

marvel[®]

MANUFACTURING COMPANY, INC.

CIRCULAR SAWS

P-70B

P-100B

P-150B

P-230B

HIGH SPEED CARBIDE CIRCULAR SAWS



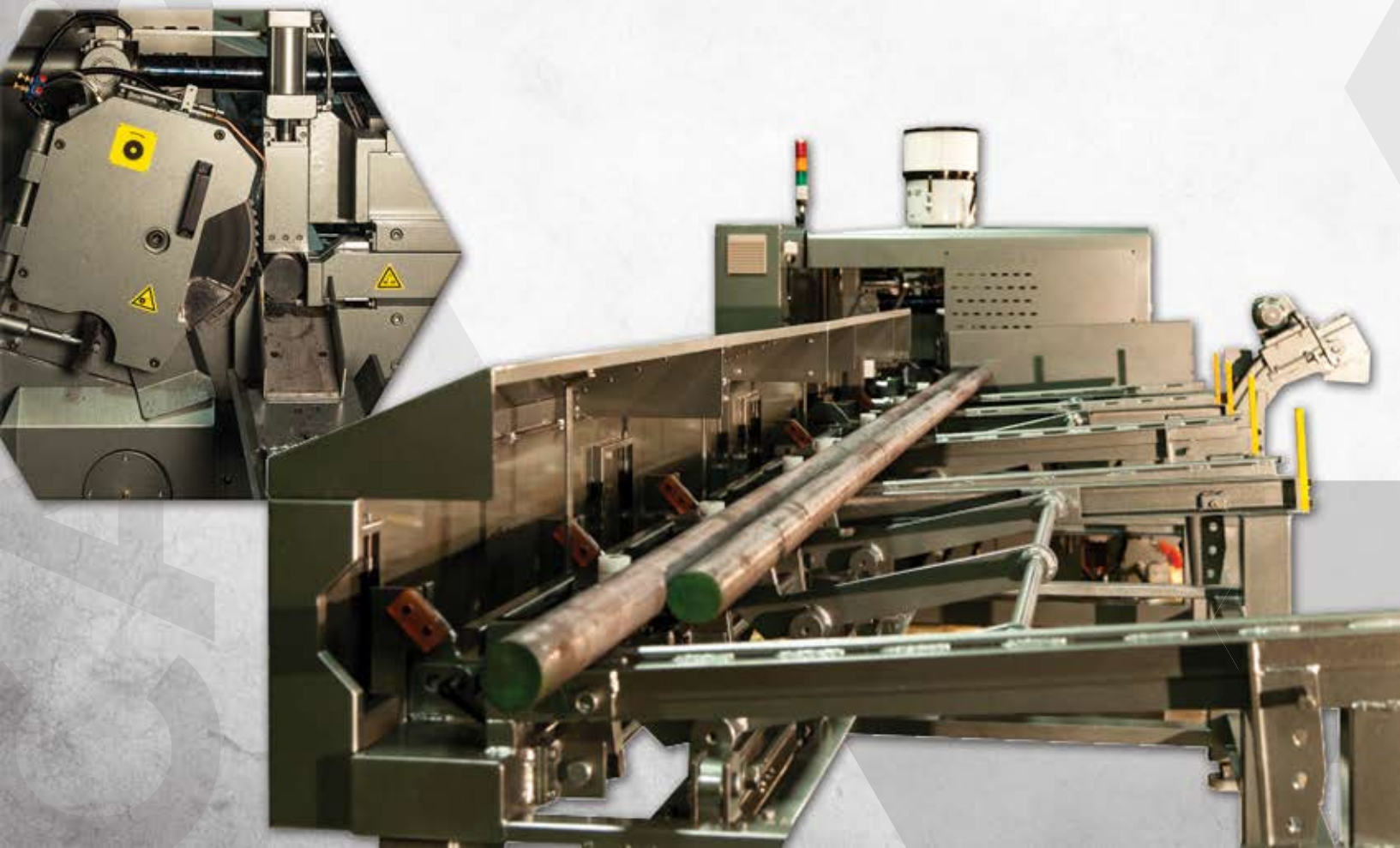
SPARTAN[®] SERIES

- TOUCH SCREEN CONTROL
- AUTOMATIC LOADING TABLE
- INVERTER DRIVEN VARIABLE BLADE SPEED

EXPECT QUALITY, DEMAND PERFORMANCE

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- **Vises:** Machine vises clamp the material from the sides as well as vertically. The floating shuttle vise retracts the material as the saw blade returns, preventing contact as the blade returns to the start position.
- **Mist Lubrication and Air Filter:** The mist lubrication system assures long blade life by lubricating the blade causing heat to be taken by the chip and not the material or blade. The air filter keeps the working environment clean by filtering air from the saw before it is passed back into the shop (*requires compressed air connection*).
- **Chip Brush:** The chip brush assures chips are removed from the gullet of the blade providing straighter cuts and longer blade life.
- **Chip Conveyor:** The paddle-type chip conveyor removes chips from the machine base and automatically deposits them in a collection container.
- **Precision Saw Head:** Four carbide blade guides allow for the use of the thinnest possible blades, providing fast accurate cutting while minimizing kerf loss.
- **Air Filter:** The CE approved air filter keeps the environment around the saw clean while the mist lubrication system cools and lubricates the saw blade as well as the carbide blade guides.
- **Hydraulic Discharge Chute:** The automatic, hydraulically controlled discharge chute assures that trim cuts and remnant pieces are separated from good parts.
- **Automatic Loading Table:** The heavy-duty loading table provides fully automatic feeding of bar stock. Incoming bars are automatically loaded onto the bar feed table as needed. The automatic loading continues until all of the bars on the loader have been used, or until a pre set number of pieces have been cut.
- **Aluminum Cutting Circular Saws Available**
 - Increased blade speed: 1350 to 3500 RPM
 - Modified blade guides
 - Advanced chip cleaning system
 - Optional vacuum system available for better chip removal.



TOUCH SCREEN CONTROLS

