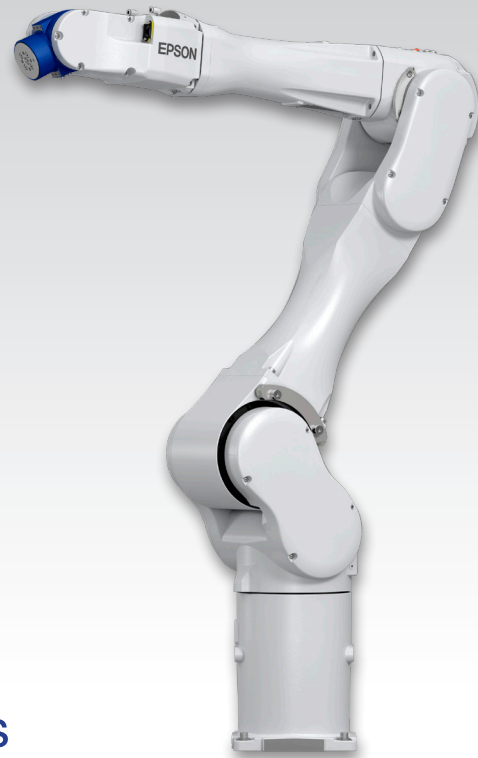


# C12XL 6-Axis Robot



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	
<b>Mounting Type</b>		Tabletop	
<b>Arm Length</b>	P Point: Joints #1 -5 Center	1,400 mm	
	P Point: Joints #1-6 Flange Surface	1,480 mm	
<b>Repeatability</b>		Joints #1 - 6 ± 0.05 mm	
<b>Payload</b>	Rated	3 kg	
	Max.	12 kg	
<b>Standard Cycle Time<sup>1</sup></b>		0.50 sec (1 kg payload)	
<b>Max. Motion Range</b>	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	
<b>Allowable Moment of Inertia</b>	Joint #4	0.70 kg·m <sup>2</sup>	
	Joint #5	0.70 kg·m <sup>2</sup>	
	Joint #6	0.20 kg·m <sup>2</sup>	
<b>User Electric Lines</b>		15-pin (D-sub), 8-pin (RJ45 Cat 5e)	
<b>User Pneumatic Lines</b>		ø6 mm x2	
<b>Brakes</b>		All Axes	
<b>Power</b>		AC 200 - 240 V	
<b>Power Consumption</b>		2.5 kVa	
<b>Power Cable Length</b>		3 m/5 m/10 m	
<b>Weight (cables not included)</b>		63 kg: 138.6 lb	
<b>Applicable Controller</b>		RC700-A	
<b>Installation Environment</b>		Standard or Cleanroom (ISO 4) ESD	
<b>Safety Standards</b>		CE Marking, EMC Directive, Machinery Directive ANSI/RIA R15.06-2012 NFPA79 (2007 Edition)	
<b>What's in the Box</b>		C12XL robot and RC700-A controller Robot power and signal cables Epson <sup>®</sup> RC+ software C12XL Robot System Safety & Installation Manual Connector set (I/O, hand I/O and safety circuit connectors)	
<b>Options</b>			
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
<b>Support</b>			
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Sales Inquiries (562) 290-5997 info@robots.epson.com			

<sup>1</sup> Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) with 1 kg payload (path coordinates optimized for maximum speed). | <sup>2</sup> 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](http://www.epson.com/forbusiness)

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