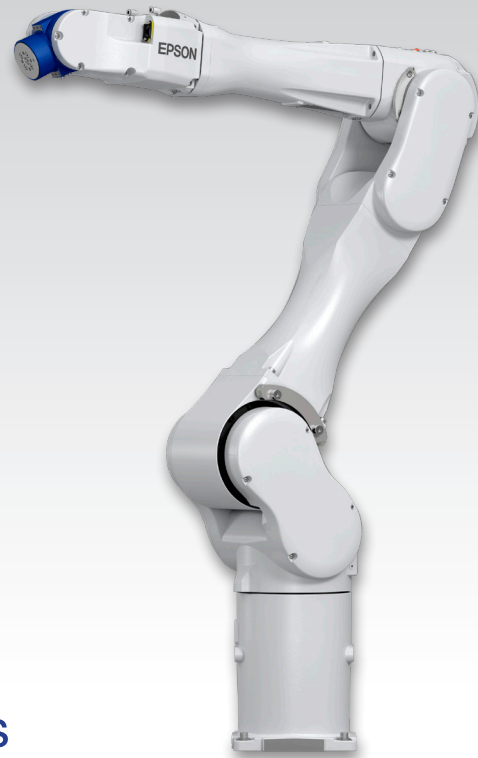


C12XL 6-Axis Robot



Robots

6-Axis

The compact, long reach, 6-Axis robot for payloads up to 12 kg.

Easy to use — intuitive Epson RC+[®] development software makes it simple to create high-performance solutions

Powerful servo system design — proprietary Epson gyro sensors allow for low residual vibration; minimizes overshoot with smooth end-of-arm motion

Outstanding acceleration/deceleration rates — smooth start/stop motion| to optimize cycle times

High-speed cycle times — advanced motion control and gyro servo feedback; maximizes parts throughput

SlimLine design — compact wrist pitch enables access to hard-to-reach areas in confined spaces

Powerful arm design — 1,400 mm reach, up to 12 kg payload

ISO 4 Clean/ESD models available — for critical dust-free applications such as electronics and medical device assembly

Optimized cable management — internal cable design; minimizes wear and tear for prolonged durability; configurable cable exit through rear or bottom of base

Integrated vision option — designed specifically for robot guidance; makes it easy to automate simple applications when vision is required

Versatile solutions — ideal for packaging, load/unload, material handling and more

Specifications

Model Number		C12XL 6-Axis Robot	
Mounting Type		Tabletop	
Arm Length	P Point: Joints #1 - 5 Center	1,400 mm	
	P Point: Joints #1-6 Flange Surface	1,480 mm	
Repeatability	Joints #1 - 6	± 0.05 mm	
Payload	Rated	3 kg	
	Max.	12 kg	
Standard Cycle Time¹		0.50 sec (1 kg payload)	
Max. Motion Range	Joint #1	± 240 deg	
	Joint #2	- 135 deg ~ +55 deg	
	Joint #3	- 61 sec ~ +202 deg	
	Joint #4	± 200 deg	
	Joint #5	± 135 deg	
	Joint #6	± 360 deg	
Allowable Moment of Inertia	Joint #4	0.70 kg·m ²	
	Joint #5	0.70 kg·m ²	
	Joint #6	0.20 kg·m ²	
User Electric Lines		15-pin (D-sub), 8-pin (RJ45 Cat 5e)	
User Pneumatic Lines		ø6 mm x2	
Brakes		All Axes	
Power		AC 200 - 240 V	
Power Consumption		2.5 kVa	
Power Cable Length		3 m/5 m/10 m	
Weight (cables not included)		63 kg: 138.6 lb	
Applicable Controller		RC700-A	
Installation Environment		Standard or Cleanroom (ISO 4) ESD	
Safety Standards		CE Marking, EMC Directive, Machinery Directive ANSI/RIA R15.06-2012 NFPA79 (2007 Edition)	
What's in the Box		C12XL robot and RC700-A controller Robot power and signal cables Epson® RC+ software C12XL Robot System Safety & Installation Manual Connector set (I/O, hand I/O and safety circuit connectors)	
Options			
Vision Guide CV2	Available	Conveyor Tracking	R12NZ900AA
Vision Guide PV1	Available	External Control Point (ECP) Option	R12NZ920AF
Vision Guide Camera Mount	R12B031922	Epson RC+ 7.0 API	R12NZ920AE
IntelliFlex™ Feeders	Available	Ethernet/IP Fieldbus I/O (Master)	R12NZ900NZ
TP3 – Teach Pendant	R12NZ900N3	Ethernet/IP Fieldbus I/O (Slave)	R12NZ900A7
TP2 – Teach Pendant	R12NZ900L9	DeviceNet Fieldbus I/O (Master)	R12NZ900NX
Tool Mounting Plate	R12NZ900LQ	DeviceNet Fieldbus I/O (Slave)	R12NZ9004F
GUI Builder 7.0	R12NZ920AH	EtherCAT Fieldbus I/O (Slave)	R12NZ900CL
Euromap 67	R12NZ90104	PROFINET Fieldbus I/O (Slave)	R12NZ900A6
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¹ Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) with 1 kg payload (path coordinates optimized for maximum speed). | ² SmartWay is an innovative partnership of the U.S. Environmental Protection Agency that reduces greenhouse gases and other air pollutants and improves fuel efficiency. See the latest innovations from Epson Business Solutions at www.epson.com/forbusiness

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