The user-friendly touch screen allows the operator to select material type and set the number of teeth in the blade. Both feed and blade speed are automatically set. Job storage of up to 9 different jobs is available. The self-diagnostic feature allows for on-screen trouble shooting.

AUTOMATIC BAR FEED

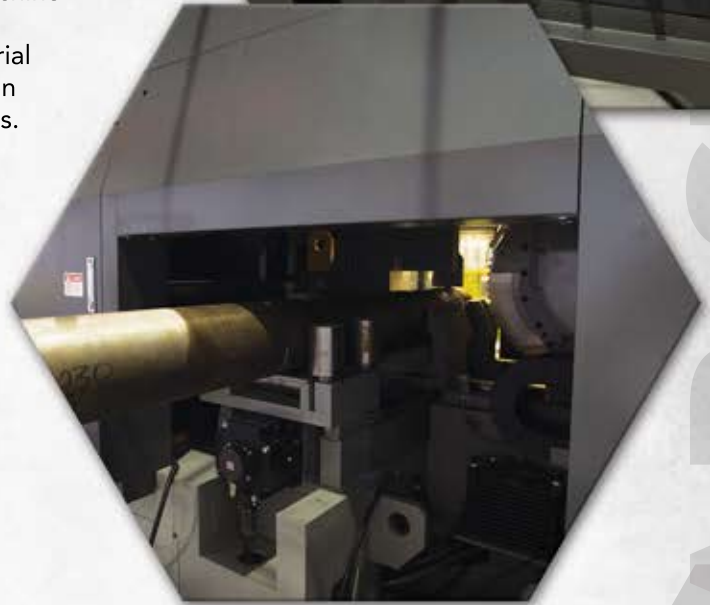
The automatic bar feed system is powered by a servo motor combined with a precision ball screw. The floating rear vise adapts to slightly crooked material while the vertical hold-down clamp helps to ensure square cuts. Prior to feeding in the work piece the bar feed vise shifts slightly away from the fixed machine vise to prevent friction or drag. After each cut the material automatically retracts to prevent contact between the material and the blade teeth as the saw heads returns. Depending on the length of cut, remnant lengths can be as little as 5 inches. The remnant length can be reduced even further with the addition of the Remnant Reducing Vise option.

SERVO FEED SYSTEM

The saw head is driven by a Mitsubishi servo controlled precision ball screw, assuring accurate feed pressure and consistent chip load through the cut.

The servo feed minimizes vibration resulting in optimal surface finish and longer blade life. The blade drive transmission is cooled by oil bath lubrication.

The electro-magnetic powder metal blade brake further reduces vibration while minimizing transmission backlash.



CHIP BRUSH

The chip brush assures chips are removed from the gullet of the blade providing straighter cuts and longer blade life.

CHIP CONVEYOR

The paddle-type chip conveyor removes chips from the machine base and automatically deposits them in a collection container.



PRODUCT SPECIFICATIONS

	P-70B	P-100B	P-150B	P-230B
Round Capacity				
Maximum	2-3/4"	4"	6"	9"
Minimum	1/2"	5/8"	2-3/4"	2-3/4"
Rectangular Capacity				
Maximum	2"	3-1/8"	4-1/8"	6-1/4"
Minimum	5/8"	5/8"	2-3/4"	2-3/4"
Blade Size	285mm x 2mm	360mm x 2.5mm	460mm x 2.7mm	750mm x 3.8mm
Blade Speed	30 - 150 RPM	30 - 130 RPM	30 - 130 RPM	20 - 70 RPM
Blade Drive	10 H.P.	15 H.P.	20 H.P.	40 H.P.
Hydraulic Pump	2 H.P.	3 H.P.	5 H.P.	5 H.P.
Machine Weight	5,060 lbs	8,580 lbs	10,780 lbs	17,600 lbs
Floor Space with Table	6'7"W x 22'5"L	9'6"W x 22'5"L	10'2"W x 23'6" L	11'8"W x 23'4"L

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