



PAT MOONEY, INC.

16 W. Official Road, Addison, Illinois 60101
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www.patmooneysaws.com



PMI-20 Automatic Miter with Auto Pusher System PMI PRECISION UPCUT SAW FOR ALUMINUM EXTRUSIONS AND PROFILES

The PMI-20 Automatic Miter with auto pusher system is a fully automatic saw. The operator enters in the desired angle(s), number of pieces and cut length(s) onto the touch screen control, pushes the cycle start button and walks-away as the saw makes the desired cuts. The saw is available with an automatic pusher system with lengths from 8ft to 21.5ft. The feed length and miter angle are driven via a servomotor for precise and accurate operation. The touch screen control is user friendly and easy-to-use.

The PMI Auto Miter Series Saws come standard with our **ZERO Waste Function.** The Zero Waste Function allows for zero scrap when sawing angles on symmetrical profiles.

Machine Features:

Automatic Miter Capability:

The PMI-20 with automatic miter function automatically positions your angle cuts from 0 to 45 degrees to the left and right. The miter is servo driven for precision accuracy.

HMI Touch Screen:

The touch screen is easy to use and operator friendly, is 5.7" large and easy to read. The cut length(s), angle(s) and number of pieces to cut are entered in the touch screen control when setting up a new program.

NC Control:

The NC control is capable of storing up to 100 different cutoff programs.

Material Feed System:

The material feed system is an automatic pushing system that is servo driven. The pusher system is capable of pushing up to 110pounds. The pusher system is mounted on a rigid conveyor table. The pusher's positioning speeds range from 65 FPM to 165 FPM.

7.5 HP Saw Motor:

The strong drive system via a 7.5 HP saw motor allows for maximum cutting force and chip removal. This additional power will extend the life of the saw blade between regrinds.

Upcut Design and Saw Blade Chamber:

The PMI-20 is an Upcut saw. The saw blade is housed under the work table and travels up through the work piece. This has several advantages such as safety (less blade exposed during cut), chip removal and longer blade life.

Precision Ground Work Table with Special Surface Coating:

The work table is a ground surface and is coated with a special Chromate coating which prevents marring the outside of your work piece.

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**Material Clamping:**

The pneumatic clamping system has adjustable clamping pressure to prevent distortion of thin wall profiles. The saw comes standard with vertical and horizontal clamps. The top clamp holds the work piece on both sides of the saw blade to deliver a burr free cutoff part. The clamping system is controlled via its own cylinder and has adjustment according to the size of the work piece. The System also incorporates a clamp on the table to ensure your part stays up against the backfence of the saw when the saw head is mitering.

Saw Blade Feed:

The saw blade feed is controlled via a pneumatic cylinder with full control of the feed rate. This allows for accurate cuts and long blade life. In addition, the saw blade travel is controlled for fastest cycle time.

Precise Micro-Drip Blade Lubrication System:

The blade is lubricated via a micro-drip system. A small amount of lubricant is introduced to an air line at the point of discharge for control and economical distribution of the saw lubricant.

Safety Features:**Safety Machine Enclosure:**

The work table is guarded via a machine enclosure that is monitored via a limit switch. The cover must be closed for the saw to cycle.

Two Hand Cycle Start Activation:

Dual start push button insures the operator has both hands free of the machine.

Safety Limit Switch:

Blade access door is protected via a limit switch that shuts down the machine in the case of an open door.

Technical Data:

Automatic Cutting Angle	45 degrees to the left and right
Saw Blade Size	20" x 1" bore
Spindle Speed	3000RPM
Saw Motor	7.5HP
Servomotor (miter and feed system)	400w (2)
Automatic Feed Length	8ft to 21.5ft
Program Storage	100
Maximum Pushing Weight	110LBS
Pusher Positioning Speed	65 FPM to 165 FPM
Work Table Height	34-1/2"
Saw Dimensions	48" x 52" x 72"
Saw Weight	1400LBS



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Additional Standard Items included with purchase of the PMI-20:

- Tool Kit
- Kanefusa 120T Saw Blade
- Operating Manual

Cutting Capacity

Round-90 Degree	5.905"
Round-45 Degree	5.511"
Square-90 Degree	5.905"
Square-45 Degree	5.511"
Rec a x b-90 Degree	5.511 x 7.874"
Rec a x b-90 Degree	5.905 x 4.724"
Rec a x b-90 Degree	.393 x 13.188"
Rec a x b-45 Degree	5.905 x 3.543"
Rec a x b-45 Degree	5.511 x 5.118"
Rec a x b-45 Degree	.393 x 9.448"