

Motorless single axis actuator Robonity series

Basic model "LBAS" Advanced model "LGXS"

● Basic model (LBAS)

Model	Adaptive motor (W)	Repeat position Determination accuracy (± mm) ^{*1}	Deceleration mechanism	Stroke (mm)	Maximum speed (mm/sec) ^{*2}	Ball screw lead (mm)	Maximum payload ^{*3} (kg)		Rated thrust (N) ^{*3}	Body maximum Cross-sectional outline (mm)	Full length (mm)	Usage environment temperature humidity
							Horizontal	Vertical				
LBAS04	50	±0.01	Rolled ball screw φ10 (C7 class)	50 ~ 800 (50 pitch)	800	12	12	2	71	W 44 × H 52	ST+214	0-40 °C , 35-80% RH (No condensation)
LBAS05	100				400	6	20	5	141			
LBAS08	200		Rolled ball screw φ12 (C7 class)	1333	20	12	3	84	84	169	339	
			Rolled ball screw φ16 (C7 class)	50 ~ 1100 (50 pitch)	1200	20	40	8	174	W 82 × H 78	ST+278	
					600	10	80	20	341			
					300	5	100	30	683			

* 1 : Repeated positioning accuracy with one swing

* 2 : The maximum speed may not be reached depending on the short travel distance or operating conditions.

* 3 : The rated thrust and maximum payload are values assuming that the installed motor outputs the rated torque.

● Advanced model (LGXS)

Model	Adaptive motor (W)	Repeat position Determination accuracy (± mm) ^{*1}	Deceleration mechanism	Stroke (mm)	Maximum speed (mm/sec) ^{*2}	Ball screw lead (mm)	Maximum payload ^{*3} (kg)		Rated thrust (N) ^{*3}	Body maximum Cross-sectional outline (mm)	Full length (mm)	Clean degree ^{*4}	Amount of suction (Nℓ / min) air ^{*5}	Usage environment temperature humidity			
							Horizontal	Vertical									
LGXS05	50	±0.005	Grinding ball screw φ12 (C5 grade)	50 ~ 800 (50 pitch)	1333	20	5	2	41	W 48 × H 65	ST+131.5	ISO CLASS 3 (ISO14644-1) Equivalent	30~100	0-40 °C , 35-80% RH (No condensation)			
LGXS05L	100				666	10	8	4	69		ST+161.5						
LGXS07					333	5	12	3	84								
			50 ~ 1100 (50 pitch)	1800	30	1200	20	10	2	56	W 70 × H 76.5		ST+202		30~115		
LGXS10	200															600	10
			100 ~ 1250 (50 pitch)	1800	30	1200	20	100	30	113	W 100 × H 99.5		ST+175.5		30~90		
LGXS12	400															600	10
		300										5		50		15	339
		Grinding ball screw φ20 (C5 grade)	100 ~ 1450 (50 pitch)	2400	1200	40	45	12	320	W 160 × H 130	ST+242.5						
LGXS16	750												20	95	28	640	
LGXS20													10	65	15	1280	W 200 × H 140
				600	600	10	65	15	130	35							
							160	65									

* 1 : Repeated positioning accuracy with one swing

* 2 : The maximum speed may not be reached depending on the short travel distance or operating conditions.

* 3 : The rated thrust and maximum payload are values assuming that the installed motor outputs the rated torque.

* 4 : When using in a clean environment, attach a suction air-joint. The cleanliness is the degree of cleanliness when used at 1000 mm / sec or less.

* 5 : The required suction amount varies depending on the usage conditions and environment.