



PAT MOONEY, INC.

16 W. Official Road, Addison, Illinois 60101
Telephone 630/543-6222 • 800/323-7503 • Fax 630/543-5584

www.patmooneysaws.com



PMI-Auto 18DS Auto Saw System with (Drill+Saw) PMI PRECISION UPCUT SAW FOR ALUMINUM PROFILES

The PMI Precision Cutoff Saws are designed to saw aluminum profiles quickly and accurately with a burr free mirror finish. The PMI-Auto 18 DS has a built in automatic pusher system with a drilling operation so it can drill, and cut parts to length. The saw is programmed via its touchscreen control.

Machine Features:

7.5 HP Saw Motor:

The strong drive system via 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.

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), drill/tap distance 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.

Upcut Design and Saw Blade Chamber:

The PMI-18CD 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.

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. The clamp is controlled by its own cylinder and has adjustment according to the size of the work piece.



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Drill Head:

The machine is equipped with a drill head. The power of the spindle is 1 HP. The drilling spindle speed is 2000 RPM. The pusher system positions to the center point of the drill and tap operation on the x-axis. This length is programed via the touch screen control. The X and Y-axis position of the both the drilling head is servo controlled so the operator is able to adjust the position via the touchscreen control.

Saw Blade Feed:

The saw blade feed is controlled via a pneumatic cylinder with full control of the feed rate. This will allow 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 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.

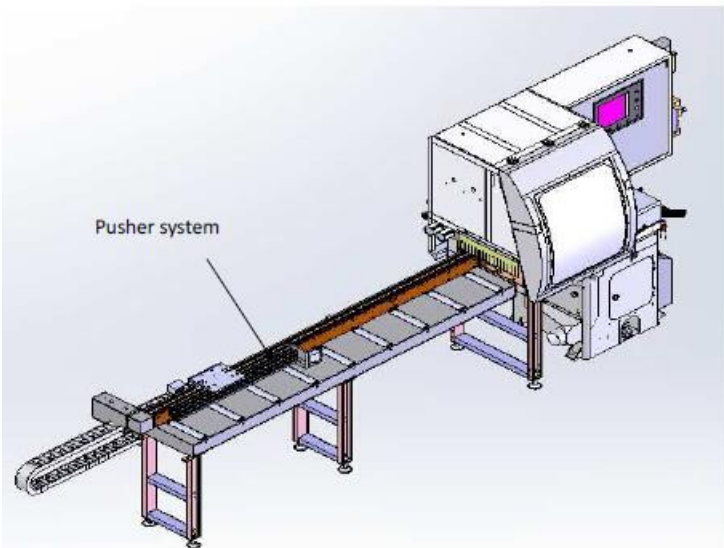
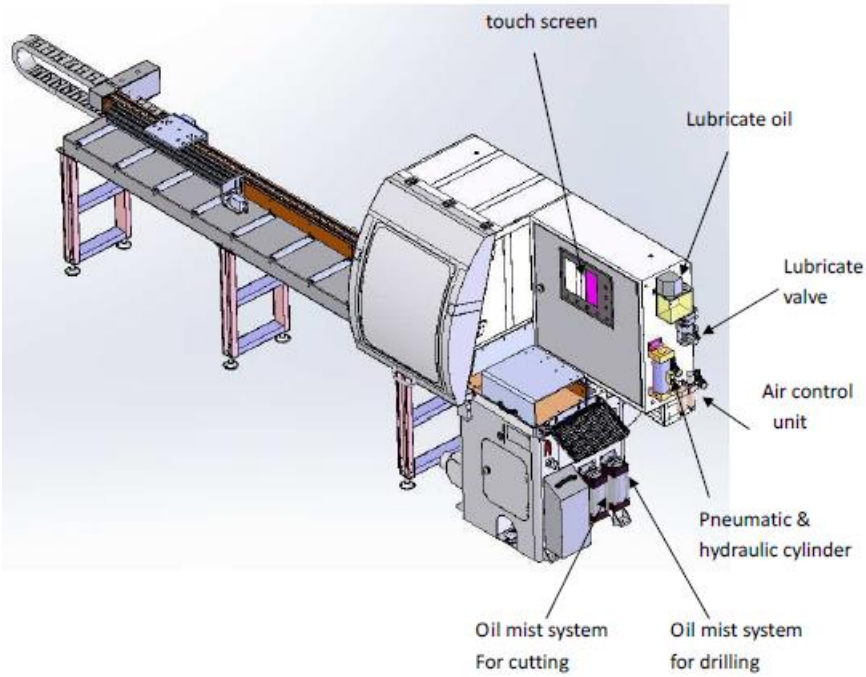
Safety Limit Switch: The blade access door is protected via a limit switch that shuts down the machine in case of an open door.



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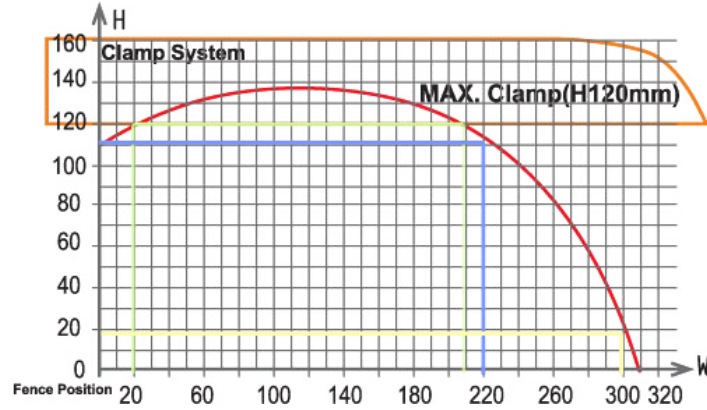
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Cut Chart:



Technical Data:

Saw Blade Size	18" x 1" bore
Spindle Speed	3500RPM
Saw Motor	7.5HP
Servomotor (feed system)	400w
Automatic Feed Length	21.5ft
Program Storage	100
Maximum Pushing Weight	110LBS
Pusher Positioning Speed	65 FPM to 165 FPM
Drill Spindle Power	1 HP
Drill Spindle Speed	2000 RPM
Maximum Hole Diameter	10mm (0.393 inches)
Tapping Spindle Power	1 HP
Work Table Height	34-1/2"
Saw Dimensions	48" x 52" x 72"
Saw Weight	1500LBS

Items included with the saw system:

- Operators Manual
- 1 Blade Included
- Tool Box Included



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