

PerformArc™ PA1100FW

Robotic Welding Cell



Quick Specs

Industrial Applications

Contract manufacturing
Automotive components
Recreational vehicles
Farm/construction machinery
Implements
Office furniture
Food equipment

Product Type

Indexing ferris wheel
Station A: for load/unload
Station B: robot /weld envelope
Single- or dual-robot configuration

Processes

MIG (GMAW): Auto-Continuum™ 500
MIG (GMAW): TAWERS 350/450/Active Wire
TIG (GTAW): TAWERS WG3 300A DC

Machine Dimensions

Height: 90 in. (2,286 mm)
Width: 215 in. (5,461 mm)
Depth: 189 in. (4,801 mm)

Payload Capacity

1,100 lb. (500 kg) per station

Input Power

Standard: 480 V
Optional: 208 V, 230 V, 240 V, 575 V

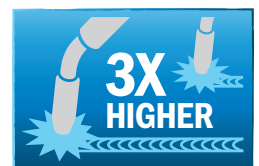
PerformArc PA1100FW uses a ferris wheel that provides alternatives for fixturing, different from our turntables or H-frames. Ferris wheel indexes tooling and workpiece deeper into the robot-reach envelope. Single- and dual-robot configurations provide higher throughput capacity.



PerformArc PA1100FW



Easy integration of various weld processes and capabilities



Welding throughput versus manual welding

Miller recommends

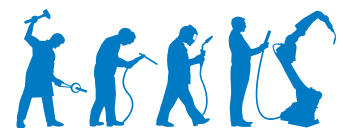


Visit HobartBrothers.com for your filler metal solutions.

Auto-Continuum 500



Major components except torches, consumables, and power supplies. Refer to specific component warranty for more information.



Evolve Your Welding™



Miller Welding Automation

An ITW Welding Company
281 E. Lies Rd.
Carol Stream, IL 60188 USA

Equipment Sales

Phone: 630-653-6819
Email: MWASales@millerwelds.com

Welders Supply & Gases

Phone: 502-637-4771
Email: info@gowelders.com

MillerWelds.com



Gowelders.com

PerformArc™ PA1100FW

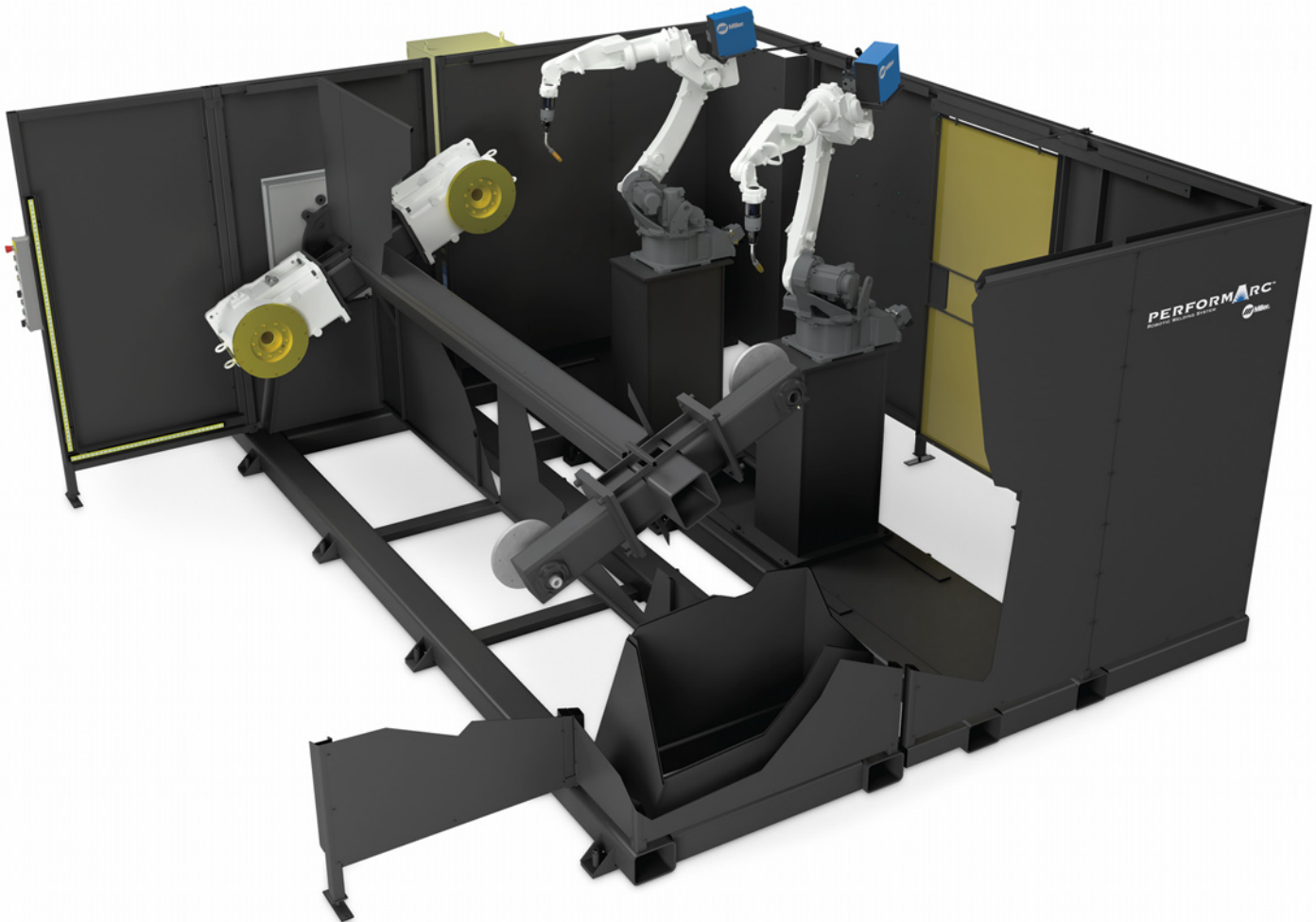
PA1100FW is a ferris wheel indexing cell design with an 1100-pound payload. Large tooling beds can index in and out of work envelope from a single load and unload station. Ferris wheel indexing allows parts to be placed deeper within the work envelope, solving robot-reach issues for complex shapes and larger sizes. Larger footprint can accommodate dual robots, if needed for higher throughput or welding multiple parts.

