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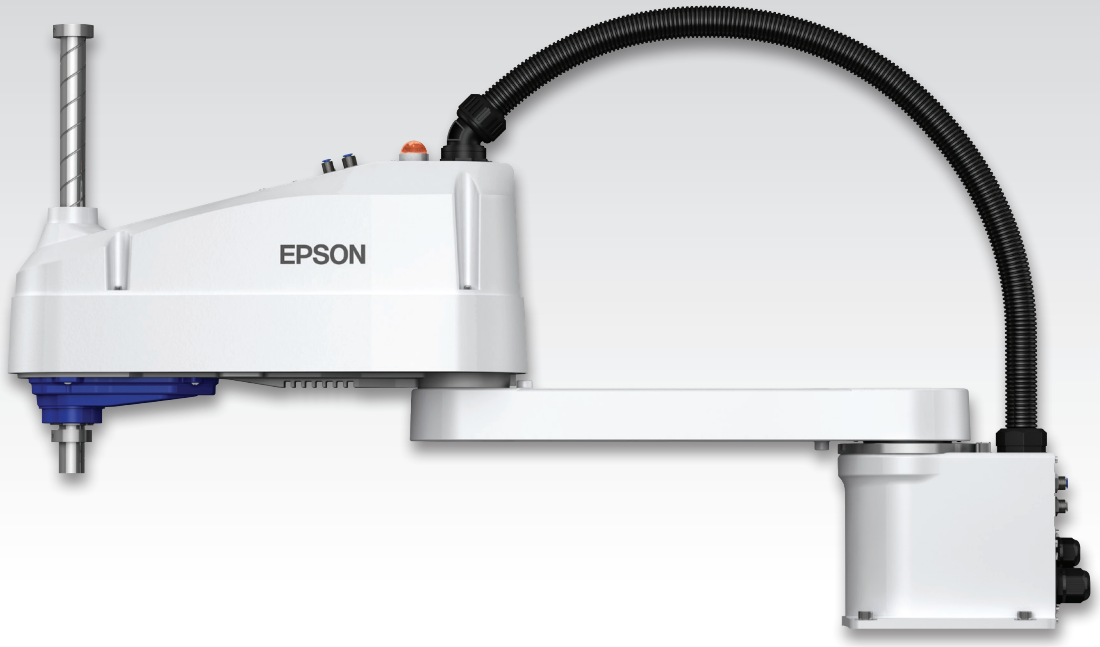
EPSON
EXCEED YOUR VISION

SPECIFICATION SHEET

Robots

SCARA

LS10-B SCARA Robot



Powerful performance and a large payload — all at a great value.

Full featured, ultra low cost — ideal for factories in need of maximum value and performance with high payload requirements

Easy to use — intuitive and feature-packed Epson RC+® Development Software makes it easy to create high-performance solutions

Powerful servo system design — proprietary Epson® gyro sensors allow for low residual vibration

Outstanding acceleration/deceleration rates — smooth start/stop motion

High speed — delivers fast cycle times to maximize part throughput

ISO 4-clean models available — for critical dust-free applications

Powerful arm design — multiple reaches (600, 700 and 800 mm); up to 10 kg payload; multi-tool capable

Integrated options — Vision Guide for robot guidance available; plus, fieldbus interface solutions; RC+ 7.0 API software for open-platform functionality; teach pendants; customizable GUIs

Easy setup — built-in camera cable for optional Vision Guide system; top-of-arm electrical and pneumatic layout with screw holes to mount additional equipment

No battery required for encoder — minimizes downtime and reduces overall cost of ownership



Specifications

Model Name		LS10-B SCARA Robot		
Model Number		**LS10-B60x**	**LS10-B70x**	**LS10-B80x**
Mounting Type		Tabletop		
Arm Length	Joint #1 + Joint #2	600 mm	700 mm	800 mm
Repeatability	Joints #1 - 2	± 0.02 mm	± 0.02 mm	± 0.025 mm
	Joint #3	± 0.01 mm		
	Joint #4	± 0.01 deg		
Payload	Rated	5 kg		
	Max.	10 kg		
Standard Cycle Time[1]		0.39 sec	0.41 sec	0.44 sec
Max. Motion Range	Joint #1	± 132 deg		
	Joint #2	± 150 deg		
	Joint #3 Standard	200 mm/300 mm		
	Joint #3 Clean	170 mm/270 mm		
	Joint #4	± 360 deg		
Allowable Moment of Inertia (Joint #4)	Rated	0.02 kg·m^2		
	Max.	0.3 kg·m^2		
User Electric Lines		15-pin (D-sub), 8-pin (RJ45 Cat 5e)		
User Pneumatic Lines		ø6 mm x2, ø4 mm x1		
Brakes		Z-Axis only		
Power		AC 200 - 240 V Single Phase		
Power Consumption		1.8 kVa		
Power Cable Length		3 m/5 m/10 m		
Weight (cables not included)		22 kg: 48.5 lb		23 kg 50.7 lb
Applicable Controller		RC90-B		
Installation Environment		Standard or Cleanroom (ISO 4)		
Safety Standards		CE Marking: EMC Directive, Machinery Directive KC Mark, KCs Mark ANSI/RIA R15.06-2012 NFPA79 (2007 Edition)		
What's in the Box		LS10-B SCARA Robot and RC90-B Controller Robot power cable Epson RC+ software USB cable E-Stop unit with cable LS10-B Robot System Safety & Installation Manual Connector set (I/O, hand I/O and safety circuit connectors)		
Options				
		Vision Guide CV2		Available
		Vision Guide PV1		Available
		Tool Mounting Plate		R12NZ90037
		OCR (for use with Vision Guide)		R12NZ920H3
		Epson RC+ 7.0 API		R12NZ920AE
		GUI Builder 7.0		R12NZ920AH
		External Control Point (ECP) Option		R12NZ920AF
		TP1 – Teach Pendant		R12NZ900L7
		TP2 – Teach Pendant		R12NZ9005P
		Ethernet/IP Fieldbus I/O (Slave)		R12NZ900A7
		DeviceNet Fieldbus I/O (Slave)		R12NZ9004F
		PROFINET Fieldbus I/O (Slave)		R12NZ900A6

1 Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2 kg payload (path coordinates optimized for maximum speed).

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