

The JSR Series SCARA Robot Specification

Model		JSR4403N	JSR4404N
Axis		3 (synchronous control)	4 (synchronous control)
Arm Length (mm)	J1 Arm	260	
	J2 Arm	180	
	J1 + J2	440	
Operation Range	J1 Arm (°)	±90	
	J2 Arm (°)	±150	
	Z-Axis(mm)	100	
	R-Axis (°)	-	±360
Maximum Speed (PTP)*1	J1 and J2 Combined (mm/sec)	1,450 (when carrying a 1kg workpiece)	
	Z-Axis (mm/sec)	320	
	R-Axis (°)	-	1000°/sec
Maximum Speed (CP)*1 (mm/sec)		750	
Repeatability *2 (mm)	X-and Y-Axis	±0.02	
	Z-Axis	±0.01	
	R-Axis	-	±0.02°
Maximum Portable Weight (kg)		5	
Machine Weight (kg)		39	40
Programme Capacity		255 programs	
Data Memory Capacity *3		Maximum 30,000 points	
Simple Sequencer		Maximum 1,000 steps	
Drive Method		5-phase pulse stepping motor (with encoder)	
Control Method		PTP, CP methods	
Interpolating Function		3 dimension liner & arc interpolation	
Teaching Method		Direct teaching, Remote teaching (JOG), Manual data input (MDI)	

JSR Series Specifications cont.

External Serial Interface *4	RS-422 1 ch (for teaching pendant) RS-232C 1ch (for PC: COM1) RS-232C 2ch (for external devices: COM2, COM3)
External Input/Output	I/O-SYS Input: 17 / Output: 16 I/O-1 Input: 8 / Output: 8 (4-relay contact)
Power Supply	AC90 - 132V/AC180 - 250V (Single Phase)
Power Consumption	200VA
Ambient Temperature	0 - 40°C
Relative Humidity	20 - 90% (non condensing)
Tool Wiring and Piping	15 wires for signals, 4 air pipes (Φ 4mm)

- *1 Maximum speed cannot be achieved under maximum portable weight setting.
- *2 Repeatability was measured at a constant temperature, so absolute precision is not guaranteed.
- *3 The point data capacity will be reduced if the additional function data setting/point job data/sequencer data increases, due to the shared data storage area.
- *4 NPN/PNP can be chosed before shipment.

Specifications are subject to change without prior notice due to continuing product improvements.