



## **PAT MOONEY, INC.**

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

[www.patmooneysaws.com](http://www.patmooneysaws.com)



## **PMI-T5 Automatic Double-Sawhead Machine Compound Miter**

The PMI-T5 is an automatic double sawhead machine is designed to cut aluminum profiles and other non-ferrous materials. The machines two saw heads tilt and rotate so it is capable of completing compound miter cuts. The two saw heads can work simultaneously or independently. The upcut style saw heads are equipped with 24 inch diameter saw blades. All programming is completed on the machine's easy-to-use touchscreen control.





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## **Machine Features:**

### **Two Saw Head Design:**

The PMI-T5 is equipped with two saw heads. One of the saw heads is fixed and one is moveable, so it can be programmed to a cut length. The moveable saw head automatically positions to the programmed cut length and it moves on dual precision linear guideways to ensure accurate movements. The saw heads can work simultaneously or independently.

### **Saw Head Tilt:**

The fixed saw head will tilt 45 degrees to the right and the moveable saw head will tilt 45 degrees to the left. The tilt position is servo controlled on both saw heads. The operator simply enters the required tilt position for each head into the touchscreen control and they automatically move to the entered dimensions.

### **Saw Head Rotation:**

The fixed and moveable saw head will rotate 67.5 degrees to the left and right. The rotation position is servo controlled on both saw heads. The operator simply enters the rotation position for each head into the touchscreen control and they will automatically move to the entered dimensions.

### **Moveable Saw Head:**

The moveable saw head's position is servo controlled so it can be set to automatically move to a programmed cut length. The entire saw head moves on dual precision linear guideways. It is available in 177 inch (4.5m) and 255 inch (6.5m) working lengths. The moveable saw head can be used as a automatic indexing vise so material is being moved to a programmed cut length and cut on the fixed saw head.

### **Saw Motor:**

Each saw head is equipped with a 7.5 HP saw motor.

### **Feed Rate Control:**

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.

### **Material Clamping:**

The pneumatic clamping system has adjustable clamping pressure to prevent distortion of thin wall profiles. Each saw head is equipped with vertical and horizontal clamping on the infeed and outfeed sides of the saw blades.



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Precise Micro-Drip Blade Lubrication System:

The saw blades are 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.

Saw Blade Enclosure:

The saw blades are fully enclosed underneath the saw cabinets. All access doors are protected with safety switches.

**Technical Specifications:**

Servo Motor – Tilt Angle	1 kw (2)
Servo Motor – Rotation Angle	750w (2)
Servo Motor – Moveable Saw Head	1 kw (1)
Tilt Angle – Fixed Saw Head	45 degrees to right
Tilt Angle – Moveable Saw Head	45 degrees to left
Saw Head Rotation (both saw heads)	+/- 67.5 degrees
Saw Motor	7.5 HP (2)
Saw Blade Diameter	24”
Saw Blade Speed	1800 RPM
Working Lengths available	14.75ft or 21.32 ft (4.5m or 6.5m)
Dimensions	244” x 72” x 75” (length is 323” for 6.5m machine)
Machine Weight	14.75ft working length – 8,580 LBS 21.32 ft working length – 9,680 LBS

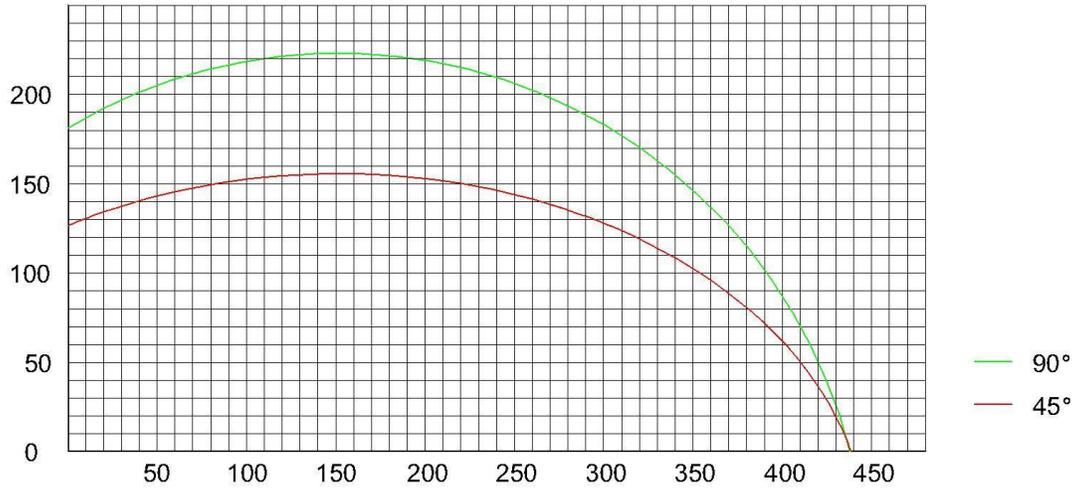
**Cut Charts:**



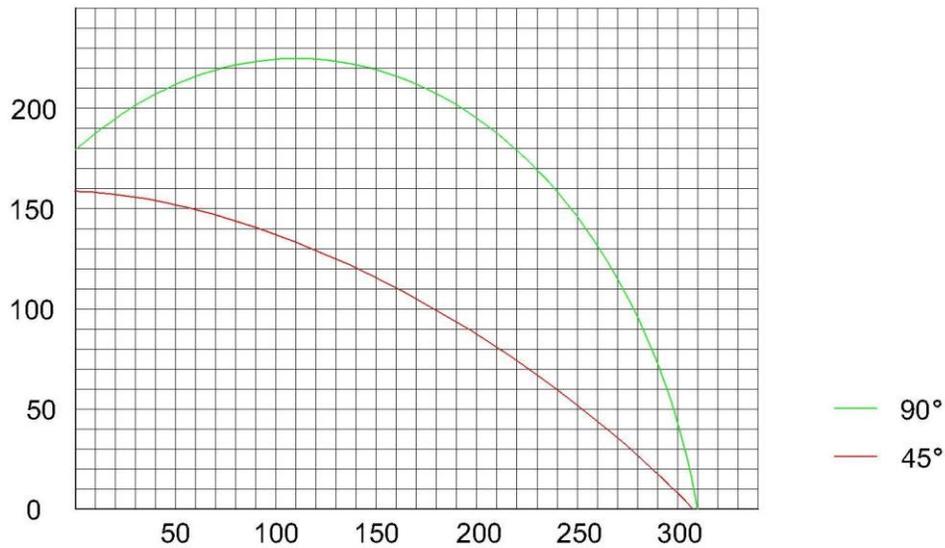
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**Cutting Chart with Saw Head Rotation at 90 degrees (straight cut)**



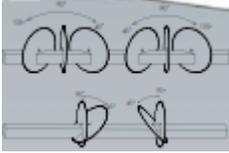
**Cutting chart with the Saw Head Rotation at 45 degrees**



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**Saw Head Movements**