



Welding Automation

PerformArc® 1100HW

Small Footprint, High Productivity

- This high-production system has a footprint of under 17'x10' and allows for a second robot to be added, doubling throughput without requiring additional floor space.
- Easy-to-slide teach access doors keep the system slim and allow for tight stacking.
- Rotate parts into the desired welding position, maximizing torch access and weld quality.
- The PA 1100HW utilizes standard Panasonic AC servo motors for high-performance indexing, load balancing and quick stopping.

Manufacturing Flexibility

- Our pre-engineered system is pre-wired and pre-assembled with a fully-welded frame. It's shipped to you fully assembled.
- The PA 1100HW features a wide cell entrance and open overhead, allowing fixtures and parts to easily be changed by crane or forklift.
- For ever-changing production needs, the large rotation diameter and heavy payload capacity allow low-, mid- and high-volumes to be welded in single, multiple or progressive fixtures.

FILTAIR® Weld Fume Extractor with Automation Hood

- Designed for the rugged demands of robotic industrial welding operations, the FILTAIR Automation solution integrates the FILTAIR Weld Fume Extractor with the Automation Hood, providing a custom-engineered fume extraction solution.

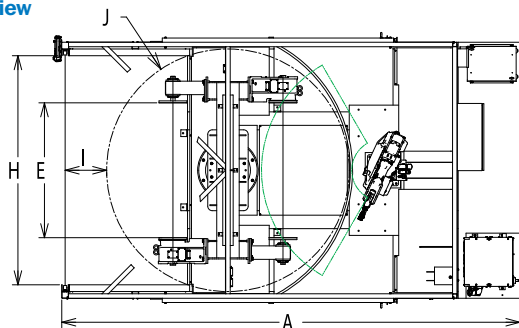


PerformArc® 1100HW Automation Solution

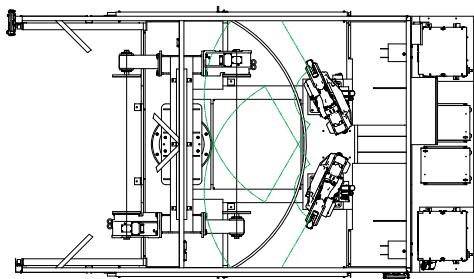
Dimensional Specifications*		
Frame length	A	5181.6 mm (204")
Frame width	B	2895.6 mm (114")
Frame height	C	2286 mm (90")
Outboard rotation CL from floor	D	1076.325 mm (42.375")
Headstock-tailstock span	E	1524 mm (60") D
Cell width including doors	F	3117.85 mm (122.75")
Fixture rotation diameter	G	1016 mm (40")
Cell front opening (max)	H	2590.8 mm (102")
Penetration distance (stopping calculation)	I	469.9 mm (18.50")
Rotation diameter	J	2667 mm (108")
Shipping weight		3356.584 kg (7400 lb)

*Note: All dimensions are approximate.

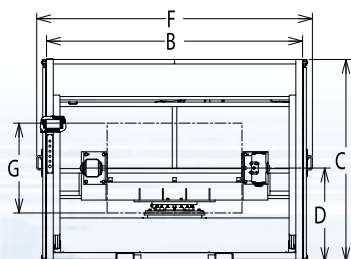
Top View



Top View (Optional Dual Robot)



Front View



Standard Specifications

Fully Integrated Miller Welding Automation Total Solution Includes:

- Panasonic 6 kg arc welding robot
- Panasonic latest generation 64 bit controller with TFT color display teaching pendant utilizing Windows® CE
- Auto-Access® inverter arc welder
- Miller 4 drive roll wire feeder (dependent on your application)
- Tregaskiss® 500 A air-cooled welding torch
- High speed main indexing servo positioner
- Secondary rotation axis servo positioner 500 kg (2)
- Miller designed and manufactured total productivity system

System features include:

- Integrated operator interface (E-Stop, Auto, Servo On, Mode Select, Table Load/Unload, Start)
- (2) Sliding doors for easy access to the teaching area
- TCP pointer and resident TCP check program
- Tip change monitor and maintenance program for easy torch upkeep
- Arc start retry, arc overlapping, flying arc start, password protection
- Resume function, shifting functions, online help function

Positioner General Technical Specifications

Main sweep axis

Model	Servo Positioner
Motor type	3.5 kW AC Digital Servo
Control type	Servo Control
Rotation time (180 deg index)	t=3.5 sec
Through hole (for utility pass through)	120 mm (4.7")

Secondary axis (2)

Model	500 kg
Motor type	1 kW AC Digital Servo
Control type	Servo Control
Payload (per side)	500 kg (1100 lb)
Payload offset (from positioner CL)	Please consult manual
Through hole (for utility pass through)	55 mm (2.16")

Robot Options

TA-1400G3
TA-1600G3
TA-1800G3
Dual Robot

Welder Options

Auto-Access 300A	60% (Pulse/CV/RMD)	GB2-350A	60% (CV)
Auto-Access 450A	100% (Pulse/CV/RMD)	HM3-350A	60% (Pulse/CV/SPII)
Auto-Access 675A	100% (Pulse/CV/RMD)	HM3-500A	100% (Pulse/CV/SPII)
TAWERS WG 350A	60% (Pulse/CV/SPII)	BP4-300A	40% (GTAW)
TAWERS WGH 450A	100% (Pulse/CV/SPII)		