Manual Power Saw
MPS EA Series

Your solution for cutting and grinding large castings

![AW Bell MACHINERY pty ltd]
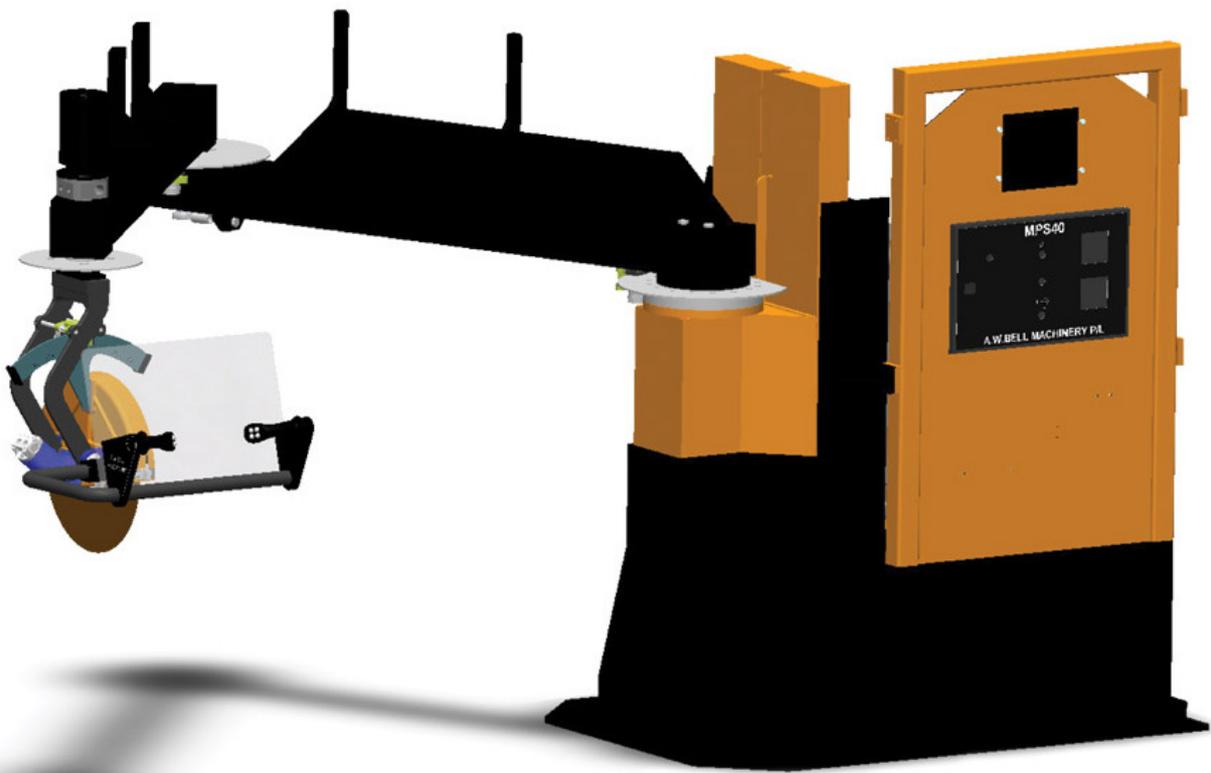
Improving safety, productivity and capabilities in the modern foundry

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OVERVIEW

A manually operated abrasive cut off saw, the MPS EA is designed with the operator in mind. Flexibility in movement, hydraulic height adjustment and a two button safety circuit combine to make the MPS series not only the safest alternative in manual cut-off, but one that the operator can feel confident in using. Designed to operate with up to a 750mm abrasive wheel and 55 kW drive motor, the MPS EA series offers an effective cutting area of 1800mm x 1800mm x 800mm, enabling it to tackle even the biggest jobs.

STANDARD FEATURES

- **Safety**
  The machine utilizes a two button safety start, requiring the operator's hands to remain on the controls during cutting. Removing one or both hands instantaneously stops the cutting wheel.

