



PAT MOONEY, INC.

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PMI-610 A-Type NC Automatic High Production Upcut Saw

The PMI-610 A-Type CE NC Automatic High Production Cutoff Saw is designed for sawing Aluminum Extrusion and Other non-ferrous metals. The saw's powerful 10 HP saw motor allows it to cut quickly and accurately. The ballscrew/servo controlled material indexing vise ensures accurate cut lengths.

Machine Highlights:

- **Ball screw/servo controlled material indexing vise**
- **Mitsubishi NC Controls**
- **10 HP Saw Motor**
- **Ability to Bundle Cut**

Machine Features:

Saw Blade Feed:

The saw blade feed is driven by a hydraulic system for maximum stability of the saw blade during the sawing operation. This is especially important when cutting solid or heavy walled extrusions/tubes. The saw blade feed is an upcut design so the saw blade travels from under the work table and through the bottom of the material. The feed rate is adjustable.

10 HP Saw Motor:

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

Saw Blade Speed

The saw blade speed is 1,800RPM. Inverter controlled variable speed is available as an option.

NC Control:

The PMI-610 A-type CE is equipped with Mitsubishi NC controls. The NC cutting control manages your cutoff program; simply input via the touch screen, your desired cut length, number of pieces, etc. and the machine monitors cutoff jobs for accuracy. The machine can store 100 programs and each program can have 12 steps.



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Material Index System:

The material is indexed to the cut length via a pneumatic gripper vise. The material index system consists of a Servo motor and encoder, a Mitsubishi Servo Drive, Precision Ball Screw and gripper vise. The carriage vise is equipped with two horizontal and vertical clamps. This setup allows for high accuracy. The four point clamping system enables the saw to handle irregular shaped stock material without additional fixtures. The saw is capable of reciprocating and stepping feed. The maximum single stroke length is 20 inches and the saw can do an infinite number of strokes for cut lengths longer than 20 inches.

Clamping System:

The pneumatic clamping system has adjustable clamping pressure to prevent distortion of thin wall profiles. As a standard feature, the saw has vertical and horizontal clamps. The carriage vise has two vertical and horizontal clamps, so it is capable of clamping irregular shaped pieces of material. The fixed vise has two vertical and one horizontal clamp to ensure the part is clamped securely during the cutting operation. The clamps can be adjusted based on the size of the material. With its extensive clamping system, PMI-610 A-Type is able to cut **multiple pieces** at one 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 airline at the point of discharge for control and economical distribution of the saw lubricant.

Safety Machine Enclosure:

The PMI-610 A-type CE is guarded via a machine enclosure that is monitored by limit switches. The machine cover must be closed for the saw to cycle. The machine's upcut design is built so the saw blade is completely enclosed underneath the work table and has limited exposure during the cut to allow for operator safety.

Safety Limit Switch:

The saw blade access door is protected via a limit switch that will shut down the machine in case the door is opened while the saw is in operation. The saw blade will NOT cycle with this door open.



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Technical Specifications:

Maximum Cutting Capacity	7-3/8 x 7-3/8 Inch
	2 x 12-1/2 Inch
	1-1/2 x 16-1/2 Inch
Material Feed System	Ball Screw with Servo Motor
Servo Motor	1 Kw
Stroke Length	20"
Saw Blade Speed	1,800 RPM
Saw Motor	10HP
Hydraulic Motor	1 HP
Saw Blade Sizes	24 Inch x 1 Inch Bore
Saw Table Height	36.26 Inches
Machine Dimensions	98.5 x 52 x 80 Inches
Machine Weight	3,520 LBS

Additional Standard items included with purchase of PMI-610 A-Type CE:

- **Chip Collector (3HP)**
- **13' Infeed Roller Table**
- **120T Saw Blade**
- **Operators Manual**
- **Tool Kit**