



PAT MOONEY, INC.

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PMI-20 30 CNC Auto Miter PMI PRECISION UPCUT SAW FOR ALUMINUM PROFILES

The PMI-20 30 CNC Auto Miter is a fully automatic saw with powered, servo-controlled saw head rotation and automatic material indexing. The operator enters in the desired angle(s), number of pieces and cut length(s) into the touch screen control, pushes the cycle start button and walks-away as the saw makes the desired cuts. The automatic pusher system is available in working lengths 8.2ft to 21.5ft. Feed length and miter angle are driven via a servomotor for precise and accurate operation. The touch screen 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:

Miter Capability:

The PMI-20 30 type with automatic miter function positions your angle cuts from 0 to 60 degrees to the left and right. The miter is servo driven for precision accuracy.

HMI Touch Screen:

The touch screen is user friendly, 7" large and easy to read. The cut length(s), angle(s) and number of pieces to be cut are entered onto the screen when setting up a new program.

NC Control:

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

Material Feed System:

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

10 HP Saw Motor:

The strong drive system via a 10 HP saw motor allows for maximum cutting force and chip removal. This additional power extends the life of the saw blade between regrinds.

Upcut Design and Saw Blade Chamber:

The PMI-20 30 Type 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:



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

Material Clamping:

The pneumatic clamping system has adjustable clamping pressure to prevent distortion of thin wall profiles. The top clamp holds the work piece on both sides of the saw blade to deliver a burr free cutoff part. This clamp is controlled by its own cylinder and has adjustment according to the size of the work piece. Clamping Speed is also adjustable.

Saw Blade Feed:

The saw blade feed is controlled via a Hydraulic Cylinder with full control of the feed rate. This allows accurate cuts and long blade life. The hydraulic cutting allows the machine to cut solid material with precision. 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 by 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: The 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	60 degrees to the left and right
Saw Blade Size	30" x 50mm Bore
Spindle Speed	1500RPM
Saw Motor	10HP
Servomotor (miter and feed system)	400w (2)
Automatic Feed Length	8.2 to 21.5ft
Program Storage	100
Maximum Pushing Weight	200 LBS
Pusher Positioning Speed	65 FPM to 165 FPM
Work Table Height	42"
Saw Dimensions	66" x 55" x 87"
Saw Weight	3,100 LBS



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Additional Standard Items included with the PMI-20 30 CNC Auto Miter:

- Tool Kit
- Kanefusa 120T Saw Blade
- Operating Manual
- 10ft Solid Top Outfeed Conveyor with Plastic Rollers

