



**PAT MOONEY, INC.**

16 W. Official Road, Addison, Illinois 60101  
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[www.patmooneysaws.com](http://www.patmooneysaws.com)



## **PMI-T1 CNC Fully Automatic Plate Saw**

The PMI-T1 CNC Fully Automatic Plate Saw is built and designed to saw aluminum plates. Its powerful 46 HP saw motor allows it to quickly process plates. The precision double gear rack/servo controlled material indexing system ensures plates are positioned accurately.



### **Machine highlights:**

- **46 HP Saw Motor**
- **12 ft x 12 ft Plate Capacity**
- **Precision Double Gear Rack/Servo Material Indexing System**
- **Cutting Depth Ballscrew Controlled**
- **Cutting Feed Rate is Servo Controlled – Programmable**

### 46 HP Saw Motor:

This strong drive system via 46 HP saw motor allows for maximum cutting force and chip removal. The additional power extends the life of the saw blade between regrinds. The saw blade speed is 1000 to 2800 RPM.



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### Saw Head:

The Saw Head is mounted on large, precision linear guideways.

### Saw Carriage Drive Motor:

It is driven by a servo motor so the saw operator has precise control over the feed rate. The carriage moves on a gear rack. The retract speed of the saw head is 197 FPM. When the saw completes a cut, the carriage moves down on a ballscrew so it can retract to its home position.

### Material Clamping:

The machine is equipped with hydraulic clamping to ensure the aluminum plates are properly secured throughout the cutting process. The height of the vertical clamps that cover the entire cutting area are adjusted on ballscrews.

### Material Feed System:

The machine's automatic material feed system is controlled by a double gear rack and servo; so each of the outside supports on the feeder had a gear rack and servo system. This system ensures that the plate is indexed accurately. The plates are secured to the feed system using 12 hydraulic 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 air line at the point of discharge for control and economical distribution of the saw lubricant.

## **Safety Features:**

### Safety Guard Enclosure:

The machine has a comprehensive safety guard to ensure safety when the saw is in operation. The machine will shut down if the saw operator's hand is in an unsafe place and the machine is in the process of making a cut.

### Piano-Key Type Dust Guard:

The Piano Key Guard is a sectional guard that completely surrounds the saw blade when it is cutting through the material. The dust guard also helps contain chips.

### Safety Limit Switch:

The Blade access door and other access points are protected via limit switch that will shut down the machine in the case of an open door.



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### **Technical Data:**

- Main Saw Blade Size 16" to 26"
- Saw Motor 46 HP
- Max. Cutting Width 12 ft
- Max Feed Length 12 ft
- Max. Cutting Depth 8"
- Main Saw Blade Speed 1500 to 3500 RPM
- Saw Carriage Feed Rates Variable (servo controlled)
- Saw Carriage Retract Speed 197 FPM
- Weight Capacity of Feeder 4410 lbs

### **Standard Equipment Included with Saw:**

- 12 Hydraulic Clamps for Feed System
- 5ft Outfeed Table – 4 sets
- 26" Diameter Saw Blade
- Tool Box with tool kit