- **Bi-directional arm**
  A choice of machine setup is offered at the time of order. Choose either a right or left hand manipulator arm, depending on your particular production and factory layout requirements.

- **Adjustable height**
  Hydraulic height adjustment by means of a switch on the operators' controls allows for easy height adjustment to accommodate for wheel wear and different workpiece sizes.

- **Pivot locking**
  Spring applied brakes act on all pivots to lock the cutting wheel in position as required. This is invaluable when performing heavy vertical cuts. This also holds the position of the cutting head when unattended.

- **Blade tilt adjustment**
  A disc brake secures the tilt angle of the wheel and is easily adjusted via a switch on the operators' control. Once released, the wheel can be tilted 30° either side of vertical.

- **Flexibility**
  A large cutting area envelope and moving the wheel to the workpiece allows for simple workpiece clamping. Responsive 4-axis control means that the operator can adapt to variations in both casting and positioning irregularities.

- **Error codes**
  Automatic shut down for high oil temperature, low oil level and motor overload. Error codes displayed on the main operator interface.

SPECIFICATIONS

|		MPS EA (Extended Arm)	
		US	Metric
A	Drive Motor (40HP standard)	30, 40, **50**, 75 HP	22, 30, **37**, 55 kW
B	Blade Diameter (20 in standard)	12, 16, 20, **24**, 30 in	300, 406, 500, **605**, 750mm
C	Up/Down Movement	31.5 in	800 mm
D	Left/Right Movement	48 in	1200 mm
E	Fore/Aft Movement	94 in	2400 mm
F	Blade tilt	+/- 30°	+/- 30°
G	Base Width	65 in	1650 mm
H	Base Depth	46 in	1200 mm
I	Base Height	79 in	2050 mm
J	Electrical Requirement	480V,3ph	380-415V,3ph
K	Machine Weight (Approx.)	5500 lbs	2500 kg

OPTIONS

- **Laser Line**
  The laser line can be an invaluable tool when lining up a cut. The 90° line generator displays the cutting path onto the part so that the operator can clearly see the projected cutting path.

- **Belt Linishing Head**
  As an option, the MPS EA Series can be supplied with a belt linishing head to further expand its capabilities. Designed as a quick-changeover assembly, the 6" wide x 132" long linishing belt can be utilised to allow fast metal removal. The linishing head comes complete with hydraulic belt tracking and belt tension. This head is supplied as standard with a steel contact wheel of 10" diameter. Changeover from cutting to linishing head takes 5-10 minutes.
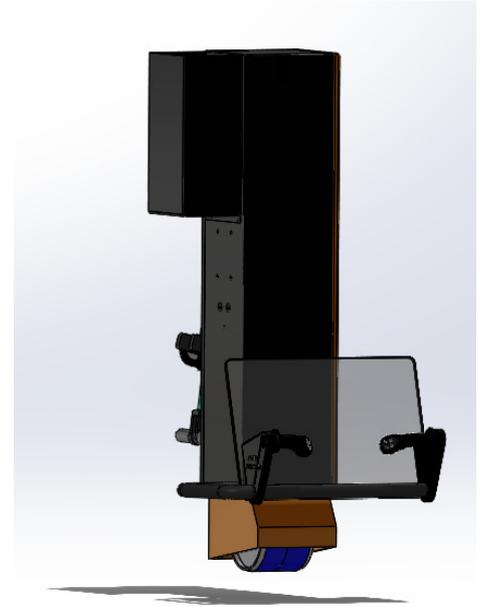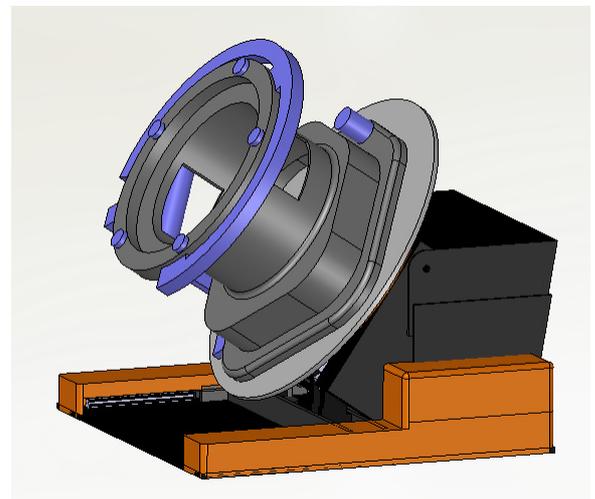
# ACCESSORIES

