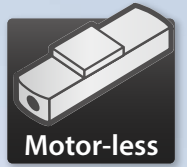


In-Position Technologies

www.iptech1.com | (877) 478-3241 | help@iptech1.com



Your choice of Motor
and Driver System

Motor-less Single Axis Actuator

NEW

Robonity series



Wide selection of payload and speed requirements

Choice of ball screw leads

Wide selection stroke range

Choice of stroke range from
50 mm up to 1450 mm

(Advanced model LGXS only)

LBAS

High Rigidity

Compact

Low Cost

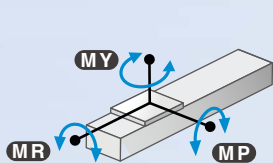
Maximum payload 2 kg to 100 kg
Maximum speed 133 to 1,333 mm/sec
Stroke 50 to 1,100 mm



Newly designed integrated guide rail/frame structure.
 Improved moment load capacity in compact frame size.
 Designed to accommodate motors from most leading manufacturers.

High Rigidity

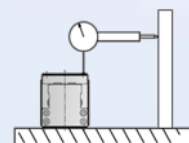
Moment rigidity is increased approximately three times from current models.



	Existing product T6L	NEW LBAS05		Existing product T9H	NEW LBAS08
MY	35	59	MP	86	221
MP	40	63	MR	133	309
MR	50	103		117	343
		(N · m)			(N · m)

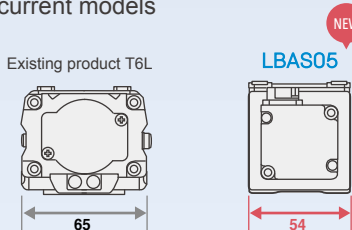
High Precision

Straightness (running parallelism):
 +/-0.02/800 mm

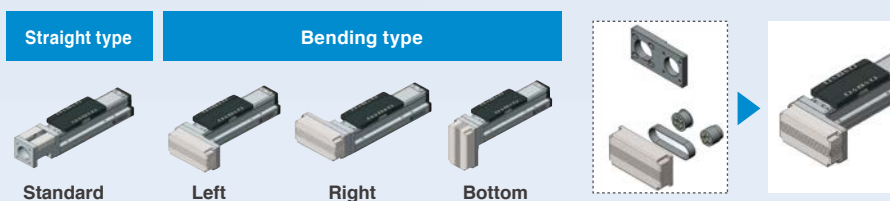


Compact

Frame width is reduced by approximately 20% from current models

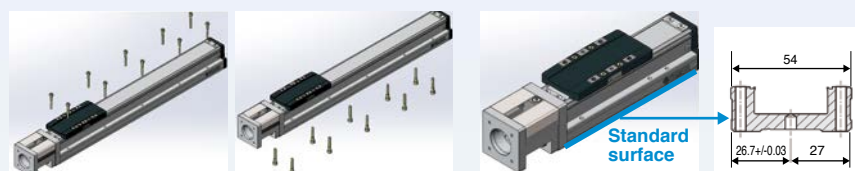


Motor attaching direction, Easily changeable with the special bending part



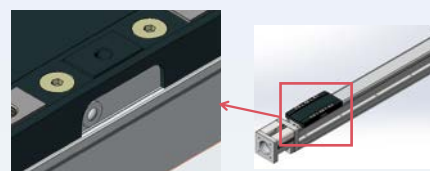
Installation process is simple and easy

1. Mounting holes are accessible from top or bottom without disassembling actuator unit.
2. Standard surface on the side and dowel pin holes on the bottom.



Easy Maintenance

Moving parts can be lubricated from outside without opening actuator



Grease nipple on the slider side surface

LGXS



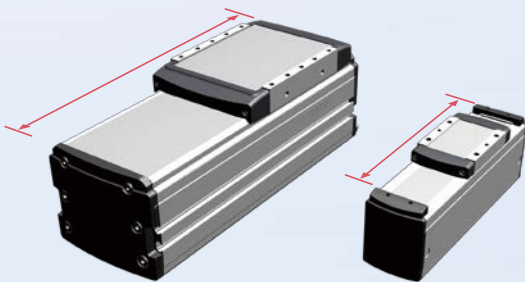
- High Precision Accuracy Class C5
- High Durability
- Clean specification as a standard feature

Maximum payload	2 kg to 160 kg
Maximum speed	300 to 2,400 mm/sec
Stroke	50 to 1,450 mm

Higher efficiency, accuracy, and reliability from ground ball screw.
Ideal for base axis of multi-axis configuration.

