

MOTOMAN Spot Welding Solutions

MOTOMAN SP Series / YRC1000 Robot Controller



SP Series

SP80



	Max. payload [kg]
	Repeatability [mm]
	Max. working rang
	Temperature [°C]
	Humidity [%]
	Weight [kg]
	Power supply, aver

Controlled by YRC1000

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Specifications SP80	
Controlled axes	6
Max. payload [kg]	80 (88*)
Repeatability [mm]	±0.03
Max. working range R [mm]	2236
Temperature [°C]	0 to +45
Humidity [%]	20 - 80
Weight [kg]	630
Power supply, average [kVA]	4.0

Specifications SP100	
Controlled axes	6
Max. payload [kg]	100 (110*)
Repeatability [mm]	±0.03
Max. working range R [mm]	2236
Temperature [°C]	0 to +45
Humidity [%]	20 - 80
Weight [kg]	660
Power supply, average [kVA]	5.0

Specifications SP165-105

6

105 (120*)

±0.05

3058

0 to +45

20 - 80

1090

5.0

Controlled axes

Max. payload [kg]

Repeatability [mm]

Temperature [°C]

Humidity [%]

Weight [kg]

Max. working range R [mm]

Power supply, average [kVA]

Controlled by YRC1000







SP165



Controlled by
VDOJOO
YRC1000
1101000

SP210

SP235



Specifications SP165	
Controlled axes	6
Max. payload [kg]	165 (180*)
Repeatability [mm]	±0.05
Max. working range R [mm]	2702
Temperature [°C]	0 to +45
Humidity [%]	20 - 80
Weight [kg]	1020
Power supply, average [kVA]	5.0

Specifications SP210	
Controlled axes	6
Max. payload [kg]	210 (225*)
Repeatability [mm]	±0.05
Max. working range R [mm]	2702
Temperature [°C]	0 to +45
Humidity [%]	20 - 80
Weight [kg]	1080
Power supply, average [kVA]	5.0

Specifications SP235	
Controlled axes	6
Max. payload [kg]	235 (250*)
Repeatability [mm]	±0.05
Max. working range R [mm]	2710
Temperature [°C]	0 to +45
Humidity [%]	20 - 80
Weight [kg]	1345
Power supply, average [kVA]	5.0

SP150R / SP185R



Controlled by YRC1000







Spot Welding Guns



Please ask for more details.











4 Spot Welding Solutions

Dresspack

- Spot Welding gun wiring from robot base to wrist 35 mm² power cord, water pipe PUR 12, motor, encoder, signal cables
- Spot Welding connection from robot base to YRC1000 controlle, spot welding timer and water colling supply



Welding Timer

- Spot Welding Middle frequency inverter and welding controller
- Force and Stroke parametrization with robot teach pendant

HARMS WENDE



MATUSCHEK

Automatic Tip Dresser & Tip Changer



The automatic Tip Dresser and Tip Changer, is used in case of a fully automated workstation, where the electrode dressing and electrode change is performed automatically. The electrodes are placed in a magazine next to the dressing unit and the electrodes on the gun are replaced by an automatic extraction and replacement system.



Customer Service and Support.

From the Initial Concept to the Turnkey System.

With more than 40 years of experience in system development and engineering, and wide-ranging expertise in robot technology, Yaskawa offers an all-round package tailored to your needs. Consulting also receives high priority: even if you have only a vague notion of how your workpiece is to be welded, Yaskawa will draw up a concept for you, integrate the required components and present you with a solution that will fire your imagination.



Consulting

• In-process engineering services



Testing

- 3D simulation
- Prototyping and pre-series production on test systems
- Performance of welding trials
- Quality control by macrosections



Training

- Operator training on site or in our Academies
- Welding training



Service

- Maintenance and repair
- Overhauls and refurbishments

Total Customer Support



Yaskawa supports you throughout the entire product lifecycle with service products and services tailored to your needs.

The 360° all around support, the TOTAL CUSTOMER SUPPORT, not only refers to the Yaskawa products and systems but also to your applications and processes.

Through our global service network, Yaskawa is always close to you to ensure your success, because ...

... customer satisfaction is our top priority!

* <u></u>	Process Optimization & Product Modernization
2	Support for Product Application
P	Installation & Implementation
E	Service, Warranty & Maintenance Contracts
	Preventive Maintenance
訊	Training
×	Repair
	Detailed Reporting
P	Spare Parts
	Inventory & Logistics Programm
	Error Analysis & Troubleshooting

YASKAWA GROUP

- AT Yaskawa Austria Schwechat/Wien +43(0)1-707-9324-15
- CZ Yaskawa Czech s.r.o. Rudná u Prahy +420-257-941-718
- DK Yaskawa Danmark Løsning +45 7022 2477
- ES Yaskawa Ibérica, S.L. Viladecans/Barcelona +34-93-6303478
- FR Yaskawa France SARL Le Bignon +33-2-40131919
- Fl Yaskawa Finland Oy Turku +358-(0)-403000600
- GB Yaskawa UK Ltd. Newton Aycliffe +44-330-678-1990
- IT Yaskawa Italia s.r.l. Torino +39-011-9005833
- IL Yaskawa Europe Technology Ltd. Rosh Ha'ayin +972-3-9004114
- LVA Yaskawa Latvia Riga +371-2-2467570
- NL Yaskawa Benelux B.V. Eindhoven +31-40-2895500
- PL Yaskawa Polska Sp. z o.o. Wrocław +48-71-7928670
- SE Yaskawa Nordic AB Torsås +46-480-417-800
- SI Yaskawa Slovenia Ribnica +386-1-8372-410
- TR Yaskawa Turkey Elektrik Ticaret Ltd. Sti. İstanbul +90-216-5273450
- ZA Yaskawa Southern Africa (PTY) Ltd Johannesburg +27-11-6083182

Yaskawa Headquarters

Yaskawa Europe GmbH Robotics Division Yaskawastraße 1 85391 Allershausen, Germany Tel. +49 (0) 8166/90-0 Fax +49 (0) 8166/90-103

robotics@yaskawa.eu www.yaskawa.eu

DISTRIBUTORS

- BG ATRI ROBOTICS Ltd. Stara Zagora +359 899 625 160 Kammarton Bulgaria Ltd. Sofia +359-02-926-6060
- EE RKR Seadmed OÜ Tallinn/Estonia +372-68-35-235
- GR Gizelis Robotics Schimatari Viotias +30-2262057199
- HU Flexman Robotics Kft Budapest +36 1 259 0981
- LT Profibus UAB Panevezys +370-45-518575
- NO Skala Robotech AS Lierstranda +47-32240600
- PT ROBOPLAN Lda Aveiro +351-234 943 900
- RO NORMANDIA S.R.L. Brașov +40 268 549 236

Yaskawa Academy and sales office Frankfurt

Yaskawa Europe GmbH Philipp-Reis-Straße 6 65795 Hattersheim am Main, Germany Tel. +49 (0) 6196/77725-0 Fax +49 (0) 6196/77725-39







All drawing dimensions in mm. Technical data may be subject to change without previous notice. Please request detailed drawings at robotics@yaskawa.eu.

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