Model PCS50 – Manipulator Table
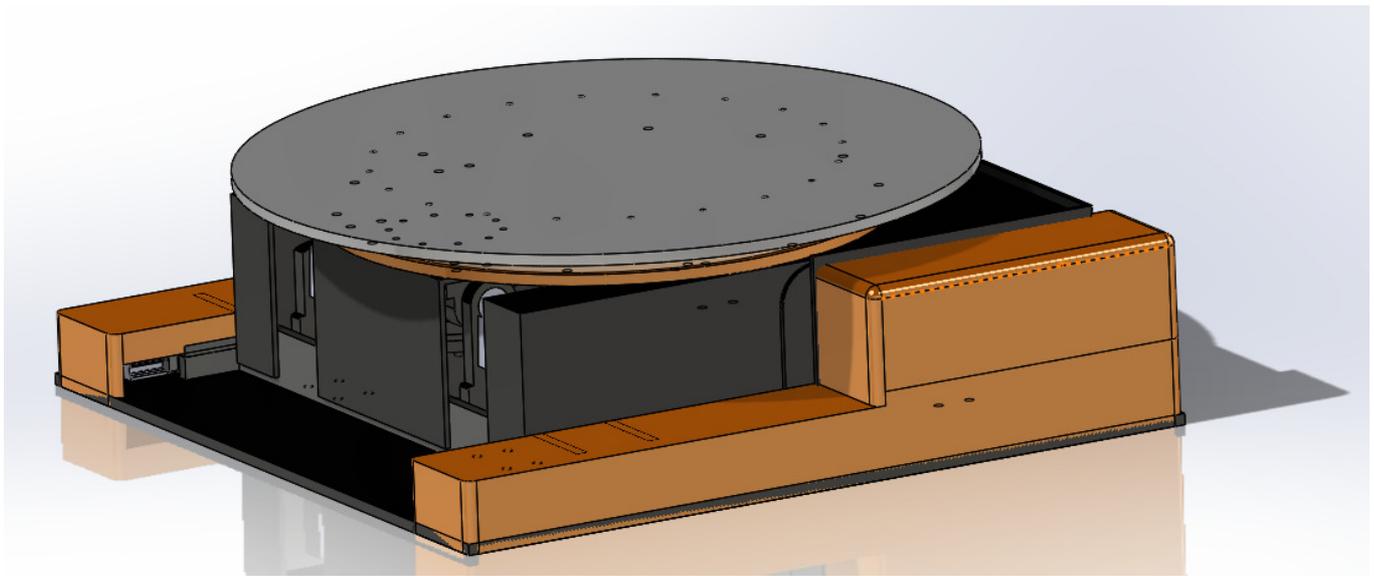
- Part weights up to 2200lbs
- Two axis of motion, 360° rotation and 90° tilt
- 50" table diameter
- Hydraulic port connections for clamping fixtures
- Integrated hydraulics into MPS machine (when ordered at the same time)
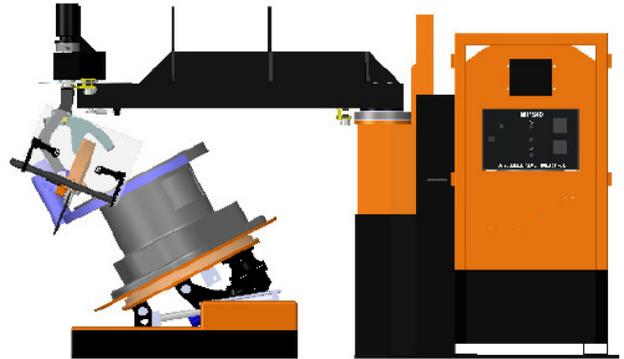- Controls integrated into cut-off saw control cabinet

