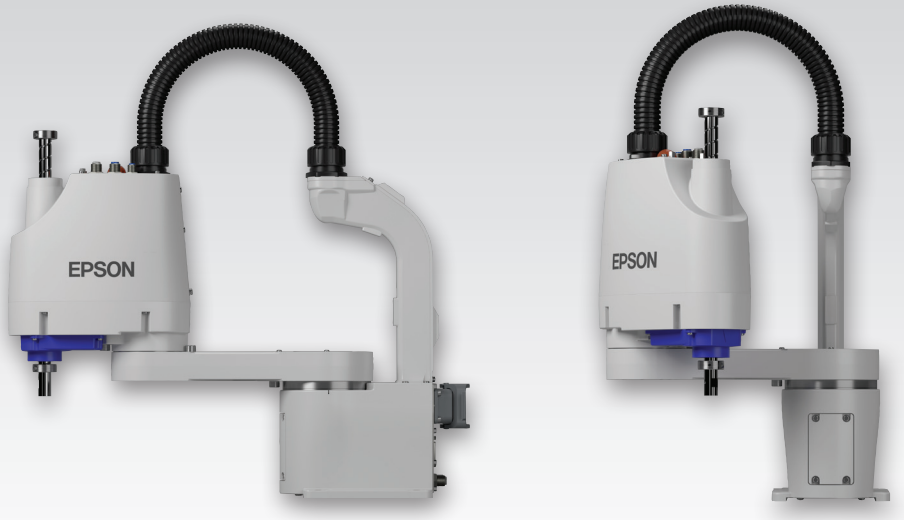
EPSON
EXCEED YOUR VISION

SPECIFICATION SHEET

Robots

SCARA

GX4 SCARA Robot



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



GX4 SCARA Robot

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[1]			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)[2]		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 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[3] & 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)				

Options		
	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

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1 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). | **2** When payload center of gravity is aligned with Joint #4; if not aligned with Joint #4, set parameters using INERTIA command. | **3** Complies with ISO Class 3 (ISO 14644-1) and Fed-std209D Class 1 (less than 10 0.1µm particles per 28,317 cm³:1cft) cleanroom standards.

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