

Epson ProSix

CX4-A601S/RC800-A/RC+ 8

This slimline, versatile six-axis robot can handle payloads of up to 4kg and features an expanded motion range and improved cycle times

The Epson ProSix CX4-A six-axis robot series provides high performance in small places, thanks to its slimline body. It's capable of handling up to 4kg payloads, and the expanded motion range makes it a great choice for complex movements or reaching difficult positions.

Expanded operating area

The ProSix CX4-A has an optimised arm structure and layout, expanding the operating area and allowing for more flexible machine layouts. In addition, the expanded J4 motion range allows for a higher motion efficiency, and there are fewer arm configuration changes required to reach certain positions.

ISO flange

The screw mounting pattern meets robotics market standards, making it compatible with all common end effector tools and other robots on the market, and the same flange size is used for the whole CX range.

Safety function on board

Reduce engineering time through the easy definition of safe zones and safe speed, using the safety function manager and integrated 3D view.

Enhanced wrist robustness

Improved components of J5 and J6 increase the reliability of the robot, making the wrist axis significantly more resilient and less sensitive, and the increased holding torque reduces misalignment after collisions.

Improved path accuracy and cycle times

The ProSix CX4-A features an updated motion control algorithm, improving the cycle times and position repeatability, supported by an improved wrist axis. The path accuracy is also improved, and has been tested according to ISO 9283.

Software

The powerful Epson RC+ project management and development environment is ideal for straightforward programming of your application, thanks to its intuitive Windows user interface, open structure and integrated image-processing.

KEY FEATURES

- **Higher motion efficiency**
Expanded J4 motion range and optimised arm structure to allow a higher motion efficiency and increase main working areas
- **Enhanced wrist robustness**
More resilient wrist axis and increased holding torque
- **Standardised EoA connection (ISO)**
Compatible with all common end effector tools and other robots on the market
- **Improved motion control, accuracy and cycle times**
Updated motion control algorithm for improved repeatability and faster cycle times
- **Fully integrated**
Complete Epson solution including robot, controller and software
- **Safer operation**
User-friendly safety function manager, to set safe zones and speed

PRODUCT SPECIFICATIONS

GENERAL	
Development Environment	EPSON RC+ 8.0 Basic, EPSON RC+ 8.0 Lite
Programming Language	Epson SPEL+ (multitasking possible)
Design	ProSix (6 axis robot)
Hardware Options	Fieldbus I/O master (DeviceNet, Profi bus, Ethernet/IP, 1 additional card each possible), Fieldbus I/O slave (DeviceNet, Profi bus, CC-Link, Ethernet IP, 1 additional card each possible), RS-232C (4 channels per card, up to 2 additional cards), Teach pendant, operator pendant
Software Options	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
Payload	nom.1 kg, max.4 kg
Reach horizontal	600 mm
Reach	+/-600 mm
Repeatability	+/-0.01 mm
Max. range of operation	J1: +/-180 °, J2: +/-150 °, J3: +/-63 °, J4: +/-270 °, J5: +/-135 °, J6: +/-540 °
Max. Operating Speed	J1: +/-450 °/s, J2: +/-450 °/s, J3: +/-514 °/s, J4: +/-558 °/s, J5: +/-570 °/s, J6: +/-851 °/s
Moment of Inertia	max.0.2 kg*m ²
User Wires Electric	1x D-Sub 9 pin, Equivalent to 8 pin (RJ45) Cat.5e
User Wires Pneumatic	4x 4mm Ø
Product weight	30 kg
Controller	RC800-A
Mounting option	Wall, Ceiling, Pedestal
Cleanroom protection class	ISO 3 & ESD
IP protection class	IP20, IP67
Power and signal cable	3m, 5m, 10m, 15m, 20m
Certifications	KC Mark, NRTL (TÜV Süd), ISO 10218 (TÜV Süd)
Power/Voltage	200-240V AC Single Phase
Ambient temperature	5 °C - 40 °C
Relative Humidity	20 % - 80 % (no condensation)
OTHER	
Warranty	12 months

LOGISTICS INFORMATION

SKU	R11N05402U
EAN code	8715946754055
Country of Origin	China

* 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
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