

Fast and safe



Fast, precise and safe operation

Compact and flexible six-axis robot, with impressive payload capabilities, Gyro Plus Technology for smoother robot movement, as well as safety functions. Thanks to our new motor architecture, time-consuming battery changes are a thing of the past.

Precise agility

The Epson C4-B series can help your system reach its full potential. Work at high speeds with precise path behaviour, all in an ultra-slim body.

Extensive mounting options

Table top and ceiling mounting options are available, making the C4-B series perfect for many different applications.

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		C4-B	
Model number		C4-B601 □	C4-B901 □
Arm length	Point P: J1-J5 center (mm)	600	900
	J1-J6 Flange surface (mm)	665	965
Payload	Rated (kg)	1	
	Maximum (kg)	4	
Repeatability	Joints #1~6 (mm)	+/- 0.02	+/- 0.03
Standard cycle time*1	(sec)	0.362	
Max. operating speed	Joint #1 (deg/sec)	450	275
	Joint #2 (deg/sec)	450	275
	Joint #3 (deg/sec)	514	289
	Joint #4 (deg/sec)	555	
	Joint #5 (deg/sec)	555	
	Joint #6 (deg/sec)	720	
Allowable moment of inertia*3 (kg m ²)	Joint #4 (kg.m ²)	0.15	
	Joint #5 (kg.m ²)	0.15	
	Joint #6 (kg.m ²)	0.1	
Mounting type	Table top mounting, Ceiling mounting*4		
Installation environment	S: Standard C: Cleanroom*5 & ESD*6		
Weight (cables not included) (kg)	27	30	
Applicable Controller	RC700-E		
Installed wire for customer use	D-Sub 9 Pin		
Installed pneumatic tube for customer use	pneumatic tubes ø4mm x4: 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)*8, 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: Manipulators are set to "Table Top mounting" at shipment. To use the Manipulators as "Ceiling mounting", you need to change the model settings.

For details on how to change the model settings, refer to "C4 Manipulator 5.5 Changing the Robot", and "EPSON RC+ User's Guide Robot Configuration".

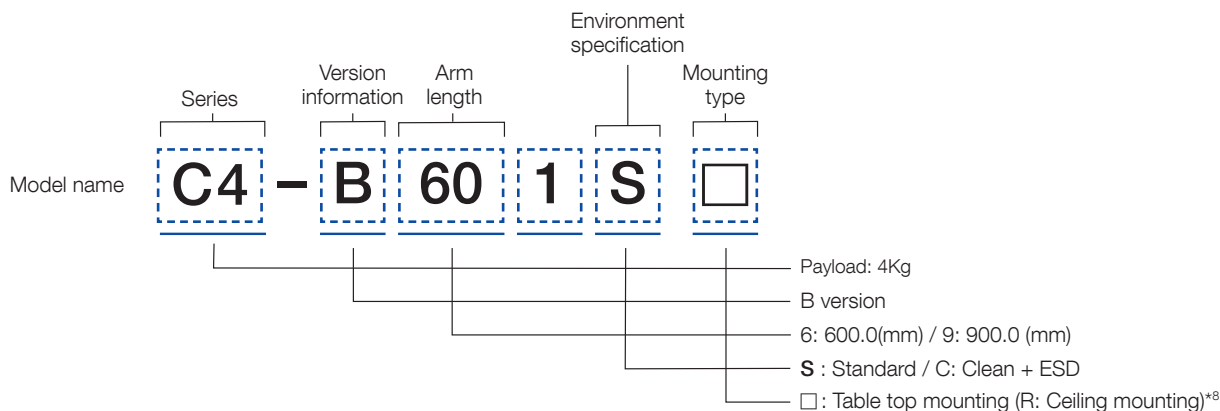
*5: Cleanroom level(ISO14644-1): ISO Class 3.ss

*6: 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.

*7: Varies according to operating environment and program.

*8: At the time of shipment, all are set to "Trestle mounting". If you want to use the manipulator as a ceiling mount, you must configure the model settings.

For details on how to set up the model, refer to "Epson RC+ User's Guide Robot Settings"



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