Operator protection is accomplished with sliding doors and an arc shield that indexes with the ferris wheel. Light curtains prevent operator from entering an active workstation.

Ships requiring additional assembly during installation. Position the two base modules with forklift, secure to floor and connect utilities, and assemble two wing extensions.

Easy to relocate. Disconnect utilities and floor anchors, remove wing extensions, relocate modules with a forklift, install wing extensions, secure to floor and connect utilities.

Full complement of capabilities. GMAW, GTAW, OptiDrive™ push-pull torch, active wire pull torch, and advanced arc modes (Accu-Pulse®, Versa-Pulse™, SP MAG, RMD®) to grow with your needs.

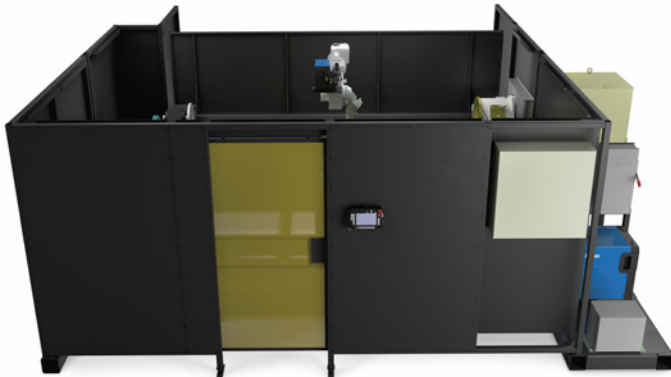
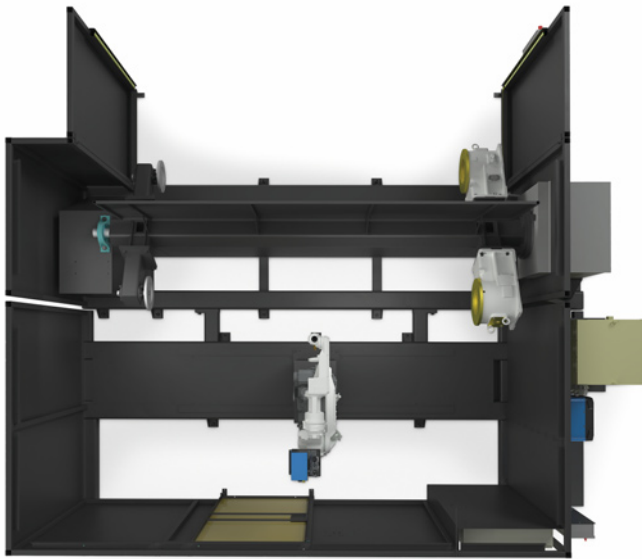


