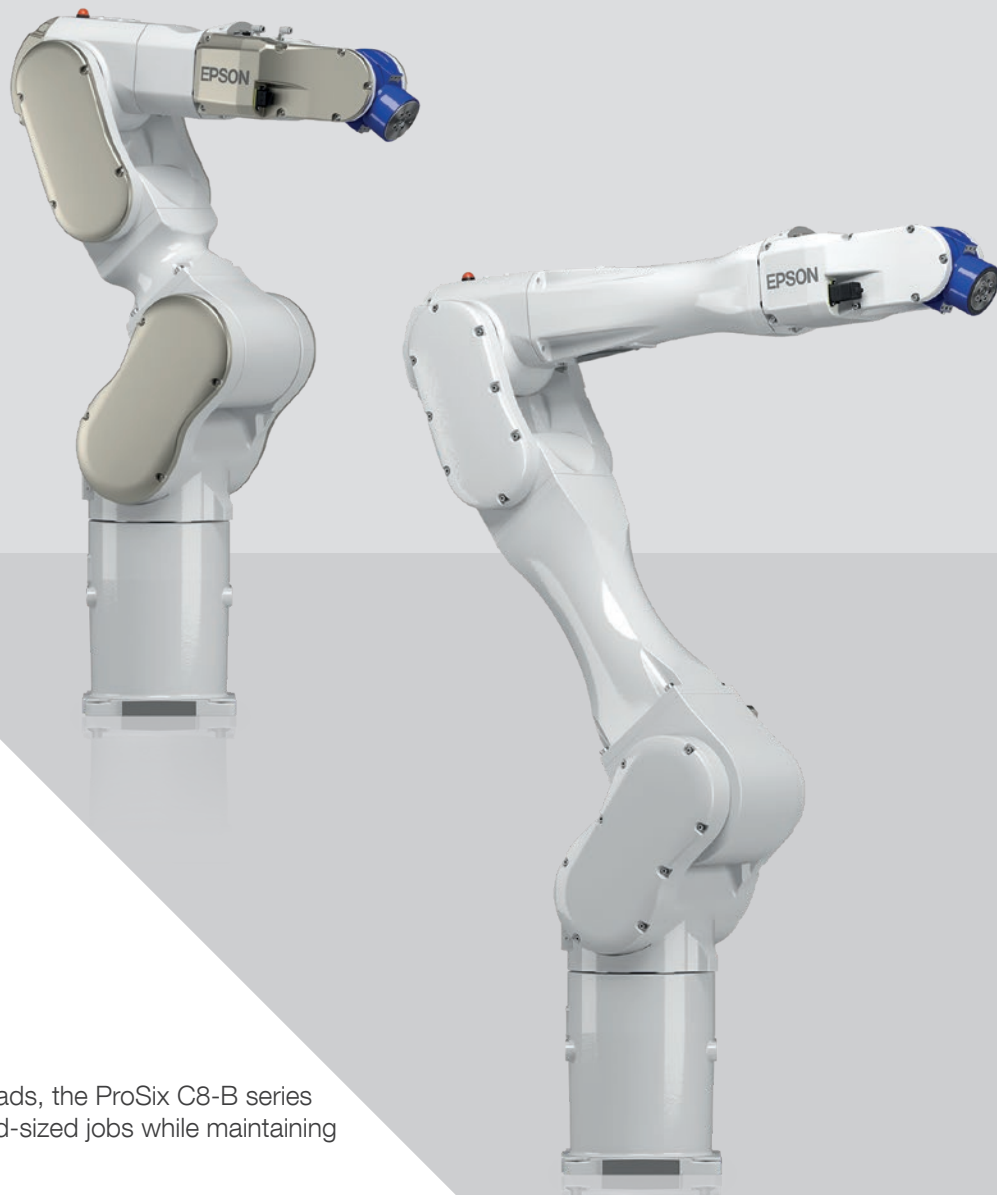


Precise and safe



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.

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 C: Cleanroom*4 & ESD*5 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 RJ45 CAT5e 8 pin 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).

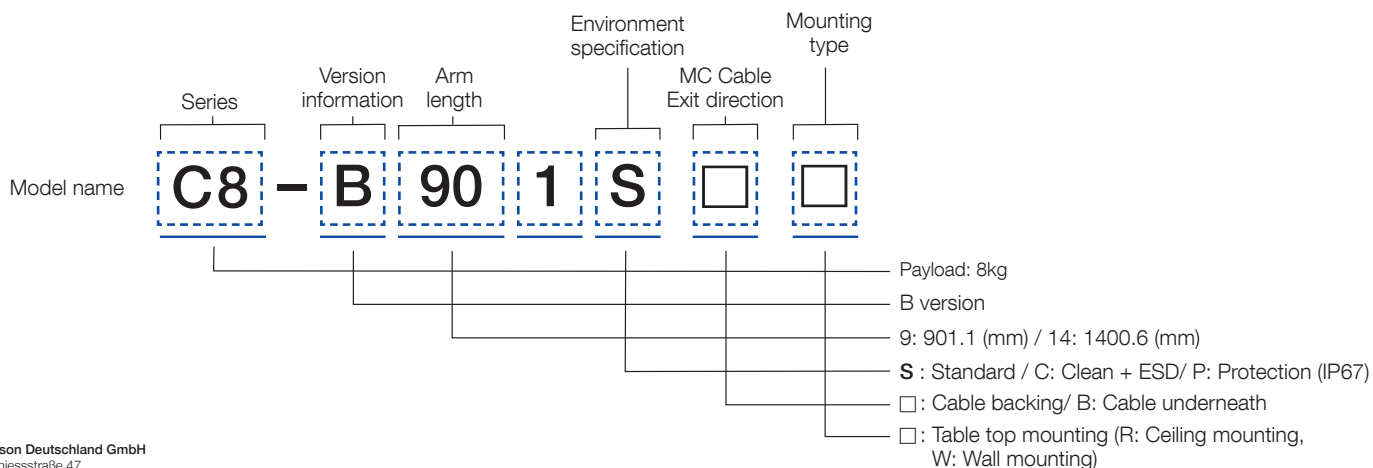
*4: Clean level (ISO14644-1):

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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