![EPSON EXCEED YOUR VISION]

GX8 SCARA Robot

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

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

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

Built for demanding environments — Standard, Cleanroom (ISO3) and ESD, Protected IP65, 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

RATED NUMBER ONE
EPSON ROBOTS
FOR EASE OF USE

GX8 SCARA Robot

Model Name		GX8 SCARA Robot								
Model Number		GX8-A45x			GX8-A55x			GX8-A65x		
Mounting Type		Tabletop	Ceiling	Wall	Tabletop	Ceiling	Wall	Tabletop	Ceiling	Wall
Arm Length	Joint #1 Plus Joint #2	450 mm			550 mm			650 mm		
Repeatability	Joints #1 - 2	± 0.015 mm								
	Joint #3	± 0.010 mm								
	Joint #4	± 0.005 deg								
Payload	Rated	4 kg								
	Max.	8 kg								
Standard Cycle Time[1]		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 ± 145 deg	± 145 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[2]	Rated	0.01 kg·m²								
	Max.	0.16 kg·m²								
Joint #3 Downforce		150 N								
User Electric Lines		15-pin (D-sub), 9-pin (D-sub), 8-pin (RJ45 Cat 5e)								
User Pneumatic Lines		ø4 mm x2, ø6 mm x2								
Brakes		Z axis only								
Power		AC 200 - 240 V (single phase)								
Power Consumption		2.2 kVa								
Power Cable Length (Cables ordered separately)		3 m/5 m/10 m Straight and Angled Cable End Options								
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		RC700-D								
Installation Environment		Standard/ESD/ Cleanroom[3] & ESD/Protected								
Safety Standards		CE Marking, UL1740								
What's in the Box		GX8 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, CCLink)	Available
External Control Point (ECP) Option	R12NZ920AF
TP3 – Teach Pendant	R12NZ00N3
Arm Length Calibration	R19NZ901AD
Bellows Kit (Standard and Long Z)	Available
GX8 ISO Tool Adapter	R12NZ901C2
GX8 Camera Mounting Bracket	R12NZ901C5
GX8 External Wiring Kit (Table or Wall/Ceiling)	Available

Support

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[1] Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) with 2 kg payload of tabletop 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 cm³:1 cft) cleanroom standards.

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