

SP235

HIGH-PAYLOAD, LONG REACH

KEY BENEFITS

Single robot-to-controller cable connection enables fast setup

High-speed robot motion reduces air-cut time for spot gun

Flexible wrist motion range simplifies programming of complicated parts

SPECIFICATIONS

235 kg payload with spot harness

250 kg payload without spot harness

2,710 mm horizontal reach

3,490 mm vertical reach

0.05 mm repeatability

APPLICATION

Spot Welding

CONTROLLER

YRC1000



Spot harness not shown

- Powerful, six-axis robot features exceptionally fast axis speeds and acceleration to reduce air-cut time and increase production output.
- Wide wrist motion range eliminates interference and improves application flexibility.
- Slim profile design allows reaching into confined spaces and close proximity placement of robots for high-density workcells.
- Integrated spot harness improves wrist flexibility and reduces downtime.
- Servo gun and DC timer technology optimized for productivity and quality.
- Spot monitoring and waveform graphing helps check and troubleshoot welding conditions.
- Controller connectivity provides simple wiring to spot timers.
- Robot pendant application for programming Medar® and Nadex® brand timers.
- Single power and control cable reduces wiring time and increases work efficiency.
- Spot harness connections
 - Connections from base to upper arm
 - DeviceNet signal and power
 - Connections from base to wrist (gun)
 - Servo motor and encoder
 - Air hose (2) 6.5 mm ID, (1) 8 mm ID
 - Water hose (4) 8 mm ID
 - Weld power (2) 22 mm², (1) 14 mm²
 - Transformer thermostat (3) 0.75 mm²
 - User I/O (9) twisted pair + (1) 0.3 mm²
- Modular robot harness design for improved diagnostics and maintenance.
- Home position data can be saved without battery connection for easy maintenance.
- The SP235 has an IP67-rated wrist and an IP54 body standard.
- Compact YRC controller utilizes the lightweight standard teach pendant with intuitive programming.

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