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Epson RS4C SCARA Robot



Maximize working volume and minimize footprint.

Minimize the workcell space requirement with an optimized robot footprint — unique "zero-footprint" ceiling-mount design enables access to the area under the arm, eliminating any dead space and allowing for a greater working volume versus traditional SCARA robots with comparable reach; 350 mm reach available

High performance and flexibility — high throughput with max-rated payloads and multiple arm configurations to accomplish the most demanding assembly needs; unique geometry allows for simple straight-line movements through the center of the robot workcell and easy transitions between lefty and righty configurations

Fast cycle times — high acceleration, smooth motion and fast settling times help maximize throughput with proprietary GYROPLUS™ vibration reduction system, plus no ringing or overshoot[1]

Ultimate ease of use — intuitive and feature-packed Epson RC+® development software helps create powerful solutions with a simple user interface, integrated debugger and advanced 3D simulator

Designed for reliability — innovative, extremely compact design handles max-rated workloads at fast speeds and high precision within a small footprint

Low total cost of ownership — includes features that help reduce support and installation costs: batteryless encoders, a built-in Ethernet cable, Epson RC+ software and a rich suite of safety features

Accelerate the development of workcell applications — fully integrated, optional solutions include vision guidance, part feeding, force guidance, conveyor tracking and fieldbus; Epson RC+ Solutions Platform allows for seamless expansion of third-party solutions, benefiting developers and end users

Increase user interaction without sacrificing productivity — SafeSense™ technology's standard and advanced safety features, with a proper risk assessment, help allow for increased productivity and worker protection while potentially minimizing workcell footprint due to the reduction of physical barriers

Built for demanding environments — Standard and Cleanroom (ISO3)[2]/ ESD models available

Model Name		RS4C SCARA Robot
Model Number		RS4C
Mounting Type		Ceiling
Arm Length	Joint #1 Plus Joint #2	350 mm
Repeatability	Joints #1, #2	±0.01 mm
	Joint #3	±0.01 mm
	Joint #4	±0.01 deg
Payload	Rated	1.0 kg
	Max.	4.0 kg
Standard Cycle Time[3]		0.322 sec
Max. Motion Range	Joint #1	±270 deg
	Joint #2	±225 deg
	Joint #3 Standard	130 mm
	Joint #3 Clean & ESD	100 mm
	Joint #4	±720 deg
Joint #4 Allowable Moment of Inertia	Rated	0.005 kg·m^2
	Max.	0.050 kg·m^2
Joint #3 Downforce		150 N
User Electric Lines		15-pin (D-sub), RJ45
User Pneumatic Lines		ø4 mm x 1, ø6 mm x 2
Power		AC 200 V – 240 V, single-phase
Power Consumption		1.2 kVA
Power Cable Length		3 m/5 m/10 m (straight and angled cable end options)
Weight (Cables Not Included)		35 lb (16 kg)
Applicable Controller		RC800A
Installation Environments		Standard and Cleanroom (ISO3)[2]/ESD
Safety Standards		TUV Certified to meet ISO 10218-1, UL 1740, CSA Z434, ISO 13849
What's Included		RS4C robot and RC800A controller, E-Stop unit with cable and connector, cable with flying leads for controller E-stop/Safety connection, connector set (I/O, hand I/O and safety circuit connectors)

Options		
	Vision Guide	Available
	IntelliFlex™ Feeders	Available
	Force Guide	Available
	Conveyor Tracking	Available
	Epson RC+ API 8.0	R19NZ901JK
	GUI Builder 8.0	R19NZ901JQ
	Fieldbus Master	Available
	Fieldbus Slave (EtherNet/IP, EtherCAT, Profinet, Profibus, CC-Link)	Available
	External Control Point (ECP) 8.0	R19NZ901JL
	Teach Pendant	Available
	Epson OPC UA for Robotics	R19NZ901JZ
	Bellows Kit	Available

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1 When operated within specifications. | **2** Complies with ISO Class 3 (ISO 14644-1) and FED-STD-209D Class 1 cleanroom standards. | **3** Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) with 1 kg payload (path coordinates optimized for maximum speed).

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