

# 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<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 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)<sup>2</sup> 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		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 <sup>3</sup>		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 <sup>4</sup>	Rated				0.02 kg·m <sup>2</sup>		
	Max.				0.25 kg·m <sup>2</sup>		
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 <sup>2</sup> & 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

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

<sup>1</sup> When operated within specifications. | <sup>2</sup> Complies with ISO Class 3 (ISO 14644-1) and FED-STD-209D Class 1 cleanroom standards. | <sup>3</sup> 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). | <sup>4</sup> 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**  
**www.epson.ca**

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### Contact: