EPSON®

Epson® GX10C
SCARA Robot

Epson GX—taking SCARA performance to the next level.

Ultra high performance and flexibility — high throughput with heavy 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 heavy 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; 650 mm or 850 mm reach available

Built for demanding environments — Standard, Cleanroom (ISO 3)[2] and ESD, and Protected IP65 models available

Model Name		GX10C SCARA Robot					
Model Number		GX10-C65x			GX10-C85x		
Mounting Type		Tabletop	Ceiling	Wall	Tabletop	Ceiling	Wall
Arm Length	Joint #1 Plus Joint #2	650 mm			850 mm		
Repeatability	Joints #1 - #2	±0.025 mm					
	Joint #3	±0.010 mm					
	Joint #4	±0.005 deg					
Payload	Rated	5 kg					
	Max.	10 kg					
Standard Cycle Time[3]		0.34 sec			0.37 sec		
Max. Motion Range	Joint #1	±152 deg	±107 deg		±152 deg		±107 deg
	Joint #2 Std	±152.5 deg	±130 deg		±152.5 deg		
	Joint #2 Clean & Protected				Z: 0~-360 mm ± 152.5 deg Z: -360~-390 mm ± 151 deg		
	Joint #3 Std	180 mm/420 mm					
	Joint #3 Clean	150 mm/390 mm					
	Joint #4	±360 deg					
Joint #4 Allowable Moment of Inertia[4]	Rated	0.02 kg·m²					
	Max.	0.25 kg·m²					
Joint #3 Downforce		250 N					
User Electric Lines		15-pin (D-sub), 9-pin (D-sub)					
User Pneumatic Lines		ø4 mm x2, ø6 mm x2					
Brakes		Joint #3 and Joint #4					
Power		AC 200 V - 240 V (single phase)					
Power Consumption		2.5 kVa					
Power Cable Length		3 m/5 m/10 m (straight and angled cable end options)					
Weight (Cables Not Included)		46 kg, 102 lb	51 kg, 112 lb		49 kg, 108 lb		53 kg, 117 lb
Applicable Controller		RC800A					
Installation Environment		Standard/Cleanroom ISO3[2] & ESD/Protected					
Safety Standards		TUV Certified to meet ISO 10218-1, UL 1740, CSA Z434, ISO 13849					
What's Included		GX10C 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: