



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-T3 CNC Automatic Double Head Miter Saw

The PMI-T3 is a two headed miter saw designed for cutting aluminum extrusions and profiles. The saw head tilts when it is positioned for a miter cut. The length and miter position are programmed into the HMI and set automatically by the machine. The two saw heads can work simultaneously or independently. The saw heads move horizontally through the material when making a saw cut.





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Machine Features:

Two Saw Head Design:

The PMI-T3 has two saw heads. One of the saw heads is fixed, the other saw head is moveable. The moveable saw head can be automatically positioned for different cut lengths. The moveable saw head travels on linear guide ways to ensure accurate positioning. The two saw heads can work simultaneously or independently. Each saw head is capable of mitering (tilting) 45 degrees to the right and 22.5 degrees to the left.

Saw Head Tilt

The Saw Head tilt is controlled by a servo motor for precision accuracy.

5 HP Saw Motor:

Each saw head is equipped with a 5HP saw motor.

Cross Cut Design and Saw Blade Chamber:

The PMI-T3 is a cross cut design so the saw blade on each saw head moves through the material horizontally (from the back to the front of the machine). Each Saw Head travels on linear guideways for precise movement. The saw blades are housed in safety enclosures so the saw blade is only exposed during the sawing operation. A connection port for a chip collector is on each saw blade housing to allow for easy chip evacuation.

Work Table and Support Rollers:

The saw tables are made of bakelite material and the two support rollers that are located in between the two saw heads are made of a plastic material. These surfaces prevent marring to occur on the outside of your work piece.

Material Clamping:

Pneumatic clamping system has adjustable clamping pressure to prevent distortion of thin wall profiles. The clamping system is controlled by its own cylinder and is adjustable according to the size of the work piece.

Saw Blade Feed:

The saw blade feed for each saw head 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.



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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.

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 Specifications:

Tilt Angle and Length Control	Servo Motor
Cutting Length Accuracy	+/-0.15mm (0.005")
Cutting Angle Accuracy	+/-0.15 degree
Tilt Angle – Fixed Saw Head	45 degrees to right and 67.5 degrees to left
Tilt Angle – Moveable Saw Head	45 degrees to the left and 67.5 degrees to the right
Saw Blade Speed	2,800 RPM
Saw Motor Power	5 HP (2)
Saw Blade Diameter	22"
Working Lengths available	4.5m or 6.5m (14.75ft or 21.32 ft)
Dimensions	5000mm or 8000mm x 1000mm x 1400mm
Machine Weight	1,800 kgs (3,960LBS)

Cutting Capacities

90 degree (straight cut)	170mm x 170mm (6.75" x 6.75")
90 degree (straight cut)	30mm x 330mm (1.18" x 13")
22.5 degree (67.5 degree)	90mm x 90mm (3.5" x 3.5")
45 degree (tilt left and right)	120mm x 170mm (4.75" x 6.75")
45 degree (tilt left and right)	30mm x 240mm (1.18" x 9.5")
90 degree Min Cut length	440mm (17.32")
45 degree Min Cut Length (tilt left)	540mm (21.25")
45 degree Min Cut Length (tilt right)	550mm (21.65")
22.5 degree Min Cut Length	440mm (17.32")



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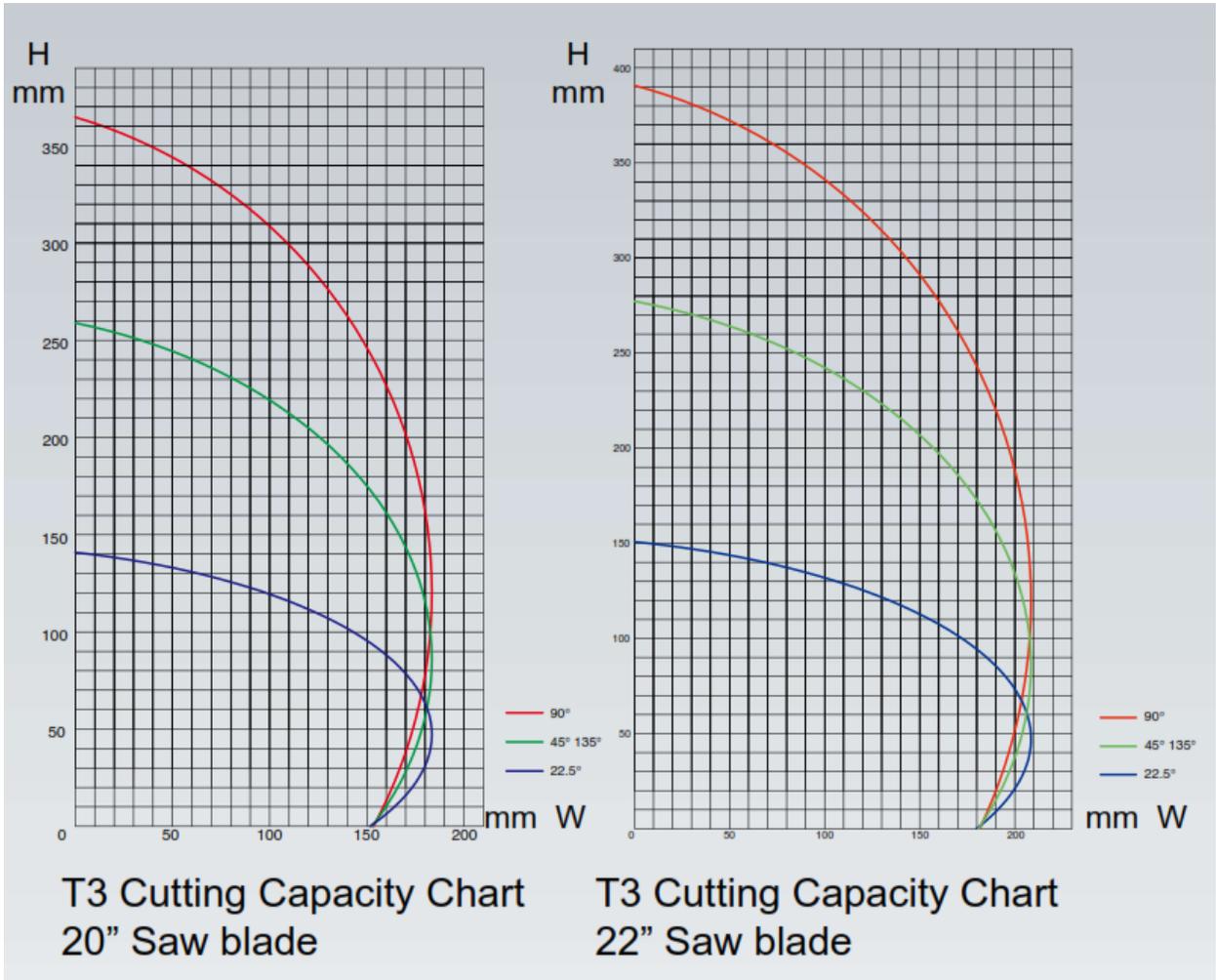
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Max Cutting Length	4500mm or 6500mm (11.5 ft or 21.32 ft)
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Cut Charts:





