

Semi-Automated Cut Off Saw ACS 560

Safety and flexibility in the
cut-off room



Designed by foundrymen,
for foundrymen

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OVERVIEW

The ACS560 cutting system provides maximum safety in a fully enclosed, semi-automated system. Dual joystick operation provides the operator with fast and efficient control of part manipulation and cutting wheel from a viewing position directly in front of the work piece. With five axes of motion, re-fixturing of parts between cuts is minimised, further reducing operator lifting. Hydraulic drive of the cutting head offers flexibility in design and advantages in use, with fast start and stopping of the cutting wheel.

STANDARD FEATURES

- **Safety**
Safety relays 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 two front loading doors allow for maximum access to the loading zone. Key features are 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
- **Compact Design**
The ACS560 machine is built on a compact footprint and requires only three-phase power for operation. This allows trouble free installation and easy re-location should your layout need to change
- **Flexibility**
A large cutting area envelope and 5 axes of motion allows for simple workpiece clamping. Operation via joysticks allows the operator to 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

		ACS560	
		US	Metric
A	Drive Motor	60 HP	45 kW
B	Blade Diameter	24 in	600 mm
C	Up/Down Movement	24 in	600 mm
D	Left/Right Movement	29.5 in	750 mm
E	Fore/Aft Movement	24 in	600 mm
F	Table rotation	360°	360°
G	Fifth axis	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 fifth axis design

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

Custom part Envelope

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

Interchangeable cutting head

Interchangeable cutting heads may be desirable if different sized wheels or different types of wheels need to be used. Through the use of different hydraulic motors, multiple cutting wheel speeds can be achieved. This is required for smaller abrasive wheels or diamond coated wheels which both need to run at faster RPM than the standard 24" abrasive wheel.



ACCESSORIES



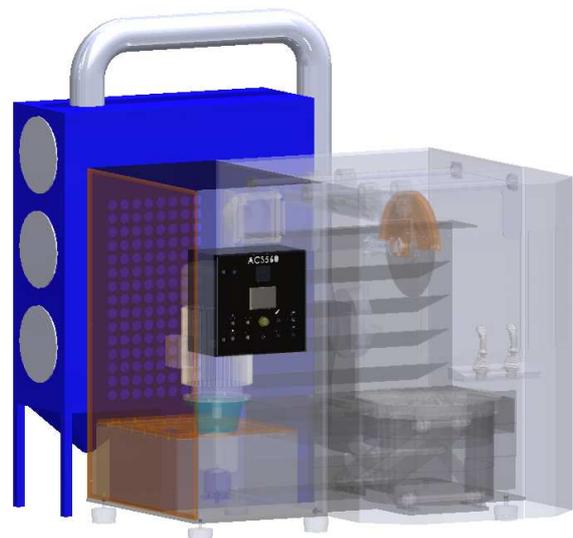
Crane & Hoist

An integrated jib crane with 2000mm reach (approx 1000mm from work table centre) enables easy loading of the work piece. The jib is mounted to the top of the machine, allowing reduced jib length and preventing a floor mounted crane from interfering with machine access.

Included is a 150kg hoist.

Dust Collector

Stand alone dust collector units with spark arrester can be supplied with all necessary ducting. These units can also be integrated into the control system of the machine to ensure operation while cutting and provide feedback on error codes



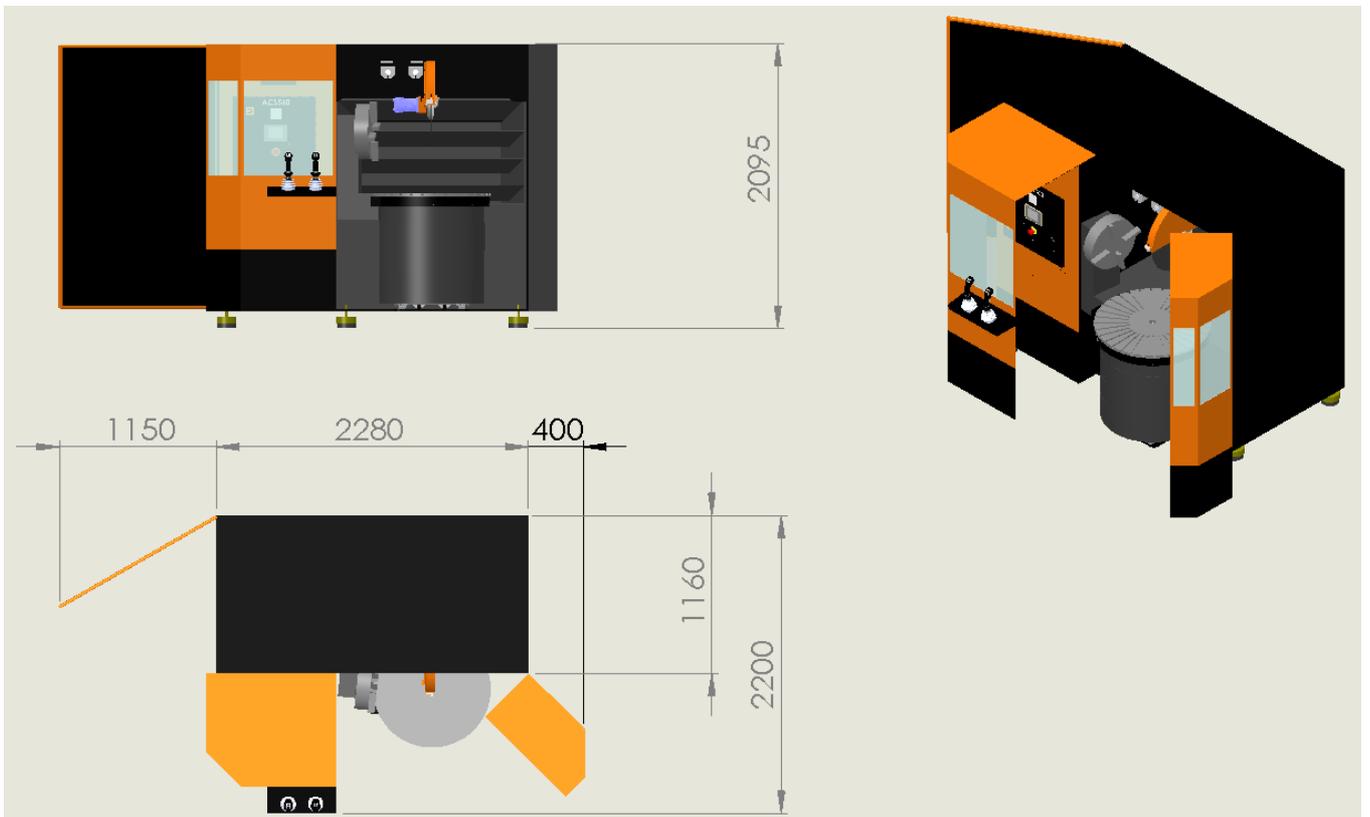
LAYOUT & FLOOR PLAN



Doors Closed



Doors open for loading



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