

# Cost-effective solution for tooling applications



## Affordable, versatile and flexible automation for tooling applications

The Epson LS-B series deliver both value and performance, offering precision accuracy and power, as well as being cost-effective with low acquisition and operating costs.

### Affordable automation solution

Lower purchase price thanks to removal of conventional Z-axis.

### Versatile application options

Can handle a range of tools for screwing, dispensing and cutting and more.

### Easy tool installation

Robot includes adapter plate<sup>1</sup>, allowing a range of tools to be fixed to the robot.

<sup>1</sup> Adapter plate can be mounted in different orientations.

## Technical specifications

Model name		LS20-BA00S
Arm length (mm)*1	Arms #1+ #2	1000
	Arm #1	550
	Arm #2	450
Max. operation speed*2	Joints #1+#2 (mm/s)	11250
	Joint #3 (mm/s)	–
	Joint #4 (°)	–
Max. motion range	Joint #1	±132°
	Joint #2	±152°
	Joint #3	–
	Joint #4	–
Repeatability	#1+ #2 (mm)	+/- 0.025
	Joint #3 (mm)	–
	Joint #4 (°)	–
Payload (kg)	Rated	10
	Max.	20
Mounting (mm)		200 x 200
Weight (cables not included) (kg)		48
Driving method	All joints	AC servo motor
Motor rated capacity (W)	Joint #1	750
	Joint #2	520
	Joint #3	–
	Joint #4	–
Installed wire for customer use		15 pin: D-sub, 9 pin: D-sub Equivalent to 8 pin (RJ45) Cat.5e
Installed pneumatic tube for customer use		2 pneumatic tubes (ø8 mm): 0.59 MPa (6 kgf/cm²: 86 psi)
		2 pneumatic tubes (ø6 mm): 0.59 MPa (6 kgf/cm²: 86 psi)
Environmental requirements	Ambient Temperature	5 to 40 °C
	Ambient relative humidity	10 ~ 80% (no condensation)
Noise level**3		L <sub>Aeq</sub> = 70 dB (A) or under
Applicable Controller		RC90-B
Safety standard		CE Marking EMC Directive, Machinery Directive, RoHS Directive

\*1: An additional offset of 90 mm is given by the tool holder, resulting in a total arm length of 1090 mm.

\*2: In the case of PTP command. Maximum operating speed for CP command is 2000 mm/s on horizontal plane.

\*3: Conditions of Manipulator during measurement as follows: Operating conditions : Under rated load, simultaneous motion, maximum speed, maximum acceleration, and duty 50%. Measurement point: Rear of the Manipulator, 1000 mm apart from the motion range, 50 mm above the base-installed surface.

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