the profile surface
- This machine was specifically designed with the aluminum curtain-wall and skylight processing industries in mind
- Equipped with digital read out to display the cutting angle and worktable height



	Cutting Angle	Cutting Capacity	Blade Dimensions	Saw Motor Power	Blade Speed	Machine Weight
PMI-14 A	45°	4" x 4" 3-1/4" x 4-3/4" 2-3/8" x 7"	ø14" x ø1" x 2 pcs	2 HP x 2	3200 RPM	682 lbs
PMI-14 B	45°	5-1/8" x 6" 4" x 7" 2-3/4" x 10"	ø18" x ø1" x 2 pcs	2 HP x 2	3200 RPM	1100 lbs
PMI-14 C	45°	5-1/8" x 5-1/8" (8" maximum height)	ø14" x ø1" x 2 pcs	2 HP x 2	3200 RPM	770 lbs
PMI-LJK500	±45°	6" x 6" (7-3/4" x 6" optional)	26" x 1" (vertical) 20" x 1" (horizontal)	3 HP x 2	2800 RPM	3300 lbs

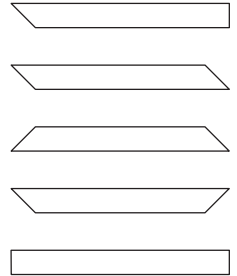
DOUBLE HEAD AND COMPOUND MITER SAWS

PMI high speed circular saws are designed to cut aluminum extrusions and profiles. The double-head saws are equipped with two saw heads. One can be positioned to a programmed cut length dimension. The compound miter saw heads will rotate and tilt.



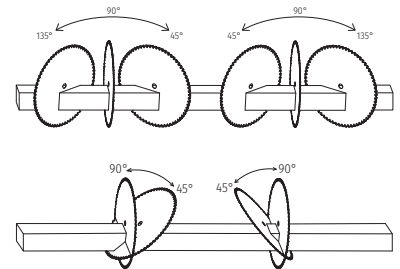
PMI-T3 FEATURES

- Large, Color HMI Touchscreen
- Automatic length and angle positioning
- Tilt -22.5° and $+45^\circ$
- Tilt position controlled by Servo Motors with Encoders and Servo Drives
- Saw head slides on linear guideways using a Servo Motor with Encoder, Servo Drive, and Helical gear rack to ensure accurate movements



PMI-T5 FEATURES

- Easy-to-use touch screen control
- Automatic cut length positioning
- Rotation $\pm 67.5^\circ$; tilt $\pm 45^\circ$
- Rotation and tilt position controlled by Servo Motors with Encoders and Servo Drive
- Saw head slides on linear guideways using a Servo Motor with Encoder, Servo Drive, and Helical gear rack to ensure accurate movements



PMI-T5S FEATURES

- Upcut Saw Head Design
- Available as a semi-automatic and fully automatic
- Single head saw designed for cutting compound miters
- Rotation -67.5° and $+45^\circ$; tilt $+45^\circ$
- Rotation and tilt position controlled by Servo Motors with Encoders and Servo Drive

	PMI-T3	PMI-T5	PMI-T5S
Rotary Servo Motor	N/A	1 kW	1 kW
Tilt Servo Motor	1 kW	750 W	750 W
Cut Length Positioning	1 kW	1 kW	1 kW
Pusher Servo Motor	N/A	N/A	750 W (on fully automatic)
Tilt Angle (both saw heads)	$+45^\circ$ and -67.5°	45° (inward on each saw head)	$+45^\circ$ (only one direction)
Rotary Angle (both saw heads)	N/A	$\pm 67.5^\circ$	-67.5° and $+45^\circ$
Saw Motor	5 HP x 2	7.5 HP x 2	7.5 HP
Blade Dimensions	$\phi 22''$ or $\phi 20'' \times \phi 1''$	$\phi 24''$ or $\phi 26'' \times 1''$	$\phi 24''$ or $\phi 26'' \times \phi 1''$
Saw Blade Speed	2800 RPM	1800 RPM	1800 RPM
Available Working Lengths	14.75' or 21.32'	14.75' or 21.32'	14.75' to 35' Pusher (on fully automatic)
Machine Weight	5,170 lbs (14.75') or 6,701 lbs (21.32')	8,580 lbs (14.75') or 9,680 lbs (21.32')	2156 lbs

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www.PatMooneySaws.com

sales@patmooneysaws.com

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