EPSON®
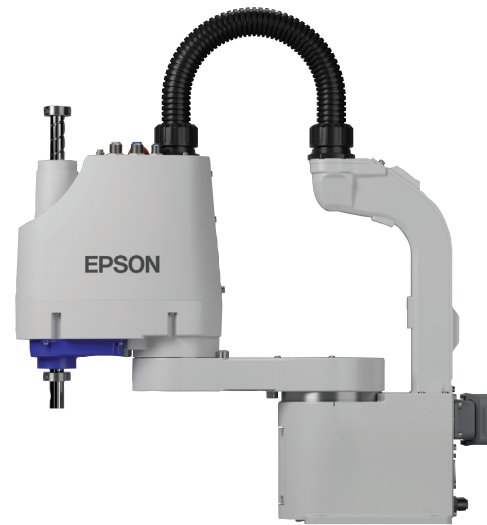
Epson® GX4B SCARA Robot

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)[1] 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

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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 Time[2]		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
	Straight — Joint #2 Std	± 141 deg	± 142 deg	± 135 deg	± 142 deg	
	Straight — Joint #2 Clean	± 137 deg	± 141 deg			
	Curved — Joint #1 Right Hand	-			-110 ~ 165 deg	-
	Curved — Joint #1 Left Hand				-165 ~ 110 deg	
	Curved — Joint #2 Right Hand Std & ESD				-120 ~ 165 deg	
	Curved — Joint #2 Right Hand Clean				-120 ~ 160 deg	
	Curved — Joint #2 Left Hand Std & ESD				-165 ~ 120 deg	
	Curved — Joint #2 Left Hand Clean				-160 ~ 120 deg	
	All Models — Joint #3 Std & ESD	150 mm				
	All Models — Joint #3 Clean	120 mm				
	All Models — Joint #4	± 360 deg				
Joint #4 Allowable Moment of Inertia[3]	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 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)		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 3[1] with ESD				
Safety Standards		ISO 10218-1, UL 1740, CSA Z434, 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	
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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1 Complies with ISO Class 3 (ISO14644-1) and Fed-std209D Class 1 (less than 10 0.1 uM particles per 28,317 cm³:1cft) cleanroom standards. | **2** 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). | **3** 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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Contact: