

Epson GX1C SCARA Robot



Epson GX—taking SCARA performance to the next level.

Ultra high performance and flexibility — high throughput and precision 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

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 workcell footprint due to the reduction of physical barriers

Minimize the workcell space requirement with an optimized robot footprint — unique compact design; 175 mm or 225 mm reach available

Built for demanding environments — Standard model and Cleanroom (ISO 3)¹ and ESD model available

World-class service and support — with four decades of automation experience, Epson provides support for your automation needs through its dedicated application and service teams

Model Name		GX1C SCARA Robot	
Model Number		GX1-C17x	GX1-C22x
Mounting Type		Tabletop	
Arm Length	Joint #1 Plus Joint #2	175 mm	225 mm
Repeatability	Joints #1 - #2	±0.005 mm	±0.008 mm
	Joint #3	±0.01 mm	
	Joint #4	±0.01°	
Payload	Rated	0.5 kg	
	Max.	1.0 kg	
Standard Cycle Time		0.292 sec	0.288 sec
Max. Motion Range	Joint #1	±125 deg	
	Joint #2 Std	±140 deg	±152 deg
	Joint #2 Clean & ESD	±140 deg	±149 deg
	Joint #3 Std	100 mm	
	Joint #3 Clean & ESD	80 mm	
	Joint #4	±360 deg	
Joint #4 Allowable Moment of Inertia	Rated	0.0003 kg·m ²	
	Max.	0.0004 kg·m ²	
Joint #3 Downforce		50 N	
User Electric Lines		15-pin (D-sub), 9-pin (D-sub)	
User Pneumatic Lines		ø4 mm x 1, ø6 mm x1	
Brakes		Z-axis only	
Power		AC 200 V – 240 V (single phase)	
Power Consumption		0.5 kVA	
Power/Signal Cable Length		3 m/5 m/10 m	
Weight (Cables Not Included)		18 lb (8 kg)	
Applicable Controller		RC800A	
Installation Environment		Standard/Cleanroom ISO3 ⁺ & ESD	
Safety Standards		TUV Certified to meet ISO 10218-1, UL 1740, CSA Z434, ISO 13849	
What's Included		GX1C 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
		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