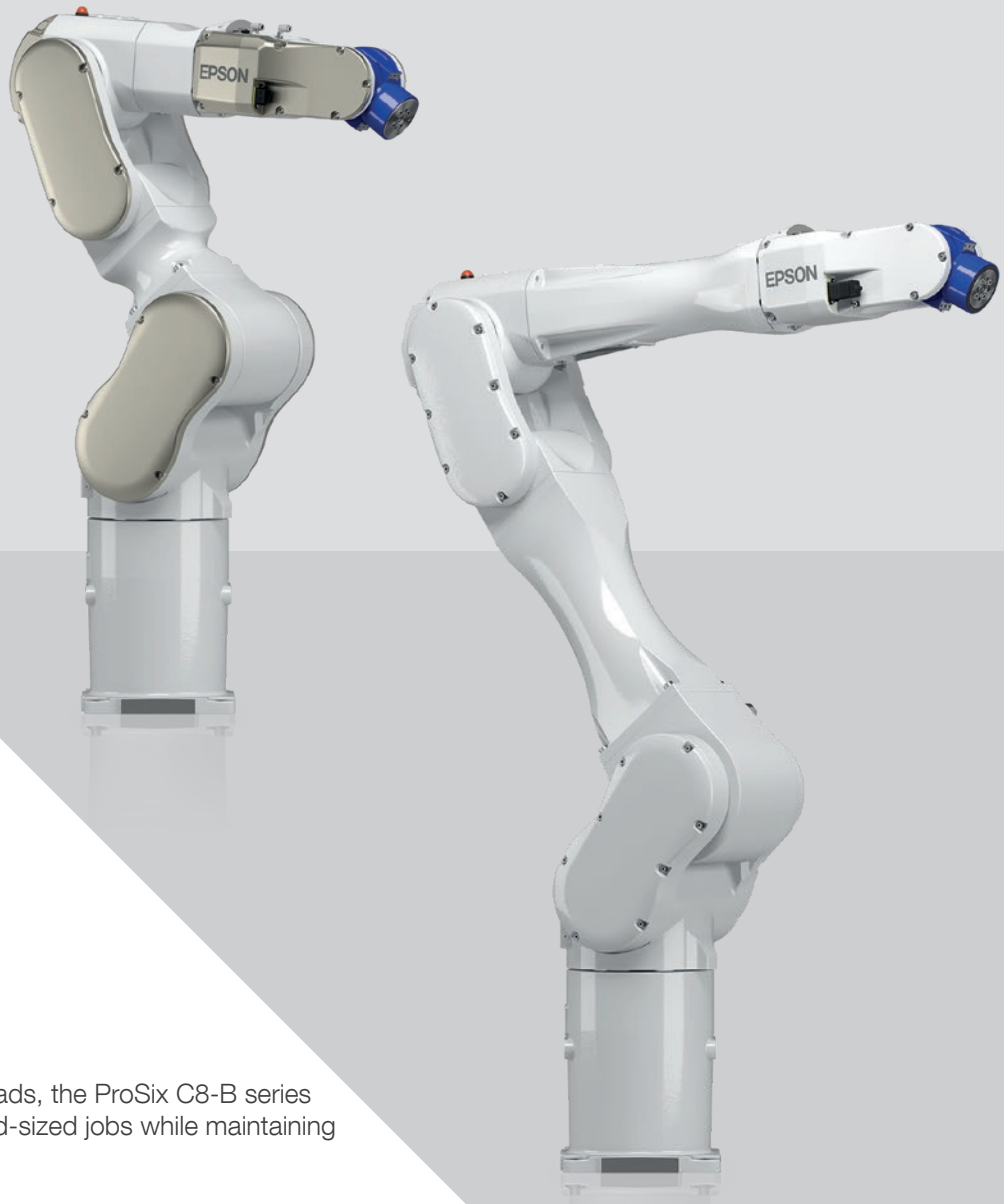
C8-B series

# Precise and safe




## Great reach, great safety

Capable of handling up to 8kg payloads, the ProSix C8-B series robots can comfortably complete mid-sized jobs while maintaining an extremely small footprint.

### Precise agility

The Epson C8-B series can help your system reach its full potential. Work at high speeds with precise path behaviour, all in an ultra-slim body.

### Easy to use and maintain

Light enough to be tabletop-mounted, and wired from the side. Thanks to our new motor architecture, time-consuming battery changes are a thing of the past.

### Safe operation

Easily define safe zones, safe speed and safety parameters by using the safety function manager with integrated 3D viewer.

