

marvel[®]

MANUFACTURING COMPANY, INC.

HORIZONTAL POST STYLE

PA260-EPC
PA360-EPC
PA460-HD
PA22-EPC
PA28-EPC
PA700-HD
PA4043-EPC

HORIZONTAL POST STYLE METAL CUTTING SAW



SPARTAN[®] SERIES

- TOUCH SCREEN CONTROL
- FULLY ADJUSTABLE HYDRAULIC DOWN FEED
- AUTOMATIC CHIP REMOVAL

EXPECT QUALITY, DEMAND PERFORMANCE

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POST STYLE SAWS

- **Speed Range:** 50-330 SFPM (15-101 m/min) infinitely variable through a frequency inverter system and heavy-duty worm gear transmission. The broad speed range allows for optimum cutting of a large spectrum of materials.
- **Blade Tension:** Hydraulically controlled tension (ranging from 30,000-40,000 PSI) provides consistent square cutting accuracy. The motion detector will shut the machine off, should the blade break or stall.
- **Motors:** Inverter blade drives that provide a range of 5-15 H.P., hydraulic pump motor ranging from 1-5 H.P. and a coolant pump motor ranging from 1/8-1/4 H.P.
- **Out-of-Stock Switch:** The machine will shut off automatically when material is no longer present in the rear vise jaws, allowing for truly automatic operation.
- **Fast Approach:** Work height is automatically set allowing the head to rise just enough to clear the work-piece, reducing cycle time and allowing for faster cutting performance.
- **Vibration Dampening System and Enhanced Coolant Control Systems:** Reduce noise level, blade fatigue and helps to extend blade life.
- **Combination Roller & Carbide Blade Guides:** Reduce heat and blade stress providing longer blade life and accuracies of +/- .002 per inch of cut material. Large anti-vibration rollers help to increase blade life.
- **Work Light:** Positioned directly over the work area to provide better illumination of the cutting area, the work light is controlled by a selector switch on the operator's control panel.



MACHINE & BAR FEED VISES

Hydraulic full stroke. The machine vise has split jaws to hold material on both sides of the blade minimizing burrs and vibration. The bar feed vise compensates for crooked stock and is designed to reduce remnant lengths to as little as 3 inches.

OPERATOR CONTROL PANEL

Conveniently located on the left hand side of the machine and includes all of the controls required for both manual and automatic operation.

EPC PROGRAMMABLE CONTROL

Conveniently located on the operator's control panel, this touch screen control allows the operator to program and store up to nine jobs. Inputs include **Part Lengths** from 0 to 400" and **Number of Pieces** to be cut.

The **Blade Speed** is displayed on and set using the touch screen, but is not stored in memory.

The **Automatic Piece Counter** stops each job when the pre-set number of cuts have been made. The control provides the option of running up to 9 jobs consecutively.



CHIP BRUSH

Powered from the main drive shaft of the saw, the brush changes speed along with the blade to assure that chips are being removed from each gullet of the blade, improving cutting performance.

AUTOMATIC CHIP REMOVAL

The chip auger rotating in the coolant return removes chips quickly and efficiently, freeing the operator to perform more productive operations. Coolant is allowed to drain back to the tank before the chips are removed from the machine.



*Pictures may include some optional equipment.

*Some safety equipment may have been removed or opened to illustrate products clearly and must be in place, and functioning, prior to operation.

PRODUCT SPECIFICATIONS



	PA260-EPC	PA360-EPC
Rectangular Capacity	12"x 10.25"	14"x 14"
Round Capacity	10.25"	14"
Blade Size	1.25"x .042"x 12'11"	1.25"x .042"x 14'6"
Blade Speed	65 - 220 SFPM	70 - 330 SFPM
Blade Tension	30,000 PSI	30,000 PSI
Blade Drive	5 H.P. (3kW)	5 H.P. (3.75kW)
Hydraulic Pump	1 H.P. (0.75kW)	2 H.P. (0.75kW)
Coolant Pump	1/8 H.P. (0.09kW)	1/8 H.P. (0.09kW)
Maximum Index Capacity	3,860 lbs	4,400 lbs

	PA460-HD	PA22-EPC	PA28-EPC
Rectangular Capacity	20"x 18"	22"x 24.5"	28"x 32"
Round Capacity	18"	22"	28"
Blade Size	1.5"x .050"x 17'11"	2"x .063"x 21'8"	2"x .063"x 26'3"
Blade Speed	70 - 330 SFPM	60 - 300 SFPM	50 - 250 SFPM
Blade Tension	34,000 PSI	40,000 PSI	40,000 PSI
Blade Drive	10 H.P. (7.5kW)	10 H.P. (11.25kW)	10 H.P. (11.25kW)
Hydraulic Pump	2 H.P. (1.5kW)	3 H.P. (2.25kW)	3 H.P. (2.25kW)
Coolant Pump	1/4 H.P. (0.18kW)	1/4 H.P. (.1875kW)	1/4 H.P. (.1875kW)
Maximum Index Capacity	8,000 lbs	17,600 lbs	30,000 lbs

	PA700-HD	PA4043-EPC
Rectangular Capacity	28" x 32"	39.4" x 43"
Round Capacity	28"	40"
Blade Size	2.625"x .060"x 27'4"	3"x .063"x 36'5"
Blade Speed	50 - 260 SFPM	50 - 245 SFPM
Blade Tension	40,000 PSI	40,000 PSI
Blade Drive	15 H.P. (11.25kW)	15 H.P. (11.25kW)
Hydraulic Pump	5 H.P. (3.7kW)	5 H.P. (3.7kW)
Coolant Pump	1/4 H.P. (0.1875kW)	1/4 H.P. (0.1875kW)
Maximum Index Capacity	30,000 lbs	40,000 lbs

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3501 Marvel Drive • Oshkosh, WI 54902 • USA
 Phone: 920.236.7200 • Fax: 920.236.7209 • Email: sales@marvelsaws.com

Visit us at: www.MarvelSaws.com

