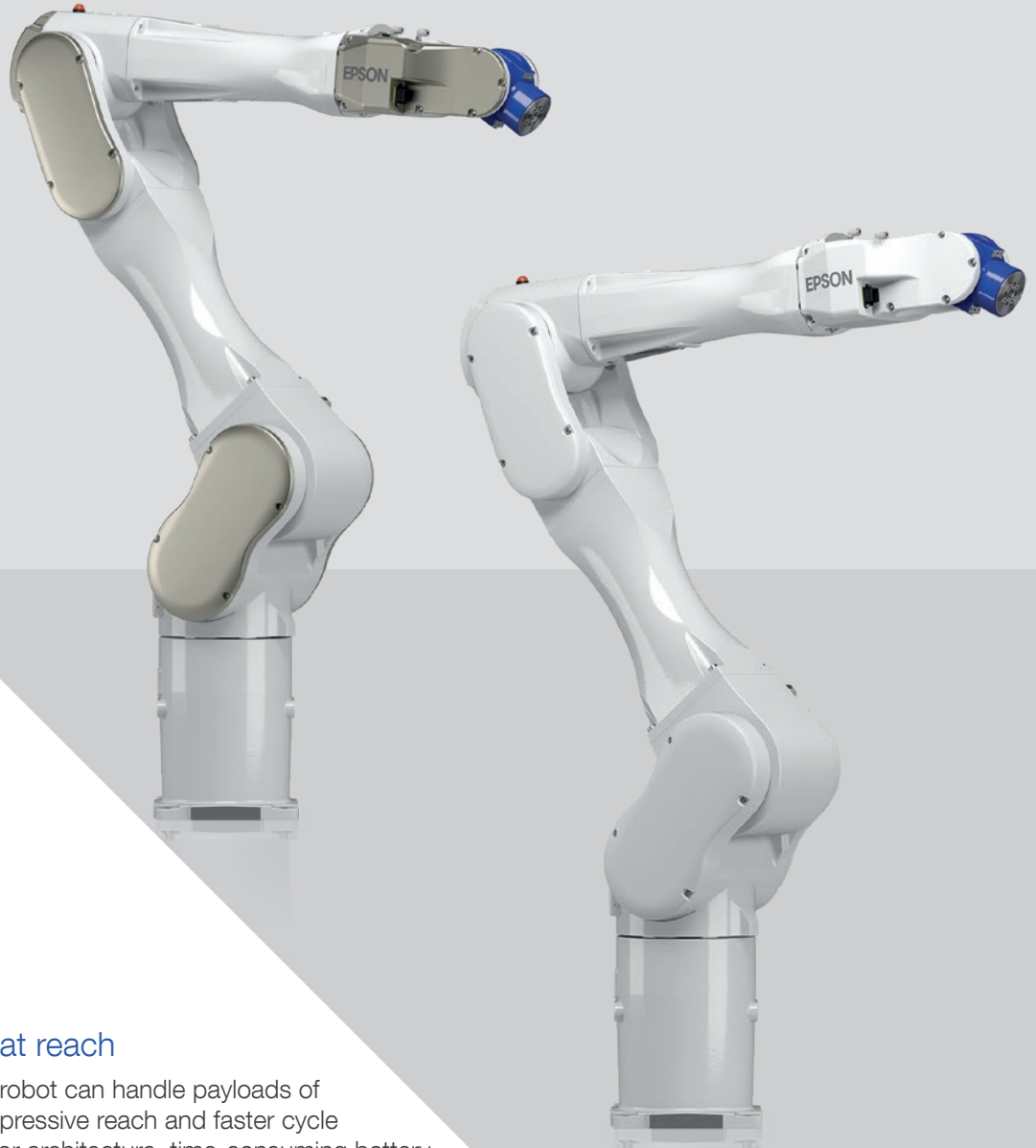


Safe operation, wide reach



Safe operation with great reach

This slimline, versatile six-axis robot can handle payloads of up to 12kg and features an impressive reach and faster cycle times. Thanks to our new motor architecture, time-consuming battery changes are a thing of the past.

Precise agility

The Epson C12-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

Floor, wall, ceiling and sunken mounting options are available, making the C12-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	C12-B	
Model number	C12-B1401	
Arm length	Point P: J1-J5 center (mm)	1400
	J1-J6 Flange surface (mm)	1480
Payload	Rated (kg)	3
	Maximum (kg)	12
Repeatability	Joints #1~#6 (mm)	+/- 0.05
Standard cycle time*1	(sec)	0.501
Max. operating range	Joint #1 (deg/sec)	200
	Joint #2 (deg/sec)	167
	Joint #3 (deg/sec)	200
	Joint #4 (deg/sec)	300
	Joint #5 (deg/sec)	360
	Joint #6 (deg/sec)	720
Allowable moment of inertia*2	Joint #4 (kg.m ²)	0.7
	Joint #5 (kg.m ²)	0.7
	Joint #6 (kg.m ²)	0.2
Installation environment	S: Standard C: Cleanroom ⁴ & ESD ⁵	
Mounting type	Table top mounting	
Weight (cables not included) (kg)	63	
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 x 2 Pressure resistance: 0.59 MPa (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.

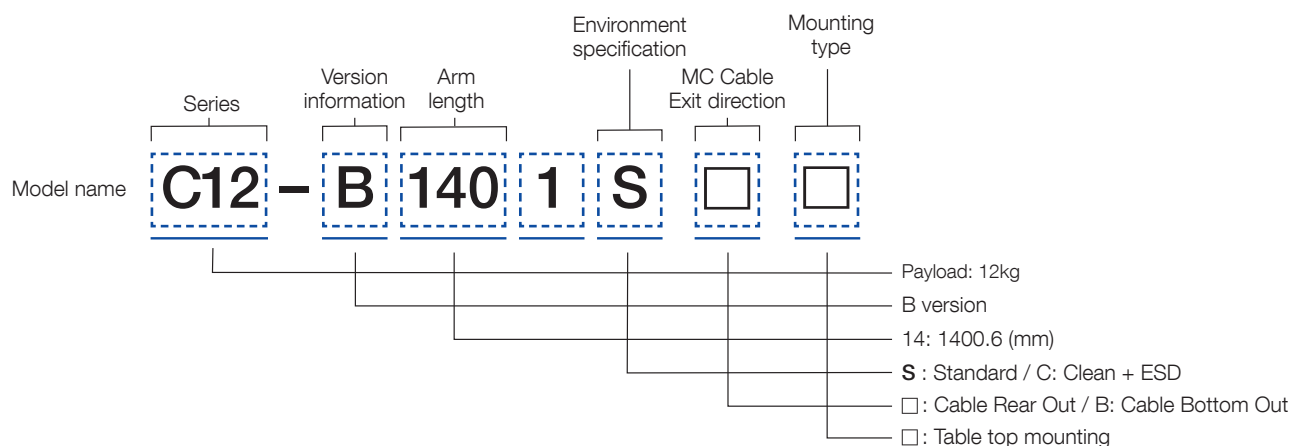
*2: Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) at rated payload setting of table top model boost mode (path coordinates optimised for maximum speed).

*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): 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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