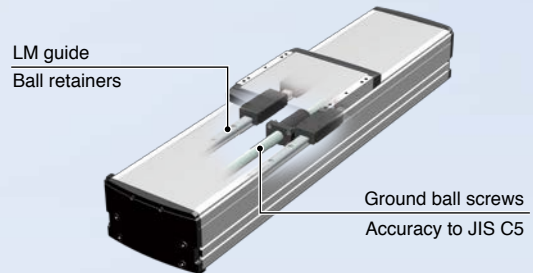
Shortest Overall Length

The industry's shortest class is achieved for the total length in relation to the effective stroke.



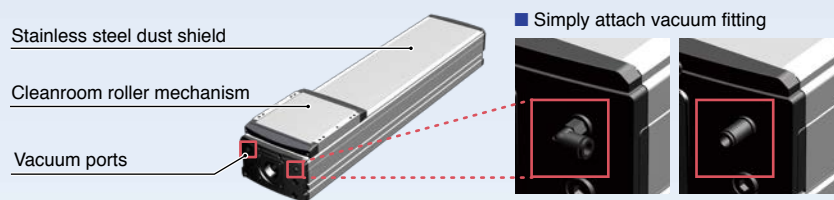
High Precision

- Adopted ground ball screws
Ball screw Remove Accuracy: Accuracy class C5
- Positioning Remove Accuracy repeatability: $\pm 5 \mu\text{m}$



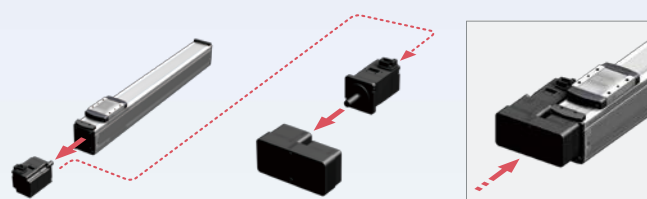
Cleanroom Ready Design

- Protective stainless dust shield
- Ports are ready for vacuum fittings



Motor orientation is changeable with optional conversion unit

Motor unit of standard straight type can be used for side-mount setup.



Standard + Conversion adapter ▶ Right attachment of bending

Features

Basic model
LBAS

LBAS
Acceleration/Deceleration
Inertia Moment

Advanced model
LGXS

LGXS
Acceleration/Deceleration
Inertia Moment

Option

LBAS04 Basic model

Motor-less Single Axis Actuator

Ordering method

LBAS04				
Model	Lead designation	Shape	Motor specification	Stroke
	12: 12 mm 6: 6 mm	S: Straight A: Bending	Y: Y specification (see below) P: P specification (see below)	50 to 800 (50 mm pitch)

[Caution]

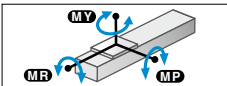
This system is provided as mechanical actuator unit and not including any adapters or electric components. Motor, driver and other components required for installation are user's responsibility. Refer to user's manual for installation details. Refer to your motor manual for tuning or adjustment. Vibration or resonance from actuator will affect service life of actuator. The product performance may not be satisfied depending on the compatible motor. For special parts for motor installation, install and adjust on your side.

Specifications

Adaptable motor	50 W	
Repeatability <small>Note 1</small>	±0.01 mm	
Deceleration mechanism	Shifting position ball screw φ 10 (C7 class)	
Stroke	50 mm to 800 mm (50 mm pitch)	
Maximum speed <small>Note 2</small> (or equivalent)	800 mm/sec	400 mm/sec
Ball screw lead	12 mm	6 mm
Maximum payload <small>Note 3</small> (or equivalent)	Horizontal	12 kg / 20 kg
	Vertical	2 kg / 5 kg
Rated thrust <small>Note 3</small> (or equivalent)	Horizontal	71 N / 141 N
	Vertical	71 N / 141 N
Maximum dimensions of cross section of main unit	W 44 mm × H 52 mm	
Overall length	ST + 214 mm	
Using ambient temperature and humidity	0 to 40 °C, 35 to 80 %RH (non-condensing)	

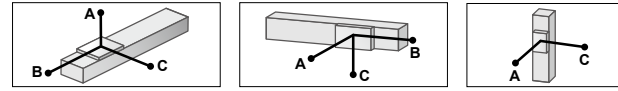
Note 1. Positioning repeatability in one direction.
 Note 2. When a moving distance is short and depending on an operation condition, it may not reach the maximum speed.
 If the effective stroke exceeds 500 mm, the ball screw may resonate. (Critical speed)
 At this time, make the adjustment to decrease the speed while referring to the maximum speed shown in the table.
 Note 3. The rated thrust and maximum transferable weight are values assuming the attached motor outputs the rated torque.
 Note. See P.10 for acceleration/deceleration and inertia moment.

