

Marvel[®]

MANUFACTURING COMPANY, INC.

SCISSOR STYLE SAWS

PA10-3
PA10-3EPC
PA13-3EPC
PA18-3EPC

CONTROL
STATION

15
CAPACITY

HORIZONTAL SCISSOR STYLE METAL CUTTING SAW



- TOUCH SCREEN CONTROL
- SPEED RANGE: 70 - 330 SFPM
- FULLY ADJUSTABLE HYDRAULIC DOWN FEED
- AUTOMATIC CHIP REMOVAL

SPARTAN[®] SERIES

EXPECT QUALITY, DEMAND PERFORMANCE

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SCISSOR STYLE SAWS

- **Speed Range:** 70-330 SFPM (21-101m/min) variable through a frequency inverter drive and heavy-duty worm gear transmission.
- **Blade Tension:** Hydraulically controlled tension (30,000 psi) provides a consistent square cutting accuracy. The motion detector will shut the machine off should the blade break or stall.
- **Hydraulic Down Feed:** Feed rate and down pressure can be controlled independently for fast, accurate cutting.
- **Motors:** All Motors are dual voltage, 230 or 460 volts, 3 ph. 60 Hz. (208 volt conversion is available for an added charge.)
- **Out of Stock Switch:** The machine will shut off automatically when material is no longer present in the rear vise jaws.
- **Blade Guides:** The combination roller bearing and carbide blade guides reduce heat and blade stress providing longer blade life and accuracies of +/-0.002 per inch of cut material.
- **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.
- **Work Light:** Positioned directly over the work area to provide better illumination of the cutting area, the work light can be turned on and off independently from the operator's control panel.



WISE JAWS

Hydraulic Full Stroking. Front jaws are split to reduce the remnant to as little as 3". The split vise jaws also help to reduce burrs left on the material and are ideal for bundle cutting. Holding the work piece on both sides of the blade reduces blade vibration, providing more accurate cuts and longer blade life. Rear Vise: The rear vise jaw floats hydraulically to accommodate crooked stock assuring straight, accurate cuts.



OPERATOR CONTROL PANEL

Conveniently located on the left hand side of the machine and offers full control of all machine functions such as; vises, blade speed, saw frame, bundle clamping, parts counter, shuttle advance and retract, coolant and work light. (A stand alone operators control console is available as an option.)



SELF CLEANING SYSTEM

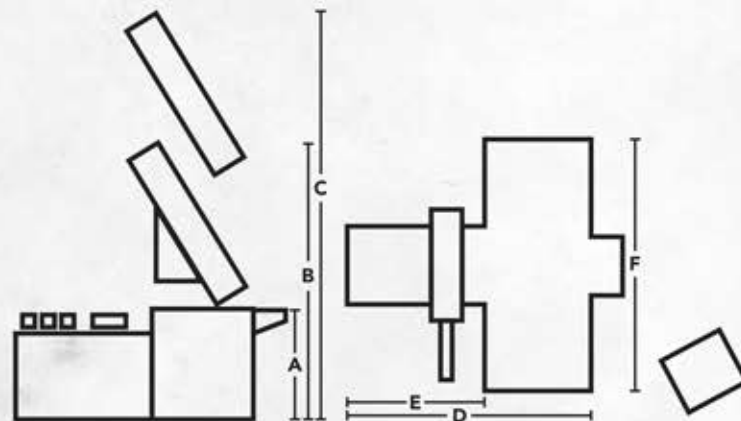
- Powered from the main drive shaft of the saw, the brush changes speed along with the blade to assure that chips are being removed from each gullet of the blade, improving cutting performance and blade life.
- The chip auger rotating in the coolant return removes chips quickly and efficiently, freeing the operator to perform more productive operations. Coolant is allowed to drain back to the tank before the chips are removed from the machine. (Optional on the PA18/3 EPC)



PRODUCT SPECIFICATIONS

| | PA10 | PA13 | PA18 |
|------------------------|----------------------|----------------------|---------------------|
| Rectangular Capacity | 8" x 11.5" | 13" x 14" | 18" x 18" |
| Round Capacity | 10" | 13" | 18" |
| Blade Size | 1.25" x .042" x 138" | 1.25" x .042" x 162" | 1.5" x .050" x 184" |
| Blade Speed | 70 - 330 SFPM | 70 - 330 SFPM | 70 - 330 SFPM |
| Blade Tension | 30,000 PSI | 30,000 PSI | 30,000 PSI |
| Blade Drive | 5 H.P. (3.75 kW) | 5 H.P. (3.75 kW) | 7.5 H.P. (5.6kW) |
| Hydraulic Pump | 1 H.P. (.75kW) | 1 H.P. (.75 kW) | 1 H.P. (.75 kW) |
| Coolant Pump | 1/8 H.P. (0.09 kW) | 1/8 H.P. (0.09 kW) | 1/8 H.P. (0.09 kW) |
| Maximum Index Capacity | 16" | 20" | 20" |

| | | | |
|---|-----|-----|-----|
| A | 27" | 27" | 27" |
| B | 44" | 53" | 57" |
| C | 64" | 80" | 93" |
| D | 75" | 84" | 88" |
| E | 77" | 84" | 98" |
| F | 43" | 43" | 48" |



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