

# Epson GX1C SCARA Robot



**Epson GX—taking SCARA performance to the next level.**

**Ultra high performance and flexibility** — high throughput and precision with max-rated payloads and multiple arm configurations to accomplish the most demanding assembly needs

**Fast cycle times** — high acceleration, smooth motion and fast settling times help maximize throughput

**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

**Designed for reliability** — innovative, compact design handles max-rated workloads at fast speeds and high precision within a small footprint

**Low total cost of ownership** — includes features that help reduce support and installation costs: batteryless encoders, a built-in Ethernet cable, Epson RC+ software and a rich suite of safety features

**Accelerate the development of workcell applications** — fully integrated, optional solutions include vision guidance, parts feeding, force guidance, conveyor tracking and fieldbus; Epson RC+ Solutions Platform allows for seamless expansion of third-party solutions, benefiting developers and end users

**Increase user interaction without sacrificing productivity** — SafeSense™ technology's standard and advanced safety features, with a proper risk assessment, help allow for increased productivity and worker protection while potentially minimizing workcell footprint due to the reduction of physical barriers

**Minimize the workcell space requirement with an optimized robot footprint** — unique compact design; 175 mm or 225 mm reach available

**Built for demanding environments** — Standard model and Cleanroom (ISO 3)<sup>1</sup> and ESD model available

**World-class service and support** — with four decades of automation experience, Epson provides support for your automation needs through its dedicated application and service teams

| Model Name                           |                        | GX1C SCARA Robot  |            |
|--------------------------------------|------------------------|---|------------|
| Model Number                         |                        | GX1-C17x  | GX1-C22x   |
| Mounting Type                        |                        | Tabletop  |            |
| Arm Length                           | Joint #1 Plus Joint #2 | 175 mm  | 225 mm     |
| Repeatability                        | Joints #1 - #2         | ±0.005 mm   | ±0.008 mm  |
|                                      | Joint #3               | ±0.01 mm  |            |
|                                      | Joint #4               | ±0.01°  |            |
| Payload                              | Rated                  | 0.5 kg  |            |
|                                      | Max.                   | 1.0 kg  |            |
| Standard Cycle Time                  |                        | 0.292 sec   | 0.288 sec  |
| Max. Motion Range                    | Joint #1               | ±125 deg  |            |
|                                      | Joint #2 Std           | ±140 deg  | ±152 deg   |
|                                      | Joint #2 Clean & ESD   | ±140 deg  | ±149 deg   |
|                                      | Joint #3 Std           | 100 mm  |            |
|                                      | Joint #3 Clean & ESD   | 80 mm   |            |
|                                      | Joint #4               | ±360 deg  |            |
| Joint #4 Allowable Moment of Inertia | Rated                  | 0.0003 kg-m <sup>2</sup>  |            |
|                                      | Max.                   | 0.0004 kg-m <sup>2</sup>  |            |
| Joint #3 Downforce                   |                        | 50 N  |            |
| User Electric Lines                  |                        | 15-pin (D-sub), 9-pin (D-sub)   |            |
| User Pneumatic Lines                 |                        | ø4 mm x 1, ø6 mm x1   |            |
| Brakes                               |                        | Z-axis only   |            |
| Power                                |                        | AC 200 V – 240 V (single phase)   |            |
| Power Consumption                    |                        | 0.5 kVA   |            |
| Power/Signal Cable Length            |                        | 3 m/5 m/10 m  |            |
| Weight (Cables Not Included)         |                        | 18 lb (8 kg)  |            |
| Applicable Controller                |                        | RC800A  |            |
| Installation Environment             |                        | Standard/Cleanroom ISO3 <sup>+</sup> & ESD  |            |
| Safety Standards                     |                        | TUV Certified to meet ISO 10218-1, UL 1740, CSA Z434, ISO 13849   |            |
| What's Included                      |                        | GX1C robot and RC800A controller, E-Stop unit with cable and connector, cable with flying leads for controller<br>E-stop/Safety connection, connector set (I/O, hand I/O and safety circuit connectors) |            |
| Options                              |                        |   |            |
|                                      |                        | Vision Guide  | Available  |
|                                      |                        | IntelliFlex™ Feeders  | Available  |
|                                      |                        | Conveyor Tracking   | Available  |
|                                      |                        | Epson RC+ API 8.0   | R19NZ901JK |
|                                      |                        | GUI Builder 8.0   | R19NZ901JQ |
|                                      |                        | Fieldbus Master   | Available  |
|                                      |                        | Fieldbus Slave (Ethernet/IP, EtherCAT®, PROFINET, PROFIBUS, CC-Link)  | Available  |
|                                      |                        | External Control Point (ECP) 8.0  | R19NZ901JL |
|                                      |                        | Teach Pendant   | Available  |
|                                      |                        | Epson OPC UA for Robotics   | R19NZ901JZ |
|                                      |                        | Bellows Kit   | Available  |

### Support

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1 Complies with ISO Class 3 (ISO 14644-1) and FED-STD-209D Class 1 cleanroom standards.  
See the latest innovations from Epson Business Solutions at [epson.com/forbusiness](https://www.epson.com/forbusiness)

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