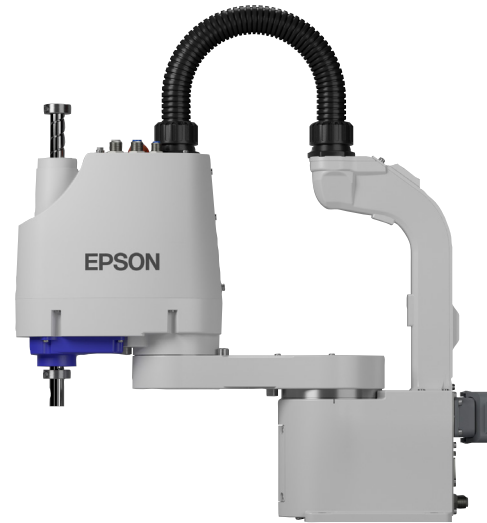


# Epson® GX4C SCARA Robot



**Epson GX—taking SCARA performance to the next level.**

**Ultra high performance and flexibility** — high throughput with max-rated payloads and multiple arm configurations to accomplish the most demanding assembly needs

**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<sup>1</sup>

**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, 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, parts 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 machine footprint due to the reduction of physical barriers

**Minimize the workcell space requirement with an optimized robot footprint** — multiple mount and cable exit options; 250 mm, 300 mm or 350 mm reach available; unique curved arm (350 mm) option maximizes work envelope

**Built for demanding environments** — Standard, Cleanroom (ISO 3)<sup>2</sup> and ESD, and standalone ESD models available

Model Name		GX4C SCARA Robot					
Model Number		GX4-C251x		GX4-C301x		GX4-C351x	
Mounting Type		Tabletop		Tabletop		Multiple	
Arm Length		Joint #1 Plus Joint #2 250 mm		300 mm		350 mm	
Repeatability		Joints #1 - #2 ±0.008 mm		+/- 0.01 mm			
		Joint #3		±0.01 mm			
		Joint #4		±0.005 deg			
Payload		Rated		2 kg			
		Max.		4 kg			
Standard Cycle Time <sup>3</sup>		0.33 sec		0.34 sec		0.35 sec	
Max. Motion Range	Straight	Joint #1		±140 deg		±140 deg	
		Joint #2 Std		±141 deg		±142 deg	
		Joint #2 Clean		±137 deg		±141 deg	
	Curved	Joint #1 Right Hand				±115 deg	
		Joint #1 Left Hand				±142 deg	
		Joint #2 Right Hand Std & ESD				±135 deg	
		Joint #2 Right Hand Clean				±142 deg	
		Joint #2 Left Hand Std & ESD				±142 deg	
	All Models	Joint #2 Left Hand Clean				±142 deg	
		Joint #3 Std & ESD				150 mm	
		Joint #3 Clean				120 mm	
		Joint #4				±360 deg	
Joint #4 Allowable Moment of Inertia <sup>4</sup>		Rated		0.005 kg·m <sup>2</sup>			
		Max.		0.05 kg·m <sup>2</sup>			
Joint #3 Downforce				150 N			
User Electric Lines				15-pin (D-sub), 8-pin (RJ45 Cat5e)			
User Pneumatic Lines				ø4 mm x1, ø6 mm x2			
Brakes				Z axis only			
Power				AC 200 V – 240 V (single phase)			
Power Consumption				1.2 kVa			
Power Cable Length (Cables Ordered Separately)				3 m/5 m/10 m (straight and angled cable end options)			
Bottom Cable Exit Option (Tabletop Only)		Available		Available		-	
Weight (Cables Not Included)		15 kg, 33 lb		15 kg, 33 lb		17 kg, 38 lb	
Applicable Controller				RC800A			
Installation Environment				Standard/ESD/Cleanroom ISO Class 3 <sup>2</sup> with ESD			
Safety Standards				TUV Certified to meet ISO 10218-1, UL 1740, CSA Z434, ISO 13849			
What's Included				GX4C 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			
		Arm Length Calibration		R19NZ901JW			
		Bellows Kit (Standard and Long Z)		Available			

## Support

Customer Service  
(562) 290-5920  
service@robots.epson.com

Applications Support  
(562) 290-5930  
applications@robots.epson.com

Sales Inquiries  
(562) 290-5997  
info@robots.epson.com

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 2 kg payload for tabletop model boost mode (path coordinates optimized for maximum speed). | 4 When payload center of gravity is aligned with Joint #4; if not aligned with Joint #4, set parameters using INERTIA command.

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Epson America, Inc.  
3131 Katella Ave., Los Alamitos, CA 90720

Epson Canada Limited  
185 Renfrew Drive, Markham, Ontario L3R 6G3

[www.epson.com](http://www.epson.com)  
[www.epson.ca](http://www.epson.ca)

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