

Epson RS6C 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; 550 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 overshoot¹

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		RS6C SCARA Robot	
Model Number		RS6C	
Mounting Type		Ceiling	
Arm Length	Joint #1 Plus Joint #2	550 mm	
Repeatability	Joint #1, #2	±0.015 mm	
	Joint #3	±0.01 mm	
	Joint #4	±0.01 deg	
Payload	Rated	2.0 kg	
	Max.	6.0 kg	
Standard Cycle Time ³	Standard	0.373 sec	
	Clean & ESD	0.380 sec	
Max. Motion Range	Joint #1	±270 deg	
	Joint #2	±225 deg	
	Joint #3 Standard	200 mm	
	Joint #3 Clean & ESD	150 mm	
	Joint #4	±720 deg	
Joint #4 Allowable Moment of Inertia	Rated	0.01 kg·m ²	
	Max.	0.12 kg·m ²	
Joint #3 Downforce		150 N	
User Electric Lines		15-pin (D-sub), RJ45 x 2	
User Pneumatic Lines		ø4 mm x 2, ø6 mm x 2	
Power		AC 200 V – 240 V, single-phase	
Power Consumption		1.5 kVA	
Power Cable Length		3 m/5 m/10 m (straight and angled cable end options)	
Weight (Cables Not Included)		44 lb (20 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		RS6C 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

Support

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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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