

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 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, 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)² 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			250 mm		300 mm		350 mm				
Repeatability			Joints #1 - #2		±0.008 mm		±0.001 mm				
			Joint #3		±0.01 mm						
			Joint #4		±0.005 deg						
Payload			Rated		2 kg						
			Max.		4 kg						
Standard Cycle Time ³			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		±140 deg	
				Joint #1 Left Hand				±135 deg		±120 deg	
				Joint #2 Right Hand Std & ESD						±142 deg	
				Joint #2 Right Hand Clean							
				Joint #2 Left Hand Std & ESD							
				Joint #2 Left Hand Clean							
			All Models	Joint #3 Std & ESD		150 mm					
				Joint #3 Clean		120 mm					
				Joint #4		±360 deg					
			Joint #4 Allowable Moment of Inertia ⁴			Rated		0.005 kg·m ²			
						Max.		0.05 kg·m ²			
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 ² 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

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.

Contact: