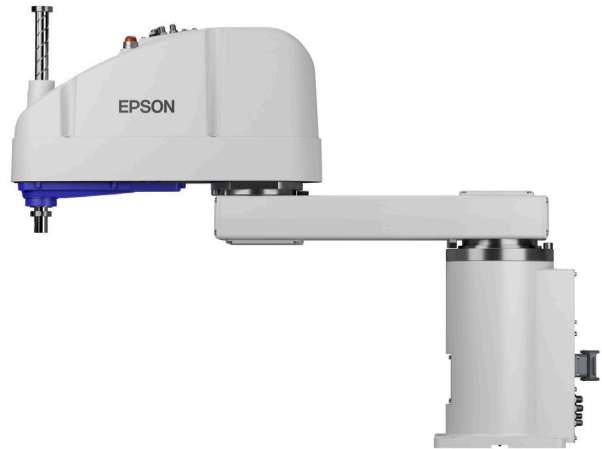


Epson® GX20C SCARA Robot



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 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 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; 850 mm or 1,000 mm reach available

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

Model Name		GX20C SCARA Robot					
Model Number		GX20-C85x			GX20-CA0x		
Mounting Type		Tabletop	Ceiling	Wall	Tabletop	Ceiling	Wall
Arm Length	Joint #1 Plus Joint #2	850 mm			1,000 mm		
Repeatability	Joints #1 - #2				±0.025 mm		
	Joint #3				±0.010 mm		
	Joint #4				±0.005 deg		
Payload	Rated				10 kg		
	Max.				20 kg		
Standard Cycle Time ³		0.37 sec			0.42 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				0.05 kg·m ²		
	Max.				0.45 kg·m ²		
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)		49 kg, 108 lb		53 kg, 117 lb	50 kg, 110 lb		55 kg, 121 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					GX20C 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: