

Single axis robots Robonity Advanced model Timing Belt Drive type AGBS

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

Print

Feature Specification Catalog

Specification

Model	AGBS10		AGBS10H		AGBS14		AGBS14H	
Motor Output AC (W)	100		200		200		400	
Repeatability (mm) ^{*1}	±0.04							
Stroke (mm)	150 to 3000 (50mm pitch)				150 to 4000 (50mm pitch)			
Maximum speed (mm/sec) (equivalent) ^{*2}	2250		3750		2250		3750	
Belt	Equivalent to 30-mm Lead		Equivalent to 50-mm Lead		Equivalent to 30-mm Lead		Equivalent to 50-mm Lead	
Maximum Payload (kg)	Horizontal		12		18		35	
			8		30		60	
Maximum dimensions of cross-section of main unit (mm)	W100 x H81				W140 x H83			

Model		AGBS10	AGBS10H	AGBS14	AGBS14H
Overall length (mm)	L/R Specifications	ST+404.5		ST+477	
	Other than the above	ST+332.5		ST+405	
Degree of Cleanliness ^{*4}		Equivalent to ISO Class 3 (ISO 14644-1)			
Intake (N) Air ^{*5}		60-70		90	
Position Detection		Absolute Encoder			
		Batteryless Absolute Encoder			
Resolution		23 bits			
Using ambient temperature and humidity ^{*5}		0 - 40 °C, 35 - 80% RH (no condensation)			

*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: 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.

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

*5: When operating in low-temperature environments, a deviation error may occur when starting from a stopped state.

In such cases, reduce the speed to 50% or less and run the unit for at least one full cycle before setting it to the desired operating speed.

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Single axis robots Robonity Advanced model AGXS

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**Single axis robots Robonity
Basic model Slider type
ABAS**

Single-axis robots feature high rigidity, compact design, and low cost. A wide range of lead variations allows you to select optimal specifications.



**Single axis robots FLIP-X
Series (Electric slider)**

FLIP-X series include many models of 6 types and 29 variations for a wide range of applications.



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