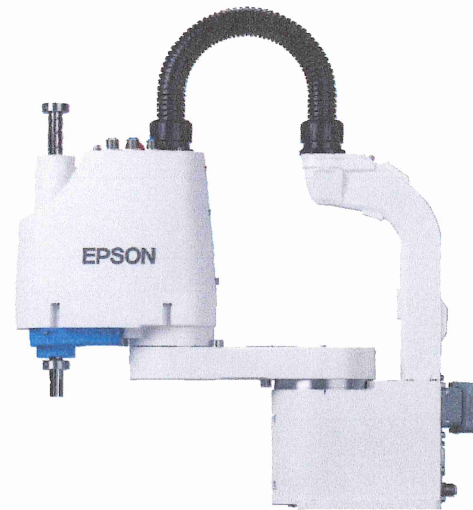


## Epson® GX4B SCARA Robot



**Epson GX4-Series. Taking SCARA robot performance to the next level.**

**Ultra high performance and flexibility** — high throughput with large payloads, with multiple arm configurations to accomplish the most demanding high-precision, small-parts assembly needs

**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

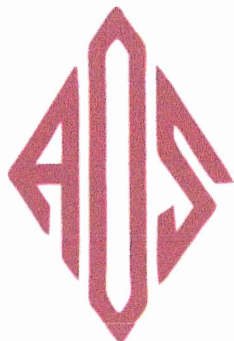
**SafeSense™ technology** — standard and advanced features can allow for increased productivity and worker safety while potentially minimizing machine footprint due to the reduction of physical barriers

**Optimized footprint** — multiple mount and cable bottom exit options; 250 mm, 300 mm or 350 mm reach available; unique curved arm (350 mm) option maximizes work envelope

**Built for demanding environments** — Standard, Cleanroom (ISO3)<sup>1</sup> and ESD, 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		GX4B SCARA Robot																																				
Model Number		GX4-B251x	GX4-B301x		GX4-B351x																																	
Mounting Type		Tabletop	Tabletop	Multiple	Tabletop	Multiple																																
Arm Length		Joint #1 Plus Joint #2	250 mm	300 mm	350 mm																																	
Repeatability		Joints #1 - #2	± 0.008 mm	± 0.010 mm																																		
		Joint #3	± 0.01 mm																																			
		Joint #4	± 0.005 deg																																			
Payload		Rated	2 kg																																			
		Max.	4 kg																																			
Standard Cycle Time²		0.33 sec	0.34 sec		0.35 sec																																	
Max. Motion Range	Straight	Joint #1	± 140 deg	± 140 deg	± 115 deg	± 140 deg ± 120 deg																																
		Joint #2 Std	± 141 deg	± 142 deg	± 135 deg	± 142 deg																																
		Joint #2 Clean	± 137 deg	± 141 deg																																		
	Curved	Joint #1 Right Hand					-110 ~ 165 deg																															
		Joint #1 Left Hand					-165 ~ 110 deg																															
		Joint #2 Right Hand Std & ESD					-120 ~ 165 deg																															
		Joint #2 Right Hand Clean					-120 ~ 160 deg																															
		Joint #2 Left Hand Std & ESD					-165 ~ 120 deg																															
	All Models	Joint #2 Left Hand Clean					-160 ~ 120 deg																															
		Joint #3 Std & ESD					150 mm																															
			Joint #3 Clean	120 mm																																		
			Joint #4	± 360 deg																																		
Joint #4 Allowable Moment of Inertia³		Rated	0.005 kg-m²																																			
		Max.	0.05 kg-m²																																			
Joint #3 Downforce		150 N																																				
User Electric Lines		15-pin (D-sub), 8-pin (RJ45 Cat5e)																																				
User Pneumatic Lines		ø4 mm x1, ø6 mm x2																																				
Brakes		Z axis only																																				
Power		AC 200 V – 240 V (single phase)																																				
Power Consumption		1.2 kWa																																				
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)		15 kg, 33 lb	15 kg, 33 lb	17 kg, 38 lb	16 kg, 35 lb	17 kg, 38 lb																																
Applicable Controller		RC700E																																				
Installation Environment		Standard/ESD/Cleanroom ISO Class 3¹ with ESD																																				
Safety Standards		TUV Certified to meet ISO 10218-1, UL 1740, CSA 2434, ISO 13849																																				
What's Included		GX4B robot and RC700E controller with safety board, Epson RC+ software, E-Stop unit with cable, connector set (I/O and safety circuit connectors)																																				
Options		<table border="1"> <tr><td>Vision Guide CV2</td><td>Available</td></tr> <tr><td>IntelliFlex™</td><td>Available</td></tr> <tr><td>Force Guidance</td><td>Available</td></tr> <tr><td>Conveyor Tracking Kit</td><td>R12NZ900AA</td></tr> <tr><td>Euromap 67 Interface</td><td>R12NZ90104</td></tr> <tr><td>Epson RC+ 7.0 API</td><td>R12NZ920AE</td></tr> <tr><td>GUI Builder 7.0</td><td>R12NZ920AH</td></tr> <tr><td>Fieldbus Master</td><td>Available</td></tr> <tr><td>Fieldbus Slave (EtherNet/IP, EtherCat, Profinet, PROFIBUS)</td><td>Available</td></tr> <tr><td>External Control Point (ECP) Option</td><td>R12NZ920AF</td></tr> <tr><td>TP3 – Teach Pendant</td><td>R12NZ900N3</td></tr> <tr><td>Epson OPC UA for Robots</td><td>R19NZ901CE</td></tr> <tr><td>Arm Length Calibration</td><td>R19NZ901AD</td></tr> <tr><td>Bellows Kit</td><td>R12NZ901C7</td></tr> <tr><td>GX4B ISO Tool Adapter</td><td>R12NZ901C1</td></tr> <tr><td>GX4B Camera Mounting Bracket</td><td>R12NZ901C4</td></tr> </table>					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)	Available	External Control Point (ECP) Option	R12NZ920AF	TP3 – Teach Pendant	R12NZ900N3	Epson OPC UA for Robots	R19NZ901CE	Arm Length Calibration	R19NZ901AD	Bellows Kit	R12NZ901C7	GX4B ISO Tool Adapter	R12NZ901C1	GX4B Camera Mounting Bracket	R12NZ901C4
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