

Epson® GX8C 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; 450 mm, 550 mm or 650 mm reach available

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

Model Name		GX8C SCARA Robot								
Model Number		GX8-C45x			GX8-C55x			GX8-B65x		
Mounting Type		Tabletop	Ceiling	Wall	Tabletop	Ceiling	Wall	Tabletop	Ceiling	Wall
Arm Length		450 mm			550 mm			650 mm		
Repeatability	Joint #1 Plus Joint #2									
	Joints #1 - #2	±0.015 mm								
	Joint #3	±0.010 mm								
Payload	Joint #4	±0.005 deg								
	Rated	4 kg								
	Max.	8 kg								
Standard Cycle Time³		0.28 sec			0.30 sec			0.33 sec		
Max. Motion Range	Joint #1	±152 deg	±105 deg	±105 deg	±152 deg	±152 deg	±135 deg	±152 deg	±152 deg	±148 deg
	Joint #2 Std & ESD	Z: 0~-270 mm ±147.5 deg Z: -270~-330 mm ±145 deg	±125 deg		±147.5 deg			±147.5 deg		
	Joint #2 Clean/Protected	Z: 0~-240 mm ±147.5 deg Z: -240~-300 mm ±137.5 deg								
	Joint #3 Std & ESD	200 mm/330 mm								
	Joint #3 Clean/Protected	170 mm/300 mm								
	Joint #4	±360 deg								
Joint #4 Allowable Moment of Inertia⁴	Rated	0.01 kg·m²								
	Max.	0.16 kg·m²								
Joint #3 Downforce		150 N								
User Electric Lines		15-pin (D-sub), 9-pin (D-sub), 8-pin (RJ45 Cat5e)								
User Pneumatic Lines		ø4 mm x2, ø6 mm x2								
Brakes		Z axis only								
Power		AC 200 V – 240 V (single phase)								
Power Consumption		2.2 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)		33 kg, 73 lb		35 kg, 77 lb	34 kg, 75 lb		36 kg, 79 lb	35 kg, 77 lb		37 kg, 82 lb
Applicable Controller		RC800A								
Installation Environment		Standard/ESD/Cleanroom ISO Class 3² with ESD/Protected IP65								
Safety Standards		TUV Certified to meet ISO 10218-1, UL 1740, CSA Z434, ISO 13849								
What's Included		GX8C 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: