Slider type

■ Ordering method



10 mm

No entry: Standard T-groove (right side 50 to 800 (50 mm pitch)

This system is provided as mechanical actuator unit and not including any adopters or electric components. Motor, driver and other components required for installation are the user's responsibility. Refer to user's manual for installation details. Refer to your motor manual for tuning or adjustment. Vibration or resonance from actuator will affect service life of actuator. The product performance may not be satisfied depending on the compatible motor. The bending unit cannot be used for the high agility mode.

■ Specifi	cation	ıs								
Applicable mo		100 W								
Repeatability N		+/-0.005 mm								
Deceleration mechanism		Grour	nd ball screv (C5 class)	ν φ 12						
Stroke		50 mm to 8	300 mm (50	mm pitch)						
Maximum speed (or equivalent)	Note 2	1333 mm/sec	666 mm/sec	333 mm/sec						
Ball screw lead	t	20 mm	10 mm	5 mm						
Maximum	Horizontal	12 kg	24 kg	32 kg						
payload Note 3 (or equivalent)	Vertical	3 kg	6 kg	12 kg						
Rated thrust No (or equivalent)		84 N	169 N	339 N						
Maximum dimen cross section of		W 48	mm × H 65	5 mm						
Overall length		S ⁻	T + 161.5 m	m						
Degree of cleanl	iness Note 4		ASS 3 (ISO or equivalen							
Intake air Note 5		30 Ne/	min to 100	Nℓ/min						
Using ambient temperature and	humidity		°C, 35 to 8 n-condensi							

Note 1. Positioning repeatability in one direction.

Note 2. When a moving distance is short and depending on an operation condition, it may not reach the maximum

an operation condition, it may not reach the maximum speed. If the effective stroke exceeds 600 mm, the ball screw may resonate. (Critical speed)
At this time, make the adjustment to decrease the speed while referring to the maximum speed shown in the table. The rated thrust and maximum transferable weight are values assuming the attached motor outputs the rated torque.

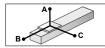
When using in a clean environment, attach a suction air joint. The degree of cleanliness is the cleanliness level achieved when using at 1000 mm/sec or less.

The required suction amount will vary according to the Note 4.

Note 5. operating conditions and operating environment.

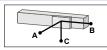
Note. See P.117 for acceleration/deceleration and inertia moment.

Allowable overhang Note



608

133 104





Ā						
Vertical in	stallation	(Unit: mm)				
	A C					
TOTALOGIA						
1kg						

3kg 478 478

(Unit: mm) Horizontal installation Wall installation (Unit: mm) В С В С Α 3kg 1755 559 426 3kg 396 486 1594 8kg 737 200 153 8kg 106 128 525 730 2kg

12kg

12kg LGXS05L-10

I GXS051 -20

Horizon	tal insta	lation	(Unit: mm)	Wall in	stallati	on (Jnit: mm)	Vertical installation (Unit: mm)				
	Α	В	С		Α	В	С		Α	С		
6kg	2416	389	333	6kg	277	316	2192	4kg	555	555		
12kg	1397	187	161	12kg	101	115	1084	6kg	360	360		
24kg	875	87	74	24kg	12	14	276					

52 61 329

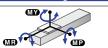
I GXS051 -5

			, ,	wan iii	stallati	on (Vertical installation (Unit: mm)			
	Α	В	С		Α	В	С		Α	С
10kg	3127	254	225	10kg	162	181	2800	5kg	501	501
20kg	1841	120	106	20kg	42	47	1273	10kg	235	235
32kg 1	1554	70	62	32kg	0	0	0	12kg	190	190

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

Note. Service life is calculated for 600 mm stroke models.

Static loading moment



		(Unit: N·m)
MY	MP	MR
72	72	64

Adaptable Servo Motor

Specification

Flange size ☐ 40

\	Nattage	100 W					
Manufacturer	Model						
Yaskawa	SGMJV-01						
Electric Corp.	SGM7J-01						
Keyence	SV- □ 010						
Corp.	SV2- 010)					
	HF-KP13 ^N	ote					
Mitsubishi Electric Corp.	HG-KR13	Vote					
Licotilo corp.	HK-KT13 ^N	ote					
Omron	R88M-K10030						
Electronics	R88M-1M10030 Note						
Panasonic Corp.	MHMF01						

Conversion adapter product model	Shim plate part number
GX-BEND-40	KES-M2295-00

Note. To combine with the conversion adapter <GX-BEND-40>, the shim

LGXS05L-5 Vertical installation (Unit: m

> 1kg 1555 1555

2kg 762

4kg 365 365

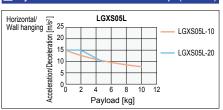
Α С

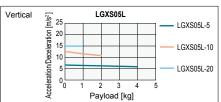
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When used with high acceleration or deceleration (High agility mode)

■ Specifications Stroke 50 mm to 550 mm (50 mm pitch) Ball screw lead 20 mm 10 mm 5 mm Maximur payload Maximum acceleration 14.72 m/s² (1.5 G) 14.72 m/s² (1.5 G) Maximum 1 kg 2 kg 4 kg payload Vertical 14.72 m/s² (1.5 G) 12.68 m/s² (1.3 G)

Payload - Acceleration / Deceleration Graph (Estimate)





■ Allowable overhang Note

Company												
	Α	В	С		Α	В	С		Α	С		
2kg	675	501	332	2kg	294	428	626	1kg	728	728		
5kg	330	191	131	5kg	87	118	251					

LGXS05L-10

Horizon	tal insta	llation	(Unit: mm)	Wall in	stallati	on (Jnit: mm)	Vertical installation (Unit: mm				
	Α	В	С		Α	В	С		Α	С		
3kg	1208	469	385	3kg	331	396	1144	1kg	1298	1298		
6kg	665	227	188	6kg	131	155	580	2kg	636	636		
10kg	441	130	108	10kg	49	58	315			.,		

a guide service life of 10,000 km

Note. Service life is calculated for 550 mm stroke models.

Note. Distance from center of slider top to center of gravity of object being carried at

■ Effective stroke and maximum speed during high acceleration or deceleration

Effective stroke Maximum Lead 20		50	100	150	200	250	300	350	400	450	500	550
Maximum	Lead 20						1333					
speed	Lead 10						666					
(mm/sec)	Lead 5						333					

Note. The bending unit cannot be used for the high agility mode

Note. The high agility mode is used in an effective stroke range of 50 to 550 (50 mm pitch).

Note. There is no critical speed setting. The maximum speed can be set for a selectable stroke.

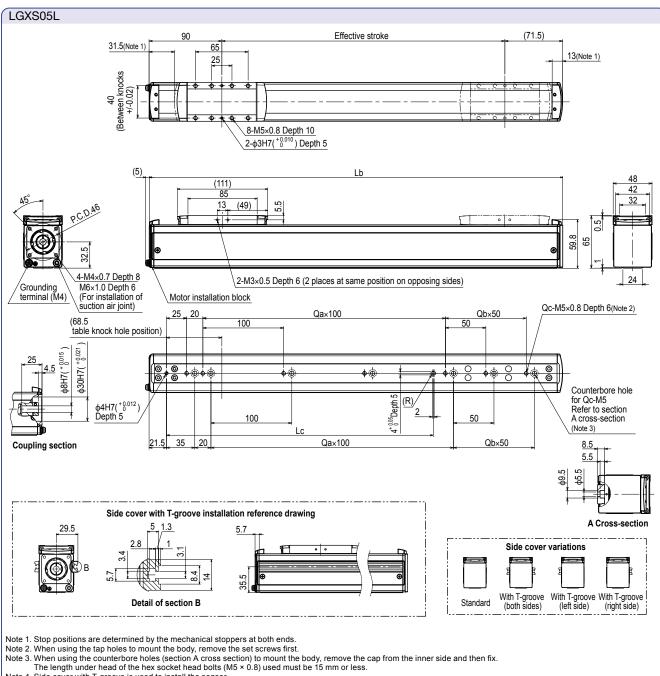
The speed may not reach the maximum speed if the movement distance is short or depending on the

operating conditions.

Note. See P.118 for acceleration/deceleration and inertia moment.



▶ The cycle time simulation and service life calculation can be performed easily from our member site. For details, see P.16.



- Note 4. Side cover with T-groove is used to install the sensor. Note 5. Grease gun nozzle (recommended) (see P.143 for detail)

Effect	tive stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
	Lb	211.5	261.5	311.5	361.5	411.5	461.5	511.5	561.5	611.5	661.5	711.5	761.5	811.5	861.5	911.5	961.5
	Lc	130	130	130	130	330	330	330	330	330	330	630	630	630	630	630	630
	Qa	1	1 1 1 3 3 3 3 3 6 6							6	6	6	6				
	Qb	0	0 1 2 3 0 1 2 3 4 5 0 1								2	3	4	5			
Qc 3 4 5 6 5 6 7 8						9	10	8	9	10	11	12	13				
We	ight (kg)	1.4	1.5	1.7	1.8	2.0	2.2	2.3	2.5	2.6	2.8	2.9	3.1	3.2	3.4	3.5	3.7
	Lead 20		1333										1066	933	800	666	
Maximum speed	Maximum Lead 10 666										532	466	400	333			
(mm/sec)	Lead 5		333												233	200	166
,,	Speed setting													80%	70%	60%	50%