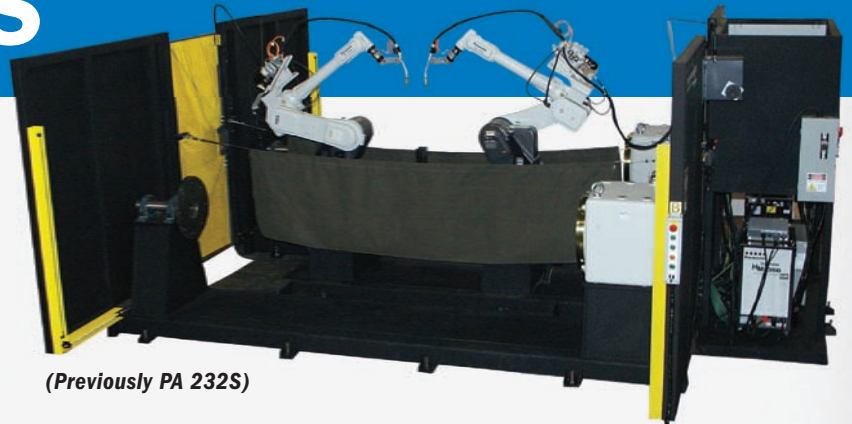




PA 2200 SS

PERFORMARC™
ROBOTIC WELDING SYSTEM



(Previously PA 232S)

Extremely High Productivity

- Station indexing time is eliminated, allowing the robot to immediately begin welding on station B when station A is complete.
- Available dual robot configuration theoretically doubles production throughput with no additional floor space required.
- Standard load station jog allows complete load position flexibility, enabling multi-stage loading or tack and finish welding to occur in a common welding fixture.
- Can be coupled with optional TAWERS™ robotic solutions for greater production throughput.
- Can be coupled with optional Auto-Access® E with INSIGHT™ weld data monitoring system to provide comprehensive feedback on welding activity and productivity.

Manufacturing Flexibility

- A fully-welded frame, pre-wired and pre-assembled then shipped to you in three sections utilizing quick assembly and connection capabilities.
- Open side wall design permits easy changeover of holding fixtures or weldments by crane or forklift.
- Low-mid-high volumes can be welded in single, multiple or progressive fixtures, providing a flexible platform for changing production needs.
- The heavy payload capacity, large rotation diameter and long headstock to tailstock span make large weldments possible.
- Single- or dual-sided operation allows fixtures or parts to be changed while welding is occurring on the opposite side, minimizing production interruptions, maximizing throughput.

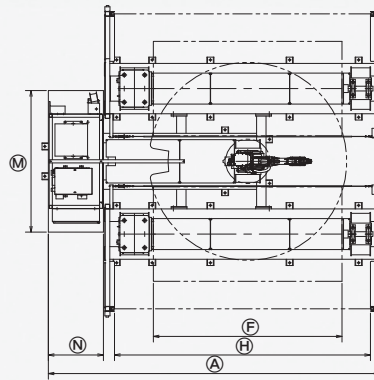
Personal Safety

- L-shaped light curtains at tested penetration distances, interlocked hinged maintenance gate, dual channel safety circuit, two stationary arc flash barriers, auxiliary axis servo disconnect and robot RT access station monitor are included in the standard safety features.
- Utilizes servo disconnect technology, which removes drive power during fixture loading to prevent unexpected motion of the outboard axis.
- Robot axis brake releases and servo power indicator lamps on the robot, in concert with external axis brake releases, for increased awareness and easier recovery.
- Load station jog function can reduce part-loading related injuries by enabling the operator to rotate the welding fixture to a comfortable position.

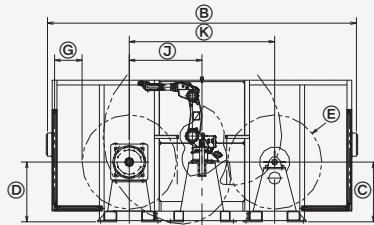
Long Term Support and Reliability

- PerformArc systems have been setting the standard in the welding industry for quality, reliability and productivity since 1996.
- Your PerformArc system is backed by Miller — you can count on us to be there for you today and tomorrow.
- 24/7/365 hotline provides customer service and parts support.

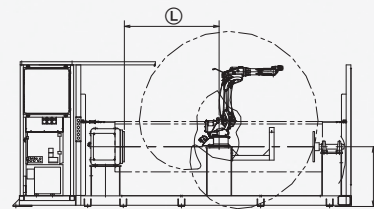
Top View



Side View



Front View



Positioner General Technical Specifications

System features include:	
Model	Panasonic 1000 kg Type II (2) Servo Positioner
Motor type	Panasonic 2 kW AC Digital Servo
Control type	Robot Servo Control
Payload (per side)	1000 kg (2200 lb)
Payload offset (from positioner CL)	Please consult manual
Through hole (for utility pass through)	55 mm

Tooling Area Options

System features include:	
Standard headstock-tailstock width	10' (3048 mm, 120")
Standard rotation diameter	5' (1524 mm, 60")
Optional headstock-tailstock widths	8' (2438 mm, 96") 12' (3658 mm, 144")
Optional rotation diameters	5.5' (1676 mm, 66")
Optional payload	Available upon request

Robot Options

TA-1600WG	TA-1900WG
TA-1600G2	TA-1900G2
TA-1800WG	Dual Robot
TA-1800G2	

Welder Options

Auto-Access 300 (Pulse/CV)	GB2-350 (CV)
Auto-Access 450 (Pulse/CV)	HM3-500 (Pulse/CV)
Auto-Access 675 (Pulse/CV)	WG (Pulse CV)
BP2-300 (TIG)	

Dimensional Specifications*	
Cell width	A 5357 mm (211")
Cell depth	B 4991 mm (196.5")
Cell height	C 2286 mm (90")
Rotation height (from floor)	D 965 mm (38")
Rotation diameter	E 1525 mm (60")
Headstock-tailstock span	F 3048 mm (120")
Distance from rotation to light curtain CL	G 444 mm (17.5")
Light curtain opening	H 4135 mm (162.8")
Robot height (from floor)	I 965 mm (38")
Robot distance (from CL of rotation)	J 1175 mm (46.25")
Positioner CL to positioner CL	K 2350 mm (92.5")
Robot CL to positioner faceplate	L 1525 mm (60")
Controls area width	M 2285 mm (90")
Controls area depth	N 890 mm (35")
Shipping weight main base	3181 kg (7000 lb)
Shipping weight wing pallet	273 kg (600 lb)
Shipping weight outboard base	1150 kg (3400 lb)

*Note: All dimensions are approximate.

Standard Specifications
Fully integrated Miller Welding Automation total solution includes:
Panasonic 6 kg arc welding robot
Panasonic latest generation 64-bit controller with teaching pendant utilizing Windows® CE
Auto-Access® inverter arc welder
Miller 4 drive roll wire feeder (dependent on your application)
Tregaskiss™ 500A air-cooled welding torch
Panasonic high-speed servo positioners Type II 500 kg (2)
Miller designed and manufactured total productivity solution
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, TCP calibration
Standard remote axis jog (unlimited positional jog at operator load station)
General system information:
Integrated safety environment including (4) light curtains, (1) interlocked hinged maintenance door, (2) arc barriers between robot and positioner, robot RT access station monitor and aux axis servo power disconnect at operator station during load/unload
Three piece structure utilizing a common base for the robot and controls section minimizing electrical reconnection at startup
Easy to move (forklift access from front and rear of cell)

Recommended System Options
Smartstart training and installation package
Input power (208, 230, 575 VAC 3 phase — 480 VAC standard)
BCD job select switch
Nozzle reaming station
Panalign torch calibration system
Through arc seam tracking
High voltage touch sensing
Water-cooled torch package
Ethernet card
PC tools (program viewer/editor/program management software)
DTPS (simulation and off line programming software)
WPMGR (Welding Process Manager) protection software
Arc data monitor and oscilloscope software: includes data logging (WG Series Robots only)
Automated electrical stickout control (WG Series Robots only)



MillerWelds.com/automation

Miller Welding Automation | 281 E. Lies Rd. | Carol Stream, IL 60188 | 888-843-7693

253420 June 2011

