

Epson SCARA GX1-C 225mm Series



A versatile SCARA robot that offers the ideal solution for complex tasks in the most confined spaces.

The GX1-C Series was designed for work where a hundredth of a millimetre matters, such as electronic manufacturing or precision mechanical work processes. Ultralight due to its high-strength aluminium design, and at the same time compact and powerful.

Compact high performance

GX1-C Series SCARA robots offer performance among the best in the industry, with outstanding range of motion, and maximum footprint efficiency. Cycle times can be as low as 0.29 seconds, while a high duty cycle permits fast cycles even during extended use. A unique high-rigidity arm design means very low residual vibration, with smooth start and stop motion, even at high speeds.

Extensive configuration options

The GX1-C Series offers a range of configuration options including arm lengths of 175mm and 225mm, as well as both three and four-axis models, and units designed for sensitive clean-room applications such as hard-drive assembly.

Outstanding versatility

SCARA GX1-C Series robots are used in a huge range of industries, from assembling automotive components, mobile phones and computer parts, to creating medical equipment and packaging medications, not to mention lab automation and scientific analysis.

KEY FEATURES

- **Compact, precise SCARA robot**
Designed for pinpoint accuracy in very small workspaces
- **Extensive configuration options**
Two arm lengths and axis types available as well as clean room options
- **Short cycle times**
Cycle times can be as low as 0.29 seconds, even during extended use
- **Fully integrated**
Complete Epson solution including robot, controller and software
- **Versatile and flexible**
An ideal solution for applications from automotive to pharmaceutical

PRODUCT SPECIFICATIONS

GENERAL	
Product weight	8 kg
Development Environment	EPSON RC+ 8.0 Basic, EPSON RC+ 8.0 Lite, EPSON RC+ 8.0 Premium, EPSON RC+ 8.0 Standard
Programming Language	Epson SPEL+ (multitasking possible)
Design	SCARA (4 axis robot)
Safety features	AC power supply voltage reduction detection, Motor overload detection, Irregular motor torque (out-of-control Manipulator) detection, Dynamic brake, emergency stop switch, Fan error detection, CPU irregularity detection, Low power mode, Memory check-sum error detection, Motor speed error detection, over-voltage, Overheat detection at the Motor Driver Module, Positioning overflow - servo error - detection, Relay welding detection, Safety door input, Speed overflow - servo error - detection, Temperature error detection
Hardware Options	Expansion I/O (24/16, up to 4 additional cards), Fieldbus I/O master (DeviceNet, Profi bus, Ethernet/IP, 1 additional card each possible), Fieldbus I/O slave (DeviceNet, ProfiNet, ProfiBus, CC-Link, Ethernet/IP, EtherCAT, 1 additional card each possible), Pulse generating (4 channels per card, up to 4 additional cards), RS-232C (2 channels per card, up to 2 additional cards), Teach pendant, operator pendant
Software Options	Conveyor Tracking, Conveyor Tracking, VB Guide, GUI Builder, Security Option, Epson RC+ 8.x API License, Epson RC+ 8.x Conveyor Tracking License, Epson RC+ 8.x Express Advanced License, Epson RC+ 8.x External Control Point License, Epson RC+ 8.x Fieldbus Master License, Epson RC+ 8.x GUI Builder License, Epson RC+ 8.x OCR License, Epson RC+ 8.x OPC UA for Robotics Part1 License, Epson RC+ 8.x Part Feeding License, Epson RC+ 8.x Safety Function License (SLS/SLP), Epson RC+ 8.x Vision Guide License, Force Sensing
Payload	nom.0.5 kg, max.1 kg
Reach horizontal	225 mm
Reach Vertical	J3:100 mm
Reach Orientation	J4: +/-360 °
Repeatability Horizontal	+/-0.008 mm
Repeatability Vertical	J3: +/-0.01 mm
Repeatability Orientation	J4: +/-0.01 °
Max. range of operation	J1: +/-125 °, J2: +/-140 °, J4: +/-360 °, J3: +/-100 mm
Max. Operating Speed	J1 + J2: +/-3,000 mm/s, J3: +/-1,200 mm/s, J4: +/-3,000 °/s
Moment of Inertia	nom.0.0003 kg*m ² , max.0.004 kg*m ²
User Wires Electric	1x D-Sub 9 pin, 1x D-Sub 15 pin
Z-axis	Ø Outside:8 mm
Insertion force	50 N
Controller	RC800-A
Mounting option	Pedestal
Cleanroom protection class	ISO 3 & ESD
IP protection class	IP20
Power and signal cable	3m, 5m, 10m, 20m
Certifications	Machinery Directive: EN 60204-1, EMC Directive: EN 55011, CE Mark, KCs Mark, NRTL (TÜV Süd), ISO 10218 (TÜV Süd)
Power/Voltage	200-240V AC Single Phase
Power Consumption	0.5 kVA

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WHAT'S IN THE BOX

- Epson robot and controller
- Installation/safety manual

* Warranty offers are not available for all countries. Please contact your local Epson representative.

For further information please contact your local Epson office or visit www.epson-europe.com

Austria 01 253 49 78 333 Belgium +32 (0)2 792 04 47 Czech 800/142 052 Denmark 44 50 85 85 Finland 0201 552 091 France 09 74 75 04 04

(Cost of local call, operator charges may apply) Germany +49 (0) 2159/92 79 500 Greece +30 211 198 62 12 Hungary 06800 147 83 Ireland 01 436 7742

Italy 02-660321 10 (0,12 /min) Luxembourg +352 27860692 Middle East +9714 8872172 Netherlands +31 (0)20 708 5099 Norway +47 67 11 37 00

Poland 0-0-800 4911299 (0,16 zł/min) Portugal 707 222 111 Russia (095) 777-03-55 Slovakia 0850 111 429 South Africa (+2711) 465-9621

Spain 93 582 15 00 Sweden 0771-400135 (Mobilsamtal – 0,99 kr/min, Lokala samtal – 0,30 kr/min, Utlandssamtal – 0,89 kr/min) Switzerland 022 592 7923

Turkey (0212) 3360303 United Kingdom 0871 222 6702

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