APPLICATIONS

24" cutting wheel with PCS50 Manipulator Table

Vertical cutting & table vertical
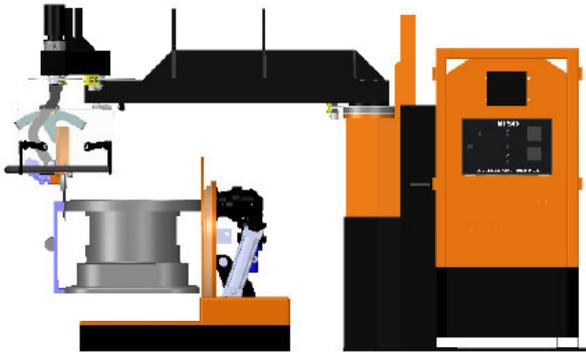
Blade tilt & table tilt
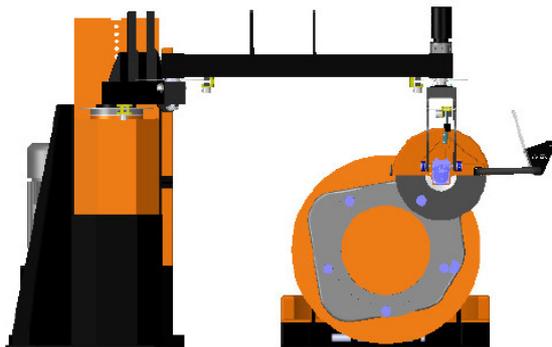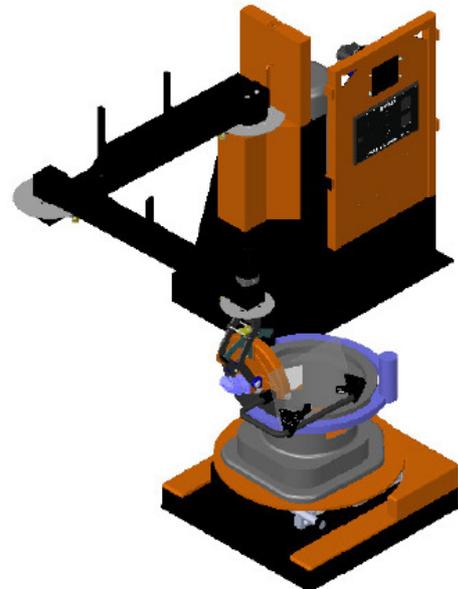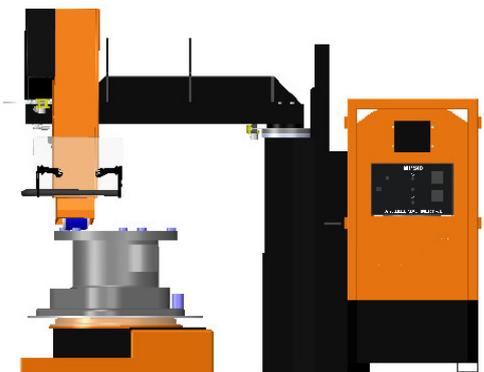

Radial riser removal

Table horizontal

With Optional Belt Linishing Head

Vertical gate grinding

Belt tilt & table tilt

A.W. Bell Machinery P/L reserves the right to change specifications without notice. 2014.