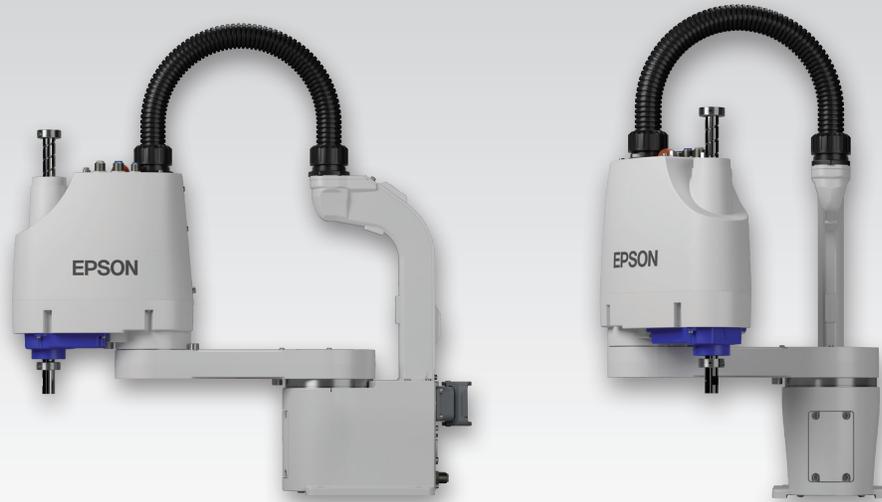


# GX4 SCARA Robot



Robots

SCARA

## Epson® GX. Taking SCARA robot performance to the next level.

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

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

**Fast cycle times** — higher acceleration compared to prior generations, smooth motion and fast settling times help maximize throughput for high-precision applications

**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 residual vibration** — fast settling times with proprietary Epson GYROPLUS vibration reduction system and rigid arm design, plus no ringing or overshoot

**Low total cost of ownership** — includes battery-less encoders, a built-in Ethernet cable and Epson RC+ software with no recurring license fee

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

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

**Advanced integrated options** — Vision Guidance, Parts Feeding, Force Guidance, Conveyor Tracking, Fieldbus, Euromap67, API.NET and Arm Length Calibration



Model Name		GX4 SCARA Robot						
Model Number		GX4-A251x	GX4-A301x		GX4-A351x			
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 <sup>1</sup>		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	± 137 deg	± 135 deg	± 142 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	
		Joint #2 Left Hand Clean					-160 ~ 120 deg	
	All Models	Joint #3 Std & ESD	150 mm					
		Joint #3 Clean	120 mm					
		Joint #4	± 360 deg					
	Allowable Moment of Inertia (Joint #4) <sup>2</sup>	Rated	0.005 kg·m <sup>2</sup>					
Max.		0.05 kg·m <sup>2</sup>						
Joint #3 Downforce		150 N						
User Electric Lines		15-pin (D-sub), 8-pin (RJ45 Cat 5e)						
User Pneumatic Lines		ø6 mm x2, ø4 mm x1						
Brakes		Z axis only						
Power		AC 200 - 240 V (single phase)						
Power Consumption		1.2 kVa						
Power Cable Length (Cables ordered separately)		3 m/5 m/10 m Straight and Angled Cable End Options						
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		RC700-D						
Installation Environment		Standard/ESD/Cleanroom ISO <sup>3</sup> & ESD						
Safety Standards		CE Marking, UL1740						
What's in the Box		GX4 robot and RC700-D controller, Epson RC+ software, e-stop unit with cable, connector set (I/O, and safety circuit connectors)						
<b>Options</b>								
		Vision Guide CV2				Available		
		Vision Guide PV1				Available		
		IntelliFlex™				Available		
		Force Guidance				Available		
		Conveyor Tracking Kit				R12NZ900AA		
		Euromap67 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		
		Arm Length Calibration				R19NZ901AD		
		GX4 Bellows Kit				R12NZ901C7		
		GX4 ISO Tool Adapter				R12NZ901C1		
		GX4 Camera Mounting Bracket				R12NZ901C4		

**Support**

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<sup>1</sup> Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) with 2 kg payload of table top model boost mode (path coordinates optimized for maximum speed). | <sup>2</sup> When payload center of gravity is aligned with Joint #4; if not aligned with Joint #4, set parameters using INERTIA command. | <sup>3</sup> Complies with ISO Class 3 (ISO 14644-1) and Fed-std209D Class 1 (less than 10 0.1µm particles per 28,317 cm<sup>3</sup>:1cft) cleanroom standards.

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