



Welding Automation

PerformArc® 1100FW

Extremely High Productivity - Industry Leading

- High-speed “ferris wheel” positioner with three independent servo motors provides industry-leading indexing times, maximizing production time.
- A single-point-of-control, dual robot is available, doubling throughput without requiring additional floor space.
- Optional load station jog provides complete load position flexibility, allowing multi-stage loading or tack and finish welding to occur in a common welding fixture.

Manufacturing Flexibility

- Our pre-engineered system is pre-wired and pre-assembled with a fully-welded frame. It's shipped to you in three sections for quick assembly and connection.
- The PA 1100FW features an open area above load station for easy changeover of welding fixtures or weldments 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.



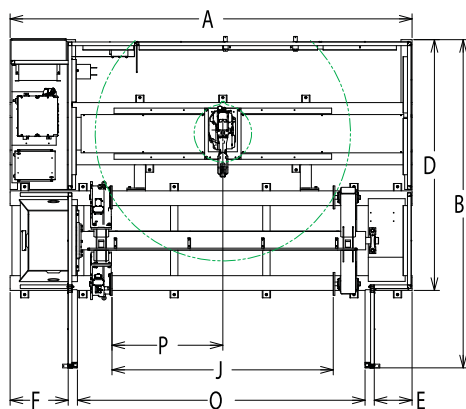
PerformArc® 1100FW Automation Solution

Dimensional Specifications*

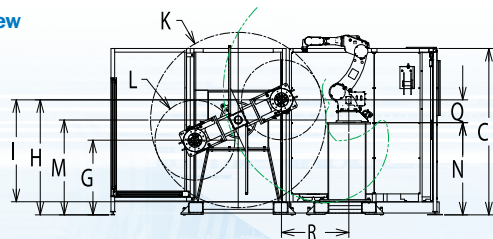
Cell width	A	5618 mm (221")
Cell depth	B	4567 mm (180")
Cell height	C	2286 mm (90")
Cell main base depth (excluding wings)	D	3456 mm (136")
Wing inset (right hand side)	E	523 mm (20.5")
Wing inset (left hand side)	F	802 mm (31.5")
Outboard positioner CL (from floor)	G	1025 mm (40.3")
Inboard positioner CL (from floor)	H	1578 mm (62.1")
Inboard positioner CL (from decking)	I	1403 mm (55.2")
Headstock-tailstock span	J	3000 mm (118")
Main axis rotation diameter	K	2408 mm (95")
Secondary axis rotation diameter	L	1100 mm (43.3")
Main axis rotation height	M	1301 mm (51.2")
Robot height (from floor)	N	1264 mm (49.7")
Light curtain opening	O	4038 mm (159")
Robot CL to positioner faceplate (single robot cell)	P	1534 mm (60.4")
Height difference (robot base to inboard positioner CL)	Q	313 mm (12.3")
Depth difference (robot CL to inboard positioner CL)	R	931 mm (36.6")
Shipping weight rear robot base		3136 kg (6900 lb)
Shipping weight front positioner base		2590 kg (5700 lb)

*Note: All dimensions are approximate.

Top View



Side 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-Axcess® 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 solution

System features include:

- Integrated operator interface, pedestal mounted for location flexibility
- 6-inch color touch screen panelview with integrated maintenance and production screens
- Cycle start and emergency stop buttons integrated into Panelview operator station
- Sliding interlocked rear access door for maintenance and programming
- 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	Panasonic RDV-3000
Motor type	Panasonic 3.5 kW AC Digital Servo
Control type	Robot Servo Control
Rotation time (180 deg index)	t=3.5 sec
Through hole (for utility pass through)	100 mm (3.9")

Secondary axis (2)

Model	Panasonic 500 kg Type II Servo Positioner
Motor type	Panasonic 1 kw AC Digital Servo
Control type	Robot 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
TA 1900G3
Dual Robot

Welder Options

Auto-Axcess 300A 60% (Pulse/CV/RMD)	GB2-350A 60% (CV)
Auto-Axcess 450A 100% (Pulse/CV/RMD)	HM3-350A 60% (Pulse/CV/SPII)
Auto-Axcess 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)	