

# Manual Power Saw MPS Series

Safety and flexibility in the  
cut-off room



Designed by foundrymen,  
for foundrymen

[www.bellmachinery.com](http://www.bellmachinery.com)

## OVERVIEW

A manually operated abrasive cut off saw, the MPS 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 600mm abrasive wheel and 37 kW drive motor, the MPS series expands the capabilities of the modern foundry.

## 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.
- **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.
- **Auto Shutoff**  
The main drive motor will turn itself off if the cutting wheel is idle for 10 minutes. This combined with a 'no-load' start-up equates to significant energy savings.
- **Compact Design with Inbuilt Fork Tubes**  
Allows for easy maneuverability and machine setup.
- **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 Standard Series	
		US	Metric
A	Drive Motor (40HP standard)	30, <b>40</b> , 50 HP	22, <b>30</b> , 37 kW
B	Blade Diameter (20in standard)	12, 16, <b>20</b> , 24 in	300, 406, <b>500</b> , 605 mm
C	Up/Down Movement	14 in	350 mm
D	Left/Right Movement	24 in	600 mm
E	Fore/Aft Movement	35 in	900 mm
F	Blade tilt	+/- 30°	+/- 30°
G	Base Width	37 in	950 mm
H	Base Depth	46 in	1200 mm
I	Base Height	79 in	2010 mm
J	Electrical Requirement	480V,3ph	380-415V,3ph
K	Machine Weight (Approx.)	3300 lbs	1500 kg

## OPTIONS

- **Laser Line**

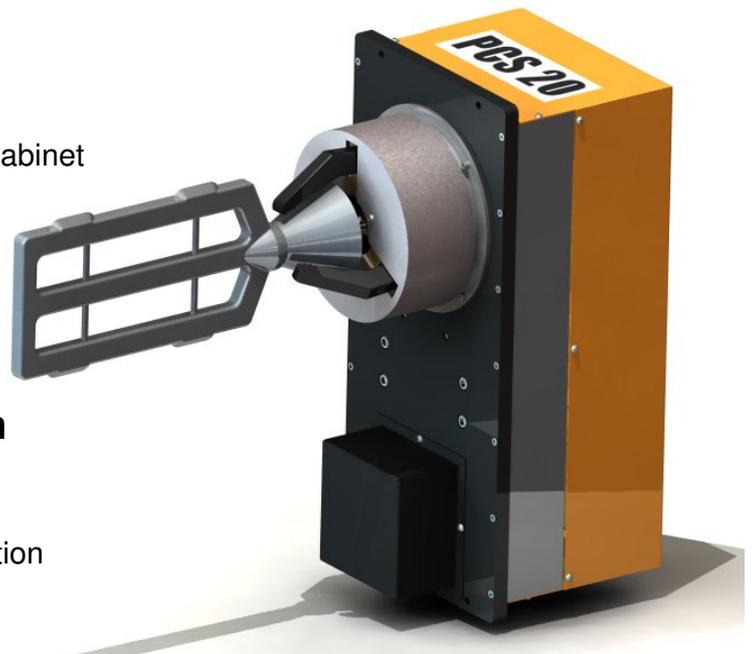
The laser line can be an invaluable tool when lining up a cut. The 90° line generator displays the cutting path onto the part so that the operator can clearly see the projected cutting path.



## ACCESSORIES

### Model PCS20 – Clamping system

- 3-jaw clamping system for the investment cast pouring cup
- Custom designed replaceable jaw tips
- 360 degree rotation of part
- Foot Pedal Operation
- Integrated hydraulics into MPS machine
- Controls integrated into cut-off saw control cabinet
- Customised clamping methods available



### Also Available with rise-fall option

- 250mm (10”) rise-fall stroke
- 90 Degree track for flexibility in cutting direction
- Maintains clear floor area below work-piece
- Integrated controls into MPS machine



# APPLICATIONS

## 20" cutting wheel with PCS20 Clamping system

Floor Layout



Cutting Large investment castings



## Suitable for a variety of materials

Cutting gray cast iron with diamond wheel

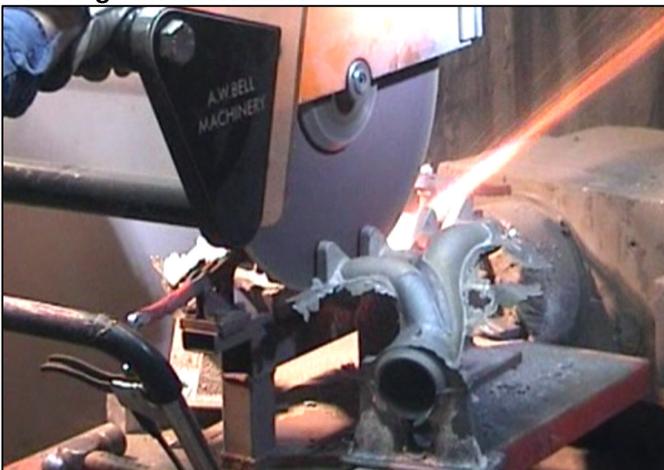


Cutting Aluminium with abrasive wheel



## Cutting sand castings

Casting fixtured to table



Using PCS20 Clamp and fixture



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