

Tilt-Rotate Positioners High-Speed Type R Series



Two types available: 300 kg and 500 kg payload

- 1.8 times faster maximum speed compared with the conventional models.
- Smallest-in-class footprint of 780 × 500 mm. (300 kg payload model)
- Easier installation with three selectable cable outlet positions.

Specifications

Name		Positioner unit	
Model		YA-1RJC62	YA-1RJC72
Applicable Robot		Panasonic robots TM/TL series with GIII/WGIII controller	
Payload		300 kg	500 kg
Max. Speed	Rotation	190.0°/s (31 r/min)	165.0°/s (27 r/min)
	Tilt	125.5°/s (20 r/min)	90.0°/s (15 r/min)
Operating Range	Rotation	-36 000 ° to +36 000 ° (with multi-rotation data reset function)	
	Tilt	-135 ° to +135 °	
Allowable Moment	Rotation	323 N•m	392 N•m
	Tilt	882 N•m	1 274 N•m
Position Repeatability		±0.05 mm (R=250 mm)	
Hollow Shaft Diameter		55 mm	
Allowable Welding Current		500 A @ 60 % duty cycle	
Weight		285 kg	
Applicable Welding Process		CO ₂ /MAG/MIG/TIG	
External Axis Controller Type		Internal/External	

Single-axis positioners

Payload: 250/500 kg

Payload: 1000 kg



RJB 12/22



RJB 32

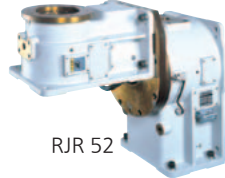
Specifications

Name		Positioner unit		
Model		YA-1RJB12	YA-1RJB22	YA-1RJB32
Applicable Robot		Panasonic robots TM/TL series with GIII/WGIII controller		
Payload		250 kg	500 kg	1 000 kg
Max. Rotational Speed		190°/s (31.6 r/min)	120°/s (20 r/min)	120°/s (20 r/min)
Operating Range		-36 000 ° to +36 000 ° (with multi-rotation data reset function)		
Allowable Torque		196 N•m	490 N•m	1 470 N•m
Allowable Moment		1 470 N•m	1 470 N•m	6 125 N•m
Position Repeatability		±0.05 mm (R=250)		
Hollow Shaft Diameter		55 mm	55 mm	75 mm
Brakes		Provided		
Allowable Welding Current		500 A @ 60 % duty cycle		
Weight		125 kg	255 kg	
Applicable Welding Process		CO ₂ /MAG/MIG/TIG		
External Axis Controller Type		Internal/External	External	

Side mount 2-axis positioners



RJR 42

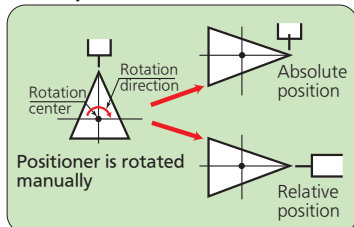


RJR 52

Harmonizer

Simple teaching

Teaching example of complicated workpiece



Easy welding speed settings.

Welding speed can be set directly from robot regardless of pipe diameters. It eliminates complicated calculation and reduces teaching time.

Greatly reduced teaching points. (compared with conventional systems)

Linear, circular interpolations and weaving movement are now available while rotating work with the positioner. This allows easy torch positioning for complicated workpieces and high precision welding with minimum teaching points.

Optimum welding position.

Optimum torch angle for the best bead shape is ensured by specifying the torch position to the workpiece from either absolute or relative position.

Easy system settings.

System can be set on site and adjustable by the user.

DTPS III Desk Top Programming & Simulation system

DTPS is a program simulation software developed exclusively for Panasonic robots. With this software, users can create and edit robot programs and verify robot motion offline.



<Features>

- Useful edit function (batch conversion, shifting, etc.)
- Highly-accurate movement simulation
- 3D graphics
- Identical to robot operation
- Simple CAD function for workpiece shape creation
- Graphic import function (standard)
- Multiple robot control
- Windows XP (SP3 or later), VISTA (SP2 or later), 7



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Process Development



Process verification prior to system installation.

Case Examples:

- New factory weld processing
- Improvement of existing processes
- Develop new welding solutions

Consulting



Professional staff offer technical solutions.

Qualifications:

- Welding coordination personnels (including first class)
- JIS qualified welding operators
- Metal materials inspectors
- International welding license holders

Welding and Robot College



We support development of highly skilled welding operators.

Workshops:

- Robot
- MAG/MIG
- TIG
- Special training



We provide products that are friendly to the environment.

As an earth-friendly company, Panasonic Welding Systems Co., Ltd. discourages the use of hazardous substances in our products. The products of Panasonic Welding Systems Co., Ltd. comply with the European RoHS directive.



Safety precautions

- Before attempting to use any welding product always read the manual to ensure correct use.

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