



## **PAT MOONEY, INC.**

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## **PMI-18 CNC Automatic Saw System 21.5ft Pusher System PMI PRECISION UPCUT SAW FOR ALUMINUM PROFILES**

The PMI-18 CNC Automatic Saw System has a built-in auto pusher system for fully automatic operation. The operator enters the 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 has a working length of 21.5 ft. The feed length and is driven via a servomotor for precise and accurate operation. The touch screen control is user friendly and easy-to-use.

### **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 very easy to use and operator friendly. The screen is 7" and easy to read. The cut length(s) and number of pieces to be cut are entered onto 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 110lbs. The pusher system is mounted on a rigid conveyor table and 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:



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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.

**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.

**Technical Data:**

|                                      |                   |
|--------------------------------------|-------------------|
| Saw Blade Size                       | 18" x 1" bore     |
| Spindle Speed                        | 3500RPM           |
| Saw Motor                            | 7.5 HP            |
| Servomotor (feed system)             | 400w (1)          |
| Automatic Feed Length                | 21.5ft            |
| Program Storage                      | 100               |
| Maximum Pushing Weight               | 110LBS            |
| Pusher Positioning Speed             | 65 FPM to 165 FPM |
| Work Table Height                    | 33-7/8"           |
| Saw Dimensions                       | 34" x 35" x 66"   |
| Saw Weight (does not include pusher) | 770 LBS           |

**Additional Standard Items included with the PMI-18 CNC Automatic Saw System:**

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