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 Panther BSS 360 AR
Fully Automatic Dual Miter Band Saw

Overview

The PMI Panther BSS 360 AR is a fully automatic dual miter band saw that is capable of mitering 60 degrees left and 45 degree right in the automatic cycle. When programming the machine, the operator enters the required cut length, quantities, and angle(s). In the automatic cycle, the powered saw head will rotate left and right for angle cuts.

Saw Head

The saw head is designed to absorb the vibrations created during the sawing procress. The machine is equipped with a fast approach so the head rapidly approaches the top of the material before slowing down to the programmed feed rate.

Rotation of the Saw Head

Rotation of the saw head is powered and FULLY Automatic. When programming the machine, the operator enters the required angles and the saw head automatically positions to the programmed dimensions. In the automatic cycle, the saw head will rotate 60 degrees to the left and 45 degrees to the right. The powered saw head is driven by a servo drive.

Saw Blade Tensioning

The blade is tensioned manually. The system has a gauge to ensure the proper tension is on the saw blade. If the saw blade looses tension while the machine is in operation, it will automatically shutdown.

Saw Blade Drive and Blade Speed Control

The machine is equipped with a gear driven saw motor. The gear driven saw motor ensures that torque is delivered to the saw cut. The saw blade speed is inverter controlled for infinitely variable speeds 52-396 FPM.

Saw Blade Feed System

The feed rate is fully hydraulic. The saw head is fed through the material by a hydraulic cylinder. The operator has full control of the cutting rate by adjusting the control valve on the control panel.

Touch Screen Control and Machine Programming

The machine has an easy-to-use keyboard control with a 7 inch color touchscreen. When programming the machine, the operator enters the required cut length(s), angle(s), and quantities. The control will hold up to 200 programs.

Fast Approach

The saw head is equipped with fast approach. The saw head to quickly approach the top of the material before moving at the programmed feed rate. This ensures cycle time is not wasted cutting air.

Blade Guide System
The saw blade is supported by roller and carbide guides which are wear resistant. The saw blade has reduced twist as it enters the guide putting less strain on the blade backing material.

Material Index System
Material is indexed to the cut length via hydraulic gripper vise. The gripper vise travels on dual rails that reduce friction. The length is indexed is controlled by an encoder. The shuttle vise is self-centering thus, even a bent bar can be fed without incident. The stroke of the shuttle is 51 inches.

Hydraulic Clamping System
The shuttle vise and fixed saw vise are fully hydraulic so the part is securely clamped. The fixed saw vise slides left and right so the saw head can automatically rotate left and right in the automatic cycle.

Chip Collection Pan
A large chip collection pan allows for chips to collect, as the coolant drains from the chips. The chip pan can be emptied of dry chips.

Blade Brush
The Blade Brush is driven via motor and gear box. This cleans the blade of chips and promotes long blade life.

Technical Data:

Cutting Capacity	**0 Degree**	**45 Degree (left)**	**45 Degree (right)**	**60 Degree (left)**
Round	10.25”	6.7”	9”	4.75”
Rectangle	4” x 9”			4-1/3” x 6”
Square	9” x 9”	6”	9” x 9”	

Blade Size	**Blade Speed**	**Saw Motor Power**	**Stroke**	**Table Height**	**Foot Print**	**Weight**
10’4” x 1” x 0.035	Inverter: 52 to 396 FPM	3 HP	51”	37”	123” x 87”	3,190 lbs.

Machine Pictures: