

experts in productivity™

Panasonic Factory Solutions Company of America



Dual robot PA362S shown

360S

#### Extremely High Productivity

- High speed “ferris wheel” positioner using three independent servo motors, providing industry leading indexing times which maximizes welding production time.
- Available single point of control dual robot configuration, theoretically doubles production throughput with no additional floorspace required.
- Optional load station jog allows complete load position flexibility, allowing multi-stage loading or tack and finish welding to occur in a common welding fixture.
- Can be coupled with optional Panasonic TAWERS™ robotic solutions for greater production throughput.

#### 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 area above load station permits easy changeover of welding 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.

#### Personal Safety

- L-shaped light curtains at tested penetration distances, interlocked maintenance gate, dual channel safety circuit, two stationary arc flash barriers, main axis sweep monitor and auxiliary axis servo disconnect at operator station during load/unload are included in the safety features.
- Utilizes servo disconnect technology which removes drive power during fixture loading to prevent unexpected motion of the outboard axis.
- Optional 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

- One vendor. A simple statement, but very powerful. Your PerformArc system is pre-engineered by Panasonic, integrates Panasonic robots, welders and servo positioners and is backed by Panasonic, today and tomorrow.
- Proven track record. Panasonic is focused on robotic arc welding. For over 10 years Panasonic PerformArc systems have been setting the standard in the welding industry for quality, reliability and productivity.
- 24/7/365 hotline providing customer service and parts support.

## Dimensional Specifications\*

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

\*Note: All dimensions are approximate

## Standard Specifications

### Fully integrated Panasonic total solution includes:

Panasonic 64Bit 6 kg Arc Welding Robot  
 Panasonic G2 Controller with teaching pendant utilizing Windows® CE  
 Panasonic artificially intelligent inverter arc welder  
 Panasonic wire feeder (dependent on your application)  
 Panasonic 350A air cooled welding torch  
 Panasonic torch alignment gauge  
 Panasonic high speed main indexing servo positioner Panasonic RDV-3000  
 Panasonic high speed outboard servo positioners PanaDice Type II 500 (2)  
 Panasonic designed and manufactured total productivity solution

### System features include:

Integrated operator interface, pedestal mounted for location flexibility  
 Six 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, on-line help function

### General system information:

Integrated safety environment including (2) light curtain sets, (1) interlocked sliding maintenance door, rotating arc barrier between robot and operator, main axis motion monitor and aux axis servo power disconnect at operator station during load/unload  
 Engineered platform system utilizes (2) platforms with quick assembly mechanical and electrical connections minimizing installation time during startup  
 Easy to move (forklift access from the left and right sides of the cell)

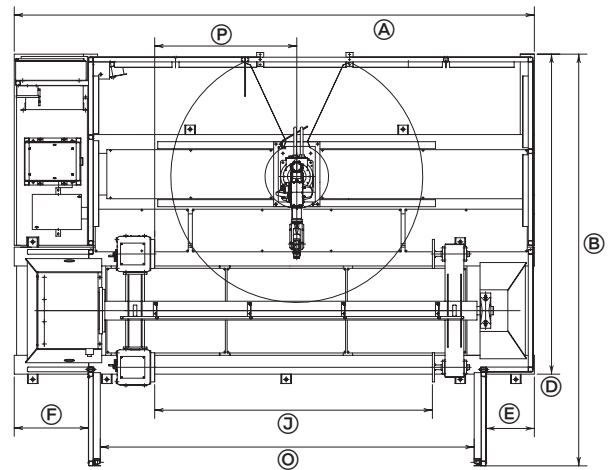
## Robot Options

TA1400WG	TA1800WG
TA1400G2	TA1800G2
TA1600WG	TA1900WG
TA1600G2	TA1900G2
DUAL ROBOT (PA362S)	

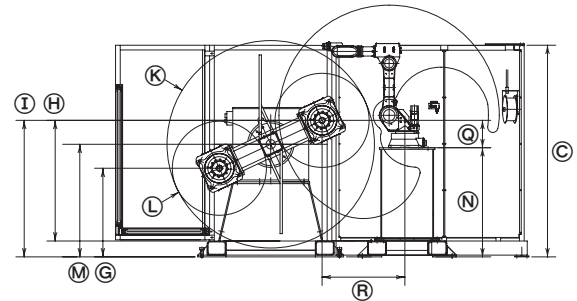
## Welder Options

GB2-350 (CV)	GXP (Pulse/CV)
HM3-350 (Pulse/CV)	WG (Pulse/CV)
HM3-500 (Pulse/CV)	BP2-300 (TIG)
GX (CV)	

## Top View



## Side View



## Recommended System Options

Smartstart training and installation package  
 Input power (208, 230, 575VAC 3 phase—480VAC standard)  
 Nozzle reaming station  
 Remote axis jog (unlimited positional jog at operator load station)  
 Through arc seam tracking  
 High voltage touch sensing  
 Water cooled torch package  
 Ethernet card  
 G2 PC tools (program viewer/editor/program management software)  
 DTSP (simulation and off line programming software)  
 WPMGR (weld process management protection software)  
 Arc data monitor and oscilloscope function: includes data logging (TA\*\*\*\*WG only)  
 Automated electrical stickout control (TA\*\*\*\*WG only)

## Positioner General Technical Specifications

<b>Main sweep axis</b>	
Model	Panasonic RDV-3000
Motor type	Panasonic 3.5kw AC Digital Servo
Control type	Robot Servo Control
Rotation time (180 deg index)	t=3.0 sec
Through hole (for utility pass through)	100 mm (3.9")
<b>Secondary axis (2)</b>	
Model	Panasonic Panadice 500 kg Type II
Motor type	Panasonic 1kw AC Digital Servo
Control type	Robot Servo Control
Payload (per side)	500 kg (1100 lbs)
Payload offset (from positioner CL)	Consult PanaDice Manual
Through hole (for utility pass through)	55 mm (2.16")

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