PerformArc™ PA1100FW Machine Specifications

Input Power	Standard Arc Welding Configuration	Optional Configurations Available
Standard: 3-phase, 480 V, 30 A Optional: 208 V, 230 V, 240 V, 575 V	Arc welder: Miller Auto-Continuum™ 500 Wire drive: Miller Auto-Continuum™ Robot: TM1800 or TM2000 Welding torch: Tregaskiss® air cooled	Active wire GMAW: Panasonic TAWERS and torch Pull torch solutions: Miller OptiDrive™ and Dinse torch GTAW: TAWERS WG3 300A DC High deposition: Hercules™

Approximate Dimensions	Approximate Shipping Weight	Payload Capacity
Height: 90 in. (2,286 mm) Width: 215 in. (5,461 mm) Depth: 189 in. (4,801 mm) Robot distance (from CL positioner): 60 in. (1,534 mm) Main axis rotation: 95 in. (2,408 mm) Outboard positioner (from floor): 40 in. (1,025 mm) Inboard positioner (from floor): 62 in. (1,578 mm) Headstock-tailstock span: 118 in. (3,000 mm) Light curtain opening: 155 in. (3,940 mm) Rotation diameter: 43 in. (1,100 mm)	Rear robot base: 6,900 lb. (3,136 kg) Front positioner base: 5,700 lb. (2,590 kg)	1,100 lb. (500 kg) per station

Note: Refer to sales drawings for more specific specifications.



Resources When You Need It

Pre-Sales Application Support

Contact Miller Welding Automation prior to sale to discuss possibilities to support and prove out your unique welding challenges. Our lab can complete trials and make recommendations that will help reduce risk in your purchasing decision. We'll review your access requirements and hook-up needs — air, gas or electric — prior to installation. Our goal is to have your PerformArc™ welding cell up and running the day it arrives your facility.

Training

We offer virtual training as well as in-person training at our different facilities to fit your needs. Training programs are offered for PerformArc operation and for our offline programming software — Desk Top Programming and Simulation (DTPS). Contact your Miller Welding Automation representative for more information.

Post-Sale Service and Preventative Maintenance

Contact Miller Welding Automation for service and preventative maintenance recommendations and programs, as well as troubleshooting of any operation issues.

Job Plate

Miller Welding Automation	
281 East Lies Road Carol Stream, IL 60188 USA Phone: 630-653-6819 www.MillerWelds.com / MWAService@twwelds.com Assembled in USA	
Model Type	PAXXXXXX
Serial Number	JXXX
Primary Input Voltage	480V XYZ
Number of Phases	3
Frequency	XYZ Hertz
Rated Current	XYZ Amps
Maximum Interrupt Current	XYZ,000 Amps
Electrical Drawing Index	PXYZS-SXXX ELEC 0X-2X-X.dwg
Date of Manufacture	October 2055
Mechanical Revision	J40XX
System Weld Torch Specification	
Manufacture - Tregaskiss For Parts Information Contact Miller Welding Automation	
CAX Torch, X ft., Pana, Brake	RAX12ABAXYZ
Mounting Arm	XX-306-X59-X
Insulation Disc, TM	5XDX-9ZZ
Control Cable, Panasonic	ZZ-7X5-0X
Contact Tips, .XXX, Acculock	B-Y010CH
Contact Tips, .YYY, Acculock	C-Z010CH
Nozzle Reamer/ Wire Cutter	ZZ9A45XXXXWL

Need help or have questions about your PerformArc system? Our 24/7 service line can assist you when you need it most. Our service team can help you with operation questions, or to arrange preventative maintenance. The job plate on the back of your system will provide you with quick access to important information about your system like part numbers for your consumables.

Contact Us

Miller Welding Automation is your single point of contact for configuring and ordering your PerformArc system.

Continued technical support can be counted on from Miller Welding Automation in Carol Stream, Illinois. Please call our hotline number: (630) 653-6819.

Spare parts and wear items are provided in your initial purchase of PerformArc. Spare parts can be ordered from Miller Welding Automation.

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SUPPLY & GASES

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