

# Automated Cut Off Saw ACS850

Safety and flexibility in the  
cut-off room



Designed by foundrymen,  
for foundrymen

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

# OVERVIEW

The ACS850 cutting system provides maximum safety in a fully enclosed, manual or fully-automated cutoff system. Dual joystick manual operation provides the operator with fast and efficient positioning of the part and cutting wheel all from a viewing position directly in front of the work piece. Simplified programming and teach functions coupled with ergonomically designed control panel, streamline initial part setup, whilst maintaining a high accuracy results. Multi axis servo control of all four axes of motion minimizes manual tree positioning and precision access to hard to reach gates, whilst maintaining a high accuracy results.

## STANDARD FEATURES

- Safety**  
Safety relays in conjunction with a safety PLC monitor doors and emergency stop devices to reliably shut the machine down at the first sign of safety breach. Loading doors and guards are designed such that they inhibit operator ingress during a cycle, yet provide fast and easy access for part loading, cleaning and cutting wheel change.
- Operator access**  
The larger corner opening door allows for maximum access to the loading zone from 2 angles boasting clear floor access right up to the loading zone and overhead access to the centre of the work table.
- Large viewing windows**  
Large viewing windows allow clear viewing of the cutting operation. Furthermore, the configuration of the axes means that the work piece is always close to the operator, with the wheel maintained at a constant height to give the operator optimum viewing of the cutting zone.
- Cutting wheel laser line**  
A laser line mounted to the front of the cutting wheel guard aids the operator to line up to the correct cutting line.
- Spark Arrester**  
The wall behind the cutting head is designed for direct connection to dust collector. The angled fins help to arrest sparks from the cutting process and direct them downwards for collection into the swarf collection chute, minimizing clean up time.
- Compact Design**  
The ACS850 machine is built on a compact footprint and requires only three-phase power and pneumatic connection for operation. This allows trouble free installation and easy re-location should your layout need to change
- Flexibility**  
The 4 axes of motion allows for simple workpiece clamping. Operation via joysticks allows the operator to adapt to variations in both casting and positioning irregularities quickly and with minimal effort.

## SPECIFICATIONS

		ACS850	
		US	Metric
A	Drive Motor	50 HP	37 kW
B	Blade Diameter	20 in	508 mm
C	Up/Down Movement	15 in	381 mm
D	Left/Right Movement	12 in	305 mm
E	Fore/Aft Movement	24 in	610 mm
F	Table rotation	360°	360°
H	Base Width	90 in	2300 mm
I	Base Depth	87 in	2200 mm
J	Base Height	83 in	2100 mm
K	Electrical Requirement	480V,3ph	380- 415V,3ph
L	Machine Weight (Approx.)	6600 lbs	3000 kg

## OPTIONS

### Custom forth axis design

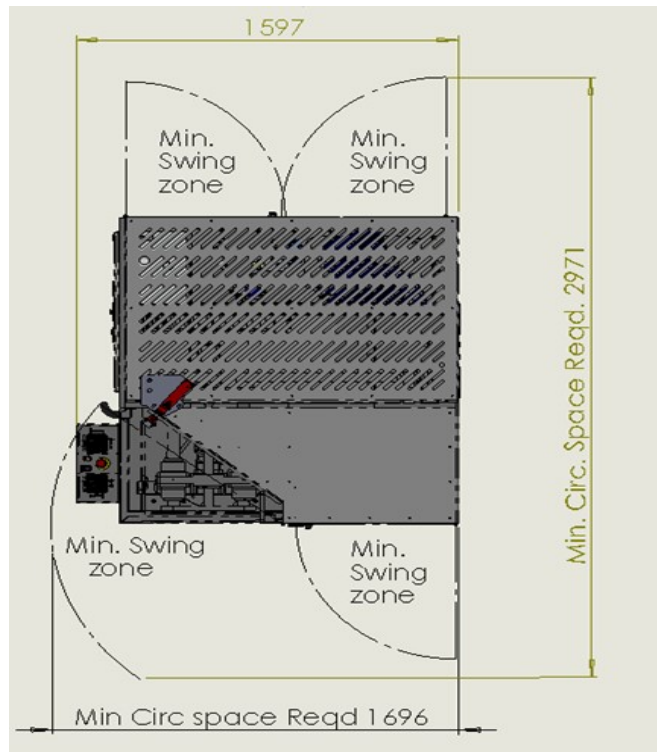
The forth axis can be custom designed to suit particular runner Systems. Hydraulic clamping can also be integrated into the forth axis as required.

### Custom part Envelope

Larger parts? A W Bell Machinery can design based on your requirements.



## LAYOUT & FLOOR PLAN



A.W. Bell Machinery P/L reserves the right to change specifications without notice. 2016.

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