



## **PAT MOONEY, INC.**

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# **PMI-T5S – Semi-Automatic Compound Miter Saw PMI PRECISION UPCUT SAW FOR ALUMINUM EXTRUSIONS AND PROFILES**

The PMI-T5S is a semi-automatic saw capable of compound mitering. The sawhead is positioned for angle cuts via a servo to ensure precise movements. The automatic compound miter function automatically positions the saw head for angle cuts from +/-67.5 degrees in the rotary (left and right) and from 0 to 45 degrees (tilt, one direction).

## **Machine Features:**

### Automatic Compound Miter Capability:

The PMI-T5S automatically positions the sawhead for rotary and tilt angle cuts (compound miters). The saw head is capable of rotating 67.5degrees to the left and right. It will tilt 45 degrees to the right. The miter is servo driven for precision accuracy.

### HMI Touch Screen:

The touch screen is user friendly. The screen is 5.7” and easy to read. The angle(s) are entered onto the touch screen control when setting up the cut.

### 7.5 HP Saw Motor:

The strong drive system via a 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.

### Upcut Design and Saw Blade Chamber:

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:

Pneumatic clamping system has adjustable clamping pressure to prevent distortion of thin wall profiles. The saw comes standard with vertical and horizontal clamps. The top clamp holds the work piece on both sides of the saw blade to deliver a burr free cutoff part. The clamping system is controlled by its own cylinder and is adjustable according to the size of the work piece. The system also incorporates a clamp on the table to ensure your part stays up against the backfence of the saw when the saw head is mitering.



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**Saw Blade Feed:**

The saw blade feed is controlled via a pneumatic cylinder with full control of the feed rate. This allows 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:**

Rotary Miter	67.5 degrees to the left and right
Tilt Miter	45 degrees to the right
Saw Blade Size	24" x 1" bore
Spindle Speed	2000 RPM
Saw Motor	7.5 HP
Servomotor Work table rotation	200w
Servomotor Sawhead Tilt	60w
Work Table Height	34-1/2"
Saw Dimensions	81"L x 71"W x 70" H
Saw Weight	2,310 lbs.

**Additional Standard Items included with the purchase of the PMI-T5S:**

- Tool Kit
- Kanefusa 120T Saw Blade
- Operating Manual