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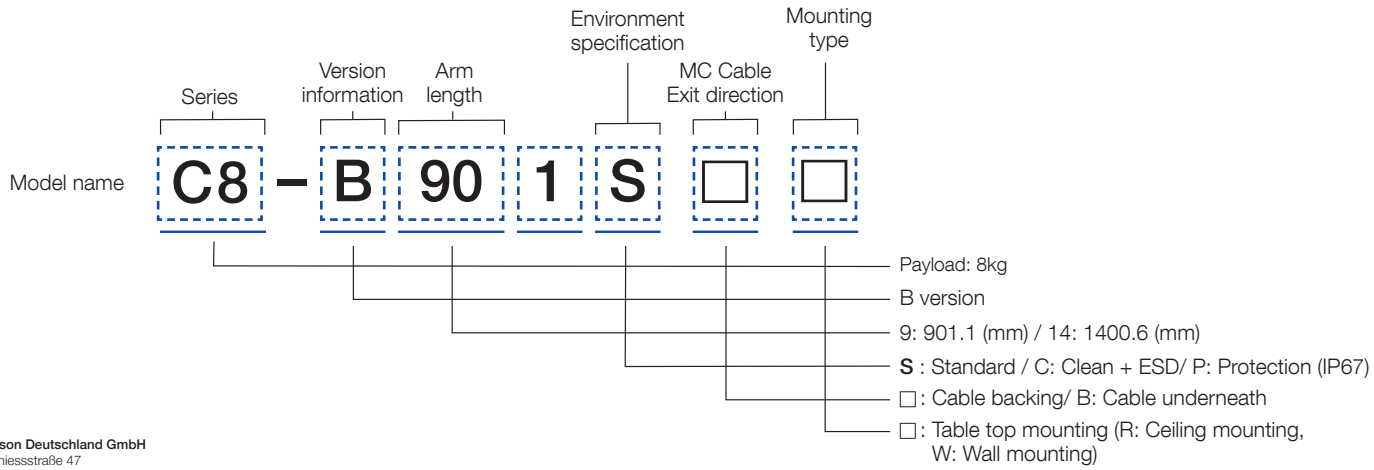
## Technical specifications

| Model name | | C8-B | |
|---|---|---|---|
| Model number | | C8-B901 □ | C8-B1401 □ |
| Arm length | Point P : J1-J5 center (mm) | 901 | 1400 |
| | J1-J6 Flange surface (mm) | 981 | 1480 |
| Payload | Rated (kg) | 3 | |
| | Maximum (kg) | 8 | |
| Repeatability | Joints #1~6 (mm) | +/- 0.03 | +/- 0.05 |
| Standard cycle time*1 | (sec) | 0.346 | 0.523 |
| Max. operating speed | Joint #1 (deg/sec) | 294 | 200 |
| | Joint #2 (deg/sec) | 300 | 167 |
| | Joint #3 (deg/sec) | 360 | 200 |
| | Joint #4 (deg/sec) | 480 | |
| | Joint #5 (deg/sec) | 450 | |
| | Joint #6 (deg/sec) | 720 | |
| Allowable moment of inertia*2 | Joint #4 (kg.m$^2$) | 0.47 | |
| | Joint #5 (kg.m$^2$) | 0.47 | |
| | Joint #6 (kg.m$^2$) | 0.15 | |
| Installation environment | | S: Standard<br>C: Cleanroom*4 & ESD*5<br>P: Protection (IP67) | |
| Mounting type | | Table top mounting, Ceiling mounting, Wall mounting | |
| Weight (cables not included) | (kg) | 53 | 63 |
| | Protection (kg) | 57 | 66 |
| Applicable Controller | | RC700-E | |
| Installed wire for customer use | | D-Sub 15 pin<br>RJ45 CAT5e 8 pin<br>Force Sensor 6 pin | |
| Installed pneumatic tube for customer use | | pneumatic tubes ø6mm x2: Allowable pressure: 0.59MPa (6kgf/cm$^2$) | |
| Power | (V) | AC200-240 Single phase | |
| Cable length | (m) | Standard: 3 / 5 / 10 / 15 / 20, High-flex: 3 / 5 / 10/ 15 / 20 | |
| Safety standard | | TÜV Süd (ISO 10218-1/NRTL), UKCA | |
| Supported options | | Safety functionality (SLS, SLP, SF manager, Safe In-/Outputs), RC+ Express, GUI builder, Vision System, Part Feeding System, Conveyor Tracking System, Force Sensing System, Fieldbus communication, Analog I/O, I/O Expansion, RS-232C, RC+ 7.0 API, OPC UA for Robotics, Function blocks (PLC)*6, TP2/3 | |

*1: Do not apply the load exceeding the maximum payload.
*2: Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) at rated payload setting of table top model boost mode (path coordinates optimised for maximum speed).
*3: Set the parameters by the Inertia command according to the load and end effector status (refer to the instruction manual for the parameter calculation method).
*4: Clean level (ISO14644-1):
C8-B901□: ISO Class 3.
C8-B1401□: ISO Class 4.
*5: Main resin parts of the ESD model use conductive materials or apply plate processing. For the tip of the Manipulator (tool mounting part), we have confirmed that it is +/- 5 V or less even immediately after operating the measurement under our standard.
*6: Varies according to operating environment and program.

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