



Welding Automation

PerformArc® 1100SS

Extremely High Productivity

- Station indexing time is eliminated, allowing the robot to immediately begin welding on station B when station A is complete, gaining efficiencies and maximizing valuable time.
- A second robot can be added, doubling throughput without requiring additional floor space.
- Standard 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 1100SS features an open side wall for easy changeover of holding 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.

- Single- or dual-sided operation minimize interruptions and maximize throughput by allowing fixtures or parts to be changed while welding is occurring on the opposite side.

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.

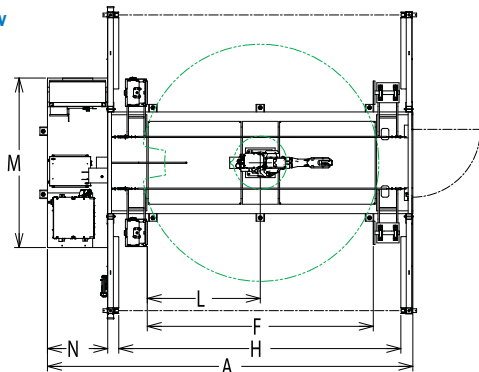


PerformArc® 1100SS Automation Solution

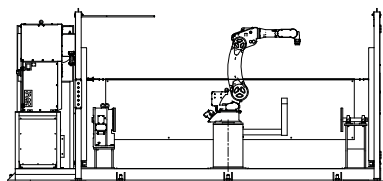
Dimensional Specifications*		
Cell width	A	5080 mm (200")
Cell depth	B	4254 mm (167.5")
Cell height	C	2286 mm (90")
Rotation height (from floor)	D	841 mm (33")
Rotation diameter	E	1117 mm (44")
Headstock-tailstock span	F	3048 mm (120")
Distance from rotation to light curtain CL	G	489 mm (19.25")
Light curtain opening	H	3803.65 mm (149.75")
Robot height (from floor)	I	787.4 mm (31")
Robot distance (from CL of rotation)	J	945 mm (37.2")
Positioner CL to positioner CL	K	1890 mm (74.4")
Robot CL to positioner faceplate	L	1525 mm (60")
Controls area width	M	2286 mm (90")
Controls area depth	N	815 mm (32")
Shipping weight main base		3084.428 kg (6800 lb)
Shipping weight wing pallet		273 kg (600 lb)

*Note: All dimensions are approximate.

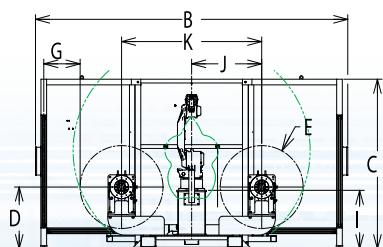
Top View



Side View



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 500 kg (2)
Miller designed and manufactured total productivity system
System features include:
(2) Integrated operator interfaces (E-Stop, Auto, Servo On, Hold, Start, Position Jog)
(1) Full open hinged door for maintenance access
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
Standard remote axis jog (unlimited positional jog at operator load station)

Positioner General Technical Specifications	
Model	500 kg (2)
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")

Tooling Area Options	
Standard headstock-tailstock width	10' (3048 mm, 120")
Standard rotation diameter	1117 mm (44")
Optional headstock-tailstock widths	8' (2438 mm, 96") 12' (3658 mm, 144")
Optional rotation diameters	1270 mm (50")
Optional payload	1000 kg (2200 lb)

Robot Options	Welder Options	
TA-1400G3	Auto-Access 300A	GB2-350A
TA-1600G3	60% (Pulse/CV/RMD)	60% (CV)
TA-1800G3	Auto-Access 450A	HM3-350A
TA-1900G3	100% (Pulse/CV/RMD)	60% (Pulse/CV/SPII)
Dual Robot	Auto-Access 675A	HM3-500A
	100% (Pulse/CV/RMD)	100% (Pulse/CV/SPII)
	TAWERS WG 350A	
	60% (Pulse/CV/SPII)	BP4-300A
	TAWERS WGH 450A	40% (GTAW)
	100% (Pulse/CV/SPII)	