



Industrial robots

# Motor-less Single Axis Actuator Advanced model Timing Belt Drive type LGBS

For high-speed, long-distance transport, these single axis robots are the ideal solution.

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## Specification

	Feature	Specification	Catalog
Model	LGBS10	LGBS14	
Motor Output AC (W)	100W	200W	
Repeatability (mm) <sup>*1</sup>	±0.04	±0.04	
Stroke (mm)	150 to 3000 (50 mm pitch)		150 to 3000 (50 mm pitch)
Maximum speed (mm/sec) (equivalent) <sup>*2</sup>	2250	3750	2250
Belt	Equivalent to 30-mm Lead	Equivalent to 50-mm Lead	Equivalent to 30-mm Lead

Model		LGBS10		LGBS14	
Maximum Payload (kg) <sup>*3</sup>	Horizontal	12		8	30
Maximum dimensions of cross-section of main unit (mm)		W100mm x H81mm		W140mm x H83mm	
Overall length (mm)	L/R Specifications	ST+404.5mm		ST+477mm	
	Other than the above	ST+332.5mm		ST+405mm	
Degree of Cleanliness <sup>*4</sup>		Equivalent to ISO Class 3 (ISO 14644-1)		Equivalent to ISO Class 3 (ISO 14644-1)	
Intake Air (Nℓ/min) <sup>*5</sup>		60 -70		90	
Using ambient temperature and humidity <sup>*6</sup>		0 - 40 °C, 35 - 80% RH (no condensation)		0 - 40 °C, 35 - 80% RH (no condensation)	
Motor Output AC (W)		200W		400W	
Belt		Equivalent to 50-mm Lead	Equivalent to 30-mm Lead	Equivalent to 50-mm Lead	Equivalent to 30-mm Lead
Maximum Payload (kg)	Horizontal	18	35	30	60

\*1: Repeatability for Single-direction Positioning

\*2: Maximum speed may not be reached when the movement distance is short or under some operating conditions.

\*3: Maximum payload values assume that the mounted motor outputs its rated torque.

\*4: When using the unit in a clean environment, install the intake-air fitting.

Cleanliness rating applies when operated at speeds of 1000 mm/s or below.

\*5: Required intake-airflow varies depending on usage conditions and environment.