



PAT MOONEY, INC.

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PMI-18 BD-Type CE NC Automatic Production Cutoff Saw

The PMI-18 BD-type NC Automatic High Production Cutoff Saw is designed for sawing Aluminum Extrusion and Other non-ferrous metals. The saw's powerful 7.5 HP saw motor allows it to cut quickly and accurately. The gripper vise is ball screw with servo motor driven so the saw's indexing system is designed for accurate cut lengths. The 5.7" touch screen control allows for easy job setup.

Machine Features:

Saw Blade Feed:

The saw blade feed is driven by an air over hydraulic system that allows for an adjustable feed rate and stability during the cut. 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.

7.5 HP Saw Motor:

The powerful 7.5 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 3200RPM.

NC Control:

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 will monitor cutoff jobs for accuracy.

Material Index System

The material is indexed to the cut length via a gripper vise which consists of a servo motor and encoder, servo drive, precision ball screw and gripper vise. This setup allows for very high accuracy. PMI-18 DB is capable of reciprocating and stepping feed. The maximum single stroke length is 14". For cut lengths over 14", the saw will do multiple indexes.

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.

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.



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Safety Machine Enclosure:

The PMI-18 BD-Type 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.

Technical Specifications:

Maximum Cutting Capacity	5" x 5"
	4" x 8"
	¾" x 11"
Material Feed System	Ball Screw with Servo Motor
Servo Motor	500w
Stroke Length	14"
Saw Blade Speed	3200 RPM
Saw Motor	7.5 HP
Saw Blade Sizes	18" x 1" bore
Machine Dimensions	51" x 34" x 70"
Machine Weight	1,200 Lbs.

Additional Standard items included with purchase of PMI-18 BD-Type CE:

- 120T Saw Blade
- Operators Manual
- Tool Kit