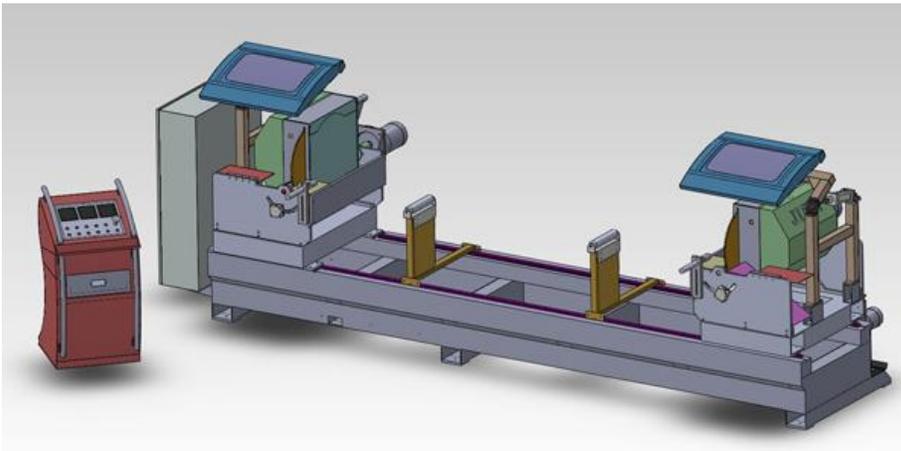
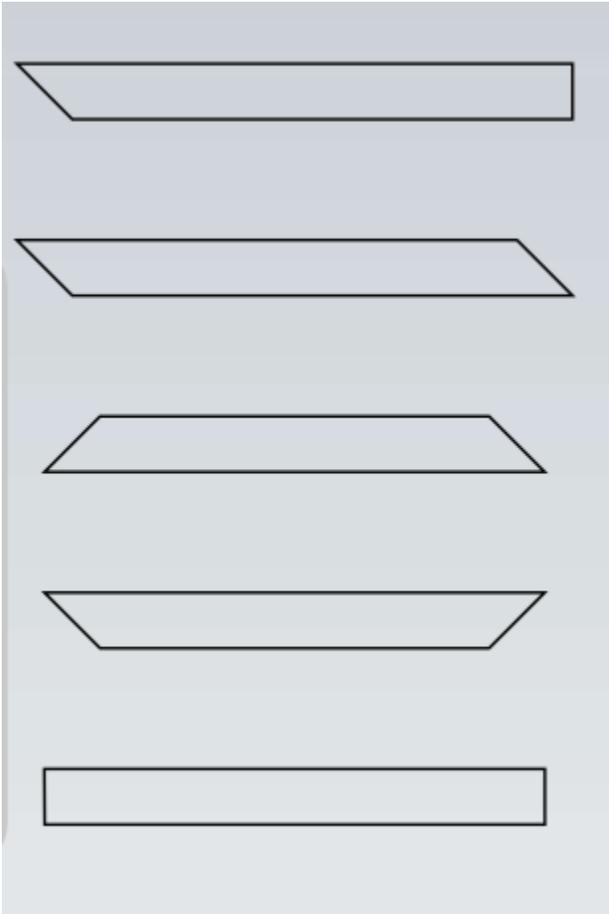
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Cut Types processed on PMI-T3 and machine pictures:





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