

Epson® GX8B SCARA Robot



Epson GX8-Series. Taking SCARA robot performance to the next level.

Ultra high performance and flexibility — high throughput with heavy payloads, with multiple arm configurations to accomplish the most demanding tasks with leading-edge precision

Unique high-power-density SCARA — innovative, compact design handles heavy workloads at fast speeds, all in a small footprint

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

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

Low total cost of ownership — includes battery-less encoders, a built-in Ethernet cable and Epson RC+ software with no recurring license fee; rich suite of safety features included with RC700E controller

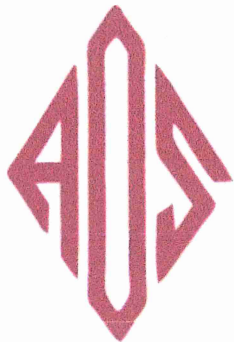
SafeSense™ technology — standard and advanced features can allow for increased productivity and worker safety while potentially minimizing machine footprint due to the reduction of physical barriers

Optimized footprint — table, wall- and ceiling-mount options, as well as cable bottom exit option; 450 mm, 550 mm or 650 mm reach available; longer Z axis available on all models

Built for demanding environments — Standard, Cleanroom (ISO3)¹ and ESD, Protected IP65, and new standalone ESD models available

Advanced integrated options — Vision Guidance, Parts Feeding, Force Guidance, Conveyor Tracking, Fieldbus, API.NET and Arm Length Calibration

Model Name		GX8B SCARA Robot									
Model Number		GX8-B45x			GX8-B55x			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	± 0.015 mm									
	Joints #1 - #2	± 0.010 mm									
	Joint #3	± 0.005 deg									
Payload	Rated	4 kg									
	Max.	8 kg									
Standard Cycle Time ²		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									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 Inertia ³	Rated	0.01 kg·m ²									
	Max.	0.16 kg·m ²									
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 (flexible, 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		RC700E									
Installation Environment		Standard/ESD/Cleanroom ISO Class 3 ¹ with ESD/Protected IP65									
Safety Standards		ISO 10218-1, UL 1740, CSA Z434, ISO 13849									
What's Included		GX8B robot and RC700E controller with safety board, Epson RC+ software, E-Stop unit with cable, connector set (I/O, hand I/O and safety circuit connectors)									
Options											
		Vision Guide CV2			Available						
		IntelliFlex™			Available						
		Force Guidance			Available						
		Conveyor Tracking Kit			R12NZ900AA						
		Euromap 67 Interface			R12NZ90104						
		Epson RC+ 7.0 API			R12NZ920AE						
		GUI Builder 7.0			R12NZ920AH						
		Fieldbus Master			Available						
		Fieldbus Slave (EtherNet/IP, EtherCat, Profinet, PROFIBUS, CC-Link)			Available						
		External Control Point (ECP) Option			R12NZ920AF						
		TP3 - Teach Pendant			R12NZ00N3						
		Epson OPC UA for Robots			R19NZ901CE						
		Arm Length Calibration			R19NZ901AD						
		Bellows Kit (Standard and Long Z)			Available						
		GX8B ISO Tool Adapter			R12NZ901C2						
		GX8B Camera Mounting Bracket			R12NZ901C5						
		GX8B External Wiring Kit (Table or Wall/Ceiling)			Available						



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