

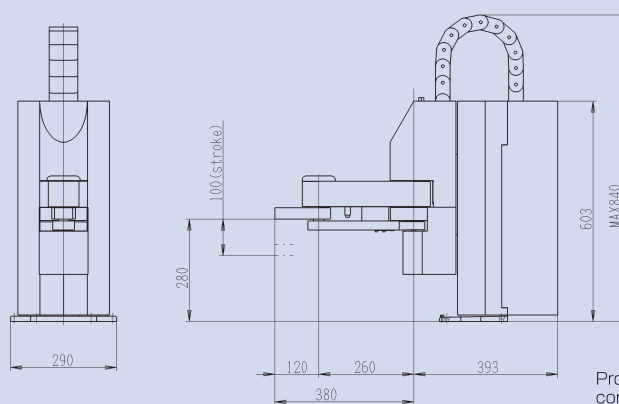
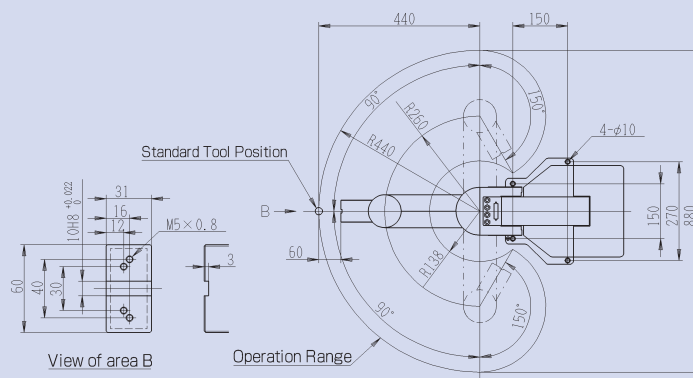
SCARA Robot
Moving Area
JSR4400N
Series



External Dimensions

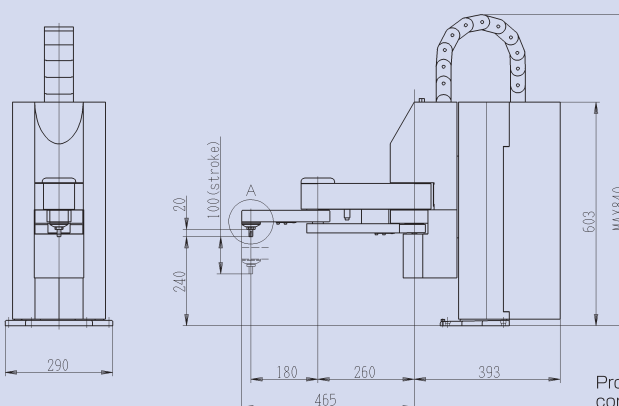
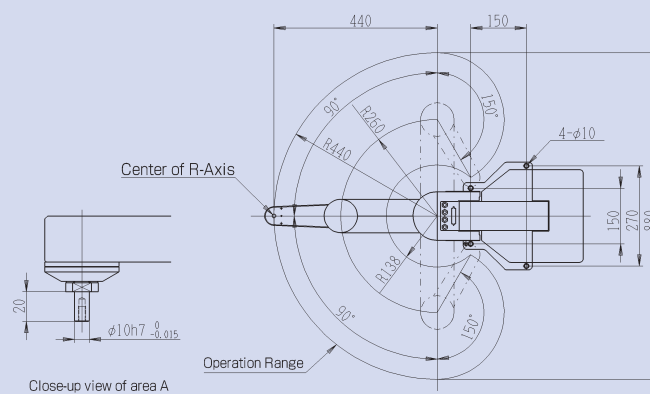
3 axes

JSR4403N



4 axes

JSR4404N



■ Specifications

Item		Model	JSR4403N	JSR4404N
Axis			3 (synchronous control)	4 (synchronous control)
Arm Length	J1 Arm (mm)		260	260
	J2 Arm (mm)		180	180
	J1 + J2 (mm)		440	440
Operation Range	J1 Arm (°)		±90	±90
	J2 Arm (°)		±150	±150
	Z-Axis (mm)		100	100
	R-Axis (°)		—	±360
Maximum Portable Weight (kg)			5	5
Acceptable Moment of Inertia (kg·cm ²)			—	90
Maximum Speed (PTP) ^{*1}	J1 and J2 combined (mm/sec)		1,450 (when carrying a 1 kg workpiece)	1,450 (when carrying a 1 kg workpiece)
	Z-Axis (mm/sec)		320	320
	R-Axis (°/sec)		—	1,000
Maximum Speed (CP) ^{*1} (mm/sec)			750	750
Repeatability ^{*2}	X- and Y- Axis (mm)		±0.02	±0.02
	Z-Axis (mm)		±0.01	±0.01
	R-Axis (°)		—	±0.02
Machine Weight (kg)			39	40
Drive Method			5-phase pulse motor (positioning watch by encoder)	
Control Method			PTP (Point To Point) control, CP (Continuous Path) control	
Interpolating Function			3-dimensional line and arc interpolating	
Teaching Method			Remote teaching (JOG) / Manual Data Input (MDI) / Direct teaching	
Teaching System			JANOME's original software JR C-Points: Simple and broad-use teaching system ● Simple: Easy teaching just by registering positions and parameters Optional system programs are available for basic operations and various applications ● Broad-use: User-oriented programming such as I/O control, teaching by point job	
Teaching Pattern			● Programming by teaching pendant (optional) ● Off line teaching using optional JR C-Points (PC software) via PC ● On line teaching using optional JR C-Points (PC software) via PC	
Program Capacity			255 programs	
Data Memory Capacity ^{*3}			Maximum 30,000 points	
Simple Sequencer			Maximum 1,000 steps	
Interface for Interlock			For area sensor and interlock signals	
External Serial Interface			RS422 1ch (for teaching pendant) RS232C 1ch (for PC: COM1) RS232C 2ch (for external devices: COM2, COM3)	
External Input/Output ^{*4}			I/O-SYS Input: 17 / output: 16 I/O-1 Input: 8 / Output: 8 (4-relay contact)	
Tool Wiring and Piping			15 wires for signals, 4 air pipes: Φ4	
Power Supply			AC90~132V / AC180~250V (single phase)	
Power Capacity			200VA	
Ambient Temperature			0~40°C	
Relative Humidity			20~90% (non condensing)	
Storage Temperature			-10~+60°C	

*1: Maximum speed cannot be achieved under the 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 chosen before shipment.

● JANOME original software JR C-Points is compatible with Windows® 2000/XP. (Windows® is a registered trademark of Microsoft Corporation)

● The specifications may be modified without prior notice to improve quality.

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