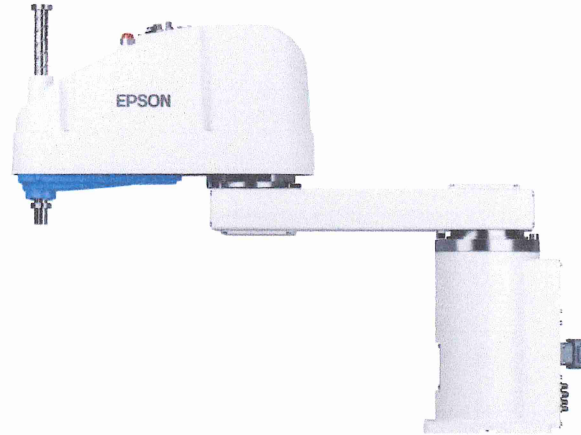


## Epson® GX20B SCARA Robot



**Epson GX20-Series. Taking SCARA robot performance to the next level.**

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

**Unique high-power-density SCARA** — innovative design handles heavy workloads at fast speeds, all in a compact 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<sup>1</sup>

**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 and Epson RC+ software with no recurring license fee; rich suite of safety features included with RC700E controller

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

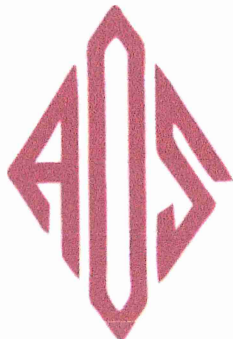
**Optimized footprint** — table, wall- and ceiling-mount options; 850 mm and 1,000 mm reaches available; longer Z axis available on all models

**Built for demanding environments** — Standard, Cleanroom (ISO3)<sup>2</sup> and ESD, and Protected IP65 models available

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

**Industry 4.0 ready** — advanced OPC UA for robotics connectivity provides next-level integration and monitoring

Model Name		GX20B SCARA Robot																															
Model Number		GX20-B85x			GX20-BA0x																												
Mounting Type		Tabletop	Ceiling	Wall	Tabletop	Ceiling	Wall																										
Arm Length		850 mm			1000 mm																												
Repeatability	Joint #1 - #2	±0.025 mm																															
	Joint #3	±0.010 mm																															
	Joint #4	±0.005 deg																															
Payload	Rated	10 kg																															
	Max.	20 kg																															
Standard Cycle Time <sup>3</sup>		0.37 sec			0.42 sec																												
Max. Motion Range	Joint #1	±152 deg		±107 deg		±152 deg ±107 deg																											
	Joint #2 Std	±152.5 deg																															
	Joint #2 Clean & Protected	±152.5 deg		±130 deg		Z: 0--360 mm ± 152.5 deg Z: -360--390 mm ± 151 deg																											
	Joint #3 Std	180 mm/420 mm																															
	Joint #3 Clean	150 mm/390 mm																															
Joint #4 Allowable Moment of Inertia <sup>4</sup>	Rated	0.05 kg·m <sup>2</sup>																															
	Max.	0.45 kg·m <sup>2</sup>																															
	Joint #3 Downforce	250 N																															
User Electric Lines		15-pin (D-sub), 9-pin (D-sub)																															
User Pneumatic Lines		ø4 mm x2, ø6 mm x2																															
Brakes		Joint #3 and Joint #4																															
Power		AC 200 V - 240 V Single Phase																															
Power Consumption		2.5 kVa																															
Power Cable Length		3 m/5 m/10 m (flexible, straight and angled cable end options)																															
Weight (cables not included)		49 kg, 108 lb		53 kg, 117 lb		50 kg, 110 lb 55 kg, 121 lb																											
Applicable Controller		RC700E																															
Installation Environment		Standard/Cleanroom ISO3 <sup>2</sup> & ESD/Protected																															
Safety Standards		TUV Certified to meet ISO 10218-1, UL 1740, CSA Z434, ISO 13849																															
What's Included		GX20B robot and RC700E controller, Epson RC+ software, E-Stop unit with cable, E-stop unit with flying leads, connector set (I/O, hand I/O and safety circuit connectors)																															
Options		<table border="1"> <tbody> <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>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, CCLink)</td> <td>Available</td> </tr> <tr> <td>External Control Point (ECP) Option</td> <td>R12NZ920AF</td> </tr> <tr> <td>TP3 - Teach Pendant</td> <td>R12NZ00N3</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>GX20B ISO Tool Adapter</td> <td>R12NZ911C3</td> </tr> </tbody> </table>						Vision Guide CV2	Available	IntelliFlex™	Available	Force Guidance	Available	Conveyor Tracking Kit	R12NZ900AA	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	Epson OPC UA for Robots	R19NZ901CE	Arm Length Calibration	R19NZ901AD	GX20B ISO Tool Adapter	R12NZ911C3
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