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[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, 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	Tabletop	Multiple
Arm Length	Joint #1 Plus Joint #2	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	±115 deg	±140 deg	±120 deg
	Joint #2 Std	±141 deg	±142 deg	±135 deg	±142 deg	
	Joint #2 Clean	±137 deg	±141 deg			
Max. Motion Range — Curved	Joint #1 Right Hand	-			-110 ~ 165 deg	-
	Joint #1 Left Hand				-165 ~ 110 deg	
	Joint #2 Right Hand Std & ESD				-120 ~ 165 deg	
	Joint #2 Right Hand Clean				-120 ~ 160 deg	
	Joint #2 Left Hand Std & ESD				-165 ~ 120 deg	
	Joint #2 Left Hand Clean				-160 ~ 120 deg	
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·m²				
	Max.	0.05 kg·m²				
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	-	Available	-
Weight (Cables Not Included)		15 kg, 33 lb	15 kg, 33 lb	17 kg, 38 lb	16 kg, 35 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

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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 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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