Static loading moment



	(Unit: N·m)		
	MY	MP	MR
	54	54	75

Allowable overhang Note



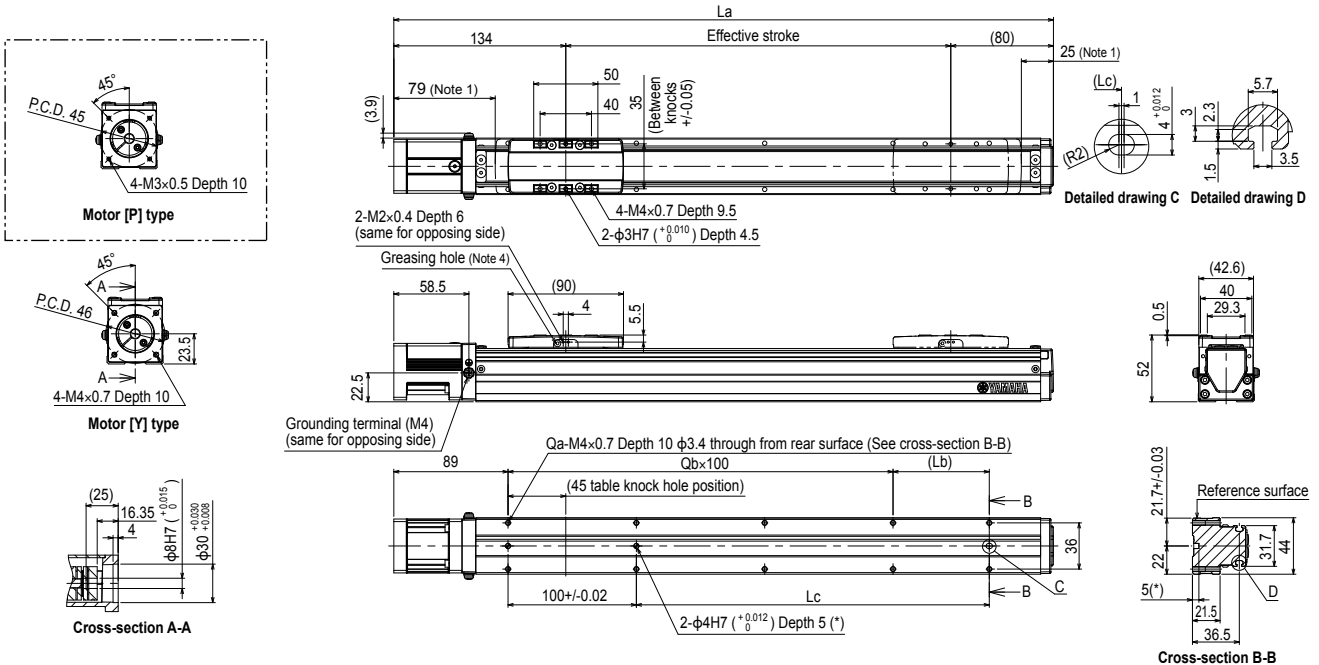
LBAS04-12			
Horizontal installation (Unit: mm)			
	A	B	C
2kg	1187	271	325
8kg	473	62	77
12kg	431	41	53
Wall installation (Unit: mm)			
	A	B	C
2kg	325	271	1187
8kg	77	62	473
12kg	53	41	431
Vertical installation (Unit: mm)			
	A	C	
1kg	534	534	
2kg	265	265	
LBAS04-6			
Horizontal installation (Unit: mm)			
	A	B	C
4kg	1808	155	217
12kg	801	47	65
20kg	546	25	35
Wall installation (Unit: mm)			
	A	B	C
4kg	217	155	1808
12kg	60	42	756
20kg	35	25	546
Vertical installation (Unit: mm)			
	A	C	
1kg	639	639	
3kg	208	208	
5kg	122	122	

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 500 mm stroke models.

Adaptable Servo Motor

Specification	Flange size	□40
	Wattage	50 W
Note. Motor models marked with * may not be 50W, but can be installed.		
Motor specification	Manufacturer	Model
Y	Yaskawa Electric Corp.	SGMJV-A5
		SGM7J-A5
	Keyence Corp.	SV-□005
		SV2-□005
	Mitsubishi Electric Corp.	HF-KP053
		HG-KR053
		HK-KT053
	Omron Electronics	R88M-K05030
		R88M-1M05030
	Sanyo Denki	R2□ A04005
	Tamagawa Seiki	TSM3102
	Delta Electronics	ECMA-C1040F
	Fanuc Corp.	β IS0.2/5000
	Siemens	1FK2102-0AG
		1FL6022-2AF
Schneider	BCH2MBA53	
Beckhoff	AM3011B *	
Allen-Bradley	TLY-A120 *	
P	Panasonic Corp.	MSMD5A
		MSMF5A

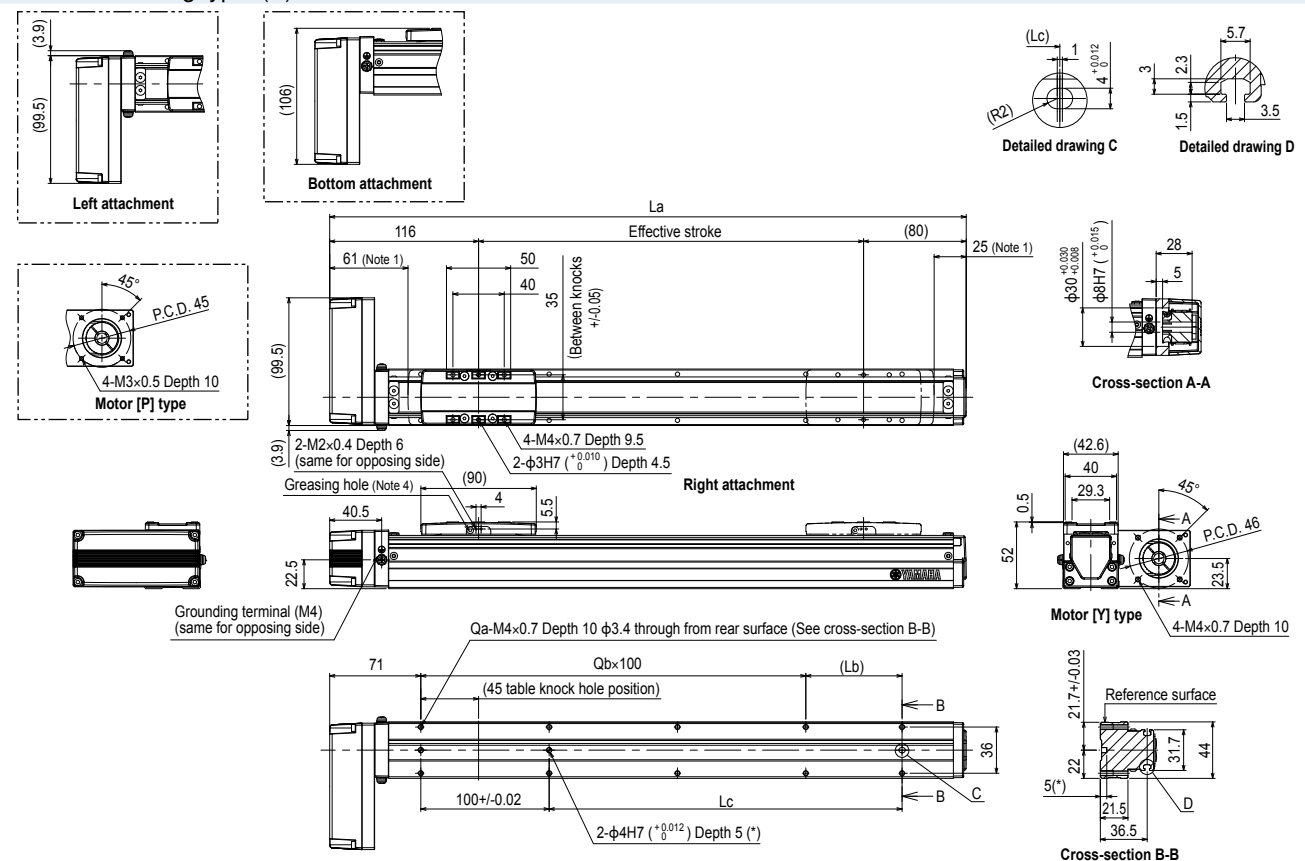
LBAS04 Straight type (S)



Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800		
La	264	314	364	414	464	514	564	614	664	714	764	814	864	914	964	1014		
Lb	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75		
Lc	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775		
Qa	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20		
Qb	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8		
Weight (kg)	0.9	1.1	1.3	1.5	1.6	1.8	2	2.2	2.4	2.5	2.7	2.9	3.1	3.3	3.4	3.6		
Maximum speed (mm/sec)	Lead 12											800	720	600	480	400	360	320
	Lead 6											400	360	300	240	200	180	160
Speed setting											-	90%	75%	60%	50%	45%	40%	

Note 1. Stop positions are determined by the mechanical stoppers at both ends.
 Note 2. Please perform installation and adjustment on the special parts for motor installation by the customer. For detail, refer to the manual.
 Note 3. For the installation through hole, the length under head << 30 mm or more >> is recommended for the hex socket head bolts <M3 × 0.5>. In the installation tap hole, the length under head << thickness of stand + 10 mm or less >> is recommended for the hex socket head bolts <M4 × 0.7> used to install the main unit. Nozzle set for greasing (recommended) (see P.34 for detail)
 Note 4. Nozzle set for greasing (recommended) (see P.34 for detail)
 Part number: KFU-M3861-00

LBAS04 Bending type (A)



Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
La	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
Lb	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
Lc	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
Qa	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
Qb	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
Weight (kg)	1.1	1.2	1.4	1.6	1.8	1.9	2.1	2.3	2.5	2.7	2.8	3	3.2	3.4	3.6	3.7
Maximum speed (mm/sec)	Lead 12	800									720	600	480	400	360	320
	Lead 6	400									360	300	240	200	180	160
Speed setting	-										90%	75%	60%	50%	45%	40%

Note 1. Stop positions are determined by the mechanical stoppers at both ends.

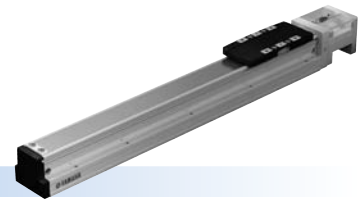
Note 2. Please perform installation and adjustment on the special parts for motor installation by the customer. For detail, refer to the manual.

Note 3. For the installation through hole, the length under head << 30 mm or more >> is recommended for the hex socket head bolts <M3 x 0.5>. In the installation tap hole, the length under head << thickness of stand + 10 mm or less >> is recommended for the hex socket head bolts <M4 x 0.7> used to install the main unit.

Note 4. Nozzle set for greasing (recommended) (see P.34 for detail)
 Part number: KFU-M3861-00

LBAS05

Basic model



Motor-less Single Axis Actuator

Ordering method

LBAS05				
Model	Lead designation	Shape	Motor specification	Stroke
	20: 20 mm 10: 10 mm 5: 5 mm 2: 2 mm	S: Straight A: Bending	Y: Y specification (see below) P: P specification (see below)	50 to 800 (50 mm pitch)

[Caution]

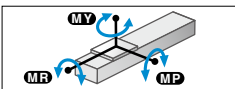
This system is provided as mechanical actuator unit and not including any adaptors or electric components. Motor, driver and other components required for installation are user's responsibility. Refer to user's manual for installation details. Refer to your motor manual for tuning or adjustment. Vibration or resonance from actuator will affect service life of actuator. The product performance may not be satisfied depending on the compatible motor. For special parts for motor installation, install and adjust on your side.

Specifications

Adaptable motor	100 W	
Repeatability ^{Note 1}	+/-0.01 mm	
Deceleration mechanism	Shifting position ball screw ϕ 12 (C7 class)	
Stroke	50 mm to 800 mm (50 mm pitch)	
Maximum speed ^{Note 2} (or equivalent)	1333 mm/sec 666 mm/sec 333 mm/sec 133 mm/sec	
Ball screw lead	20 mm 10 mm 5 mm 2 mm	
Maximum payload ^{Note 3} (or equivalent)	Horizontal	12 kg 24 kg 40 kg 45 kg
	Vertical	3 kg 6 kg 12 kg 15 kg
Rated thrust ^{Note 3} (or equivalent)	84 N 169 N 339 N 854 N	
Maximum dimensions of cross section of main unit	W 54 mm x H 60 mm	
Overall length	ST + 220.5 mm	
Using ambient temperature and humidity	0 to 40 °C, 35 to 80 %RH (non-condensing)	

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 speed. If the effective stroke exceeds 550 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.
 Note 3. The rated thrust and maximum transferable weight are values assuming the attached motor outputs the rated torque.
 Note. See P.11 for acceleration/deceleration and inertia moment.

Static loading moment



(Unit: N·m)		
MY	MP	MR
59	63	103

Allowable overhang ^{Note}

LBAS05-20			
Horizontal installation (Unit: mm)	Wall installation (Unit: mm)		
	A	B	C
2kg	549	324	272
8kg	155	73	65
12kg	117	46	42

LBAS05-10			
Horizontal installation (Unit: mm)	Wall installation (Unit: mm)		
	A	B	C
5kg	769	178	213
15kg	314	53	64
24kg	216	29	36

LBAS05-5			
Horizontal installation (Unit: mm)	Wall installation (Unit: mm)		
	A	B	C
10kg	921	97	131
25kg	459	33	45
40kg	436	17	23

LBAS05-2			
Horizontal installation (Unit: mm)	Wall installation (Unit: mm)		
	A	B	C
15kg	2685	78	109
30kg	1833	34	47
45kg	2621	19	27

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 500 mm stroke models.

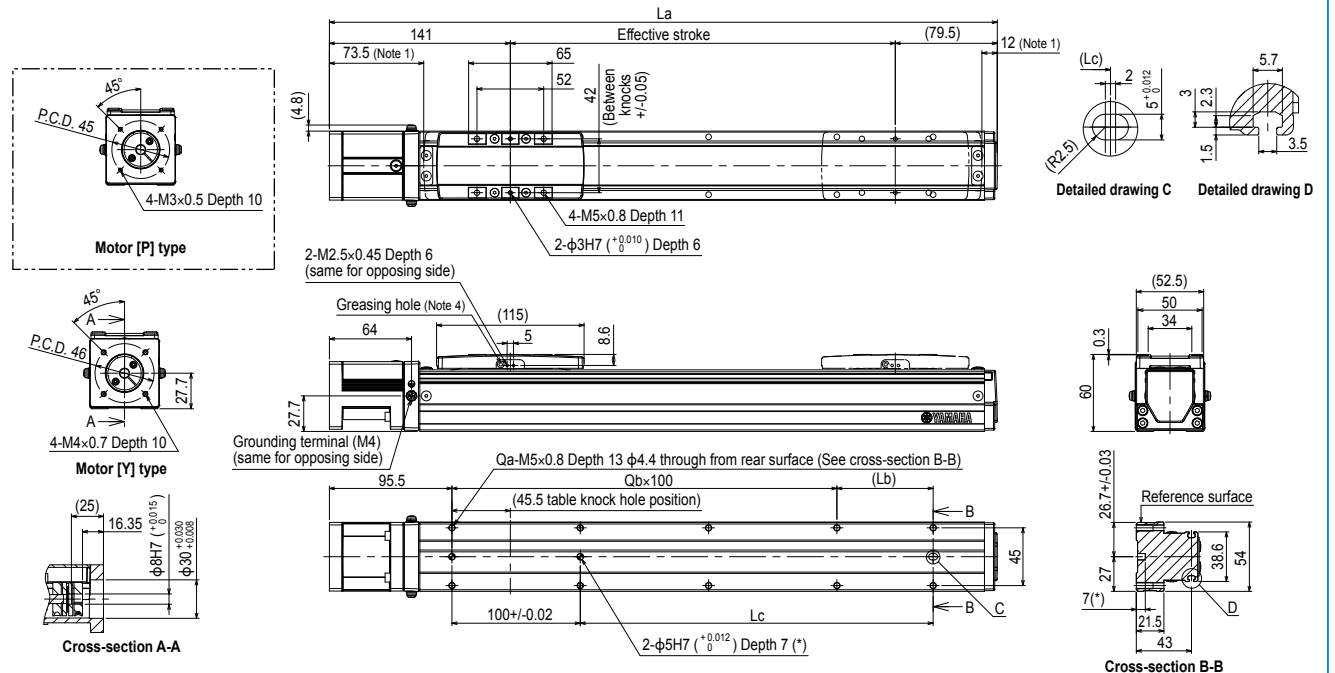
Adaptable Servo Motor

Specification	Flange size <input type="checkbox"/> 40
	Wattage 100 W

Note. Motor models marked with * may not be 100W, but can be installed.

Motor specification	Manufacturer	Model
Y	Yaskawa Electric Corp.	SGMJV-01 SGM7J-01
	Keyence Corp.	SV- <input type="checkbox"/> 010 SV2- <input type="checkbox"/> 010
	Mitsubishi Electric Corp.	HF-KP13 HG-KR13 HK-KT13
	Omron Electronics	R88M-K10030 R88M-1M10030
	Sanyo Denki	R2 <input type="checkbox"/> A04010
	Tamagawa Seiki	TSM3104
	Delta Electronics	ECMA-C10401
	Fanuc Corp.	β IS0.3/5000 KSM A01L <input type="checkbox"/> S KSM A01LG
	Kingserve	1FK2102-1AG 1FL6024-2AF
	Siemens	BCH2MB013
Schneider	AM3012C *	
Beckhoff	TLY-A130 *	
Allen-Bradley	MSMD101	
P	Panasonic Corp.	MSMF01

LBAS05 Straight type (S)



Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
La	270.5	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5
Lb	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
Lc	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
Qa	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
Qb	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
Weight (kg)	1.6	1.8	1.9	2.1	2.4	2.5	2.5	2.7	2.8	2.9	3.1	3.3	3.4	3.6	3.7	4.1
Maximum speed (mm/sec)	Lead 20	1333										1133	933	799	666	599
	Lead 10	666										566	466	399	333	299
	Lead 5	333										283	233	199	166	149
	Lead 2	133										113	93	79	66	59
Speed setting	-										85%	70%	60%	50%	45%	

Note 1. Stop positions are determined by the mechanical stoppers at both ends.
 Note 2. Please perform installation and adjustment on the special parts for motor installation by the customer. For detail, refer to the manual.
 Note 3. For the installation through hole, the length under head << 30 mm or more >> is recommended for the hex socket head bolts <M4 x 0.7>. In the installation tap hole, the length under head << thickness of stand + 10 mm or less >> is recommended for the hex socket head bolts <M5 x 0.8> used to install the main unit.
 Note 4. Nozzle set for greasing (recommended) (see P.34 for detail)
 Part number: KFU-M3861-00

Features

Basic model LBAS

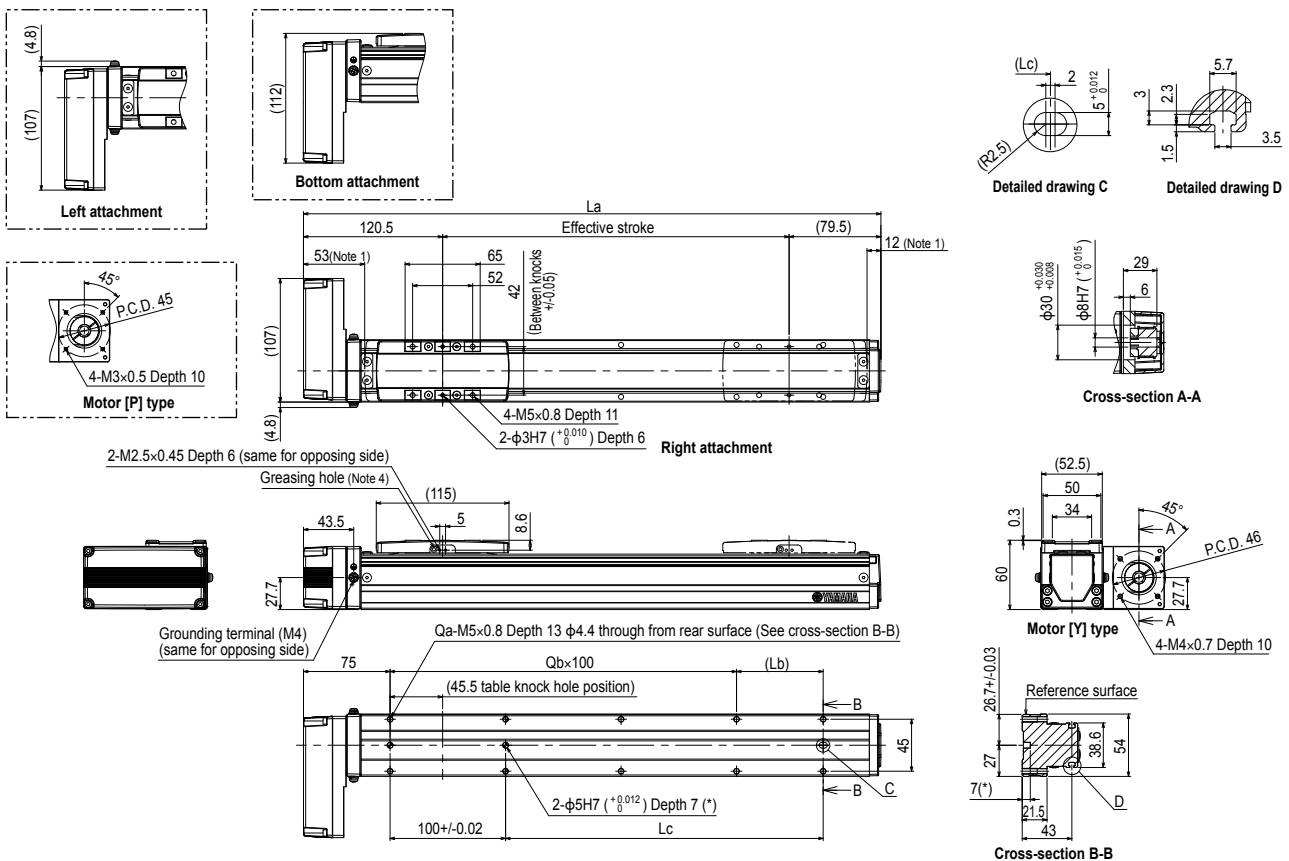
LBAS Acceleration/Deceleration Inertia Moment

Advanced model LGXS

LGXS Acceleration/Deceleration Inertia Moment

Option

LBAS05 Bending type (A)



Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
La	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
Lb	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
Lc	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
Qa	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
Qb	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
Weight (kg)	1.7	1.8	2	2.2	2.4	2.6	2.6	2.8	2.9	3	3.2	3.3	3.5	3.6	3.8	4.1
Maximum speed (mm/sec)	Lead 20	1333														
	Lead 10	666														
	Lead 5	333														
	Lead 2	133														
Speed setting	-											85%	70%	60%	50%	45%

- Note 1. Stop positions are determined by the mechanical stoppers at both ends.
- Note 2. Please perform installation and adjustment on the special parts for motor installation by the customer. For detail, refer to the manual.
- Note 3. For the installation through hole, the length under head << 30 mm or more>> is recommended for the hex socket head bolts <M4 x 0.7>. In the installation tap hole, the length under head << thickness of stand +10 mm or less>> is recommended for the hex socket head bolts <M5 x 0.8> used to install the main unit.
- Note 4. Nozzle set for greasing (recommended) (see P.34 for detail)
Part number: KFU-M3861-00

LBAS08

Basic model



Motor-less Single Axis Actuator

Ordering method

LBAS08

Model	Lead designation	Shape	Motor specification	Stroke
	20: 20 mm 10: 10 mm 5: 5 mm	S: Straight A: Bending	Y: Y specification (see below) P: P specification (see below) K: K specification (see below)	50 to 1100 (50 mm pitch)

[Caution]

This system is provided as mechanical actuator unit and not including any adaptors or electric components. Motor, driver and other components required for installation are 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. For special parts for motor installation, install and adjust on your side.

Specifications

Adaptable motor	200 W
Repeatability ^{Note 1}	+/-0.01 mm
Deceleration mechanism	Shifting position ball screw ϕ 16 (C7 class)
Stroke	50 mm to 1100 mm (50 mm pitch)
Maximum speed ^{Note 2} (or equivalent)	1200 mm/sec 600 mm/sec 300 mm/sec
Ball screw lead	20 mm 10 mm 5 mm
Maximum payload (or equivalent)	Horizontal: 40 kg 80 kg 100 kg Vertical: 8 kg 20 kg 30 kg
Rated thrust (or equivalent) ^{Note 3}	174 N 341 N 683 N
Maximum dimensions of cross section of main unit	W 82 mm x H 78 mm
Overall length	ST + 278 mm
Using ambient temperature and humidity	0 to 40 °C, 35 to 80 %RH (non-condensing)

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 speed. If the effective stroke exceeds 650 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.
 Note 3. The rated thrust and maximum transferable weight are values assuming the attached motor outputs the rated torque.
 Note. See P.13 for acceleration/deceleration and inertia moment.

Static loading moment

	(Unit: N·m)		
	MY	MP	MR
	221	309	343

Allowable overhang ^{Note}

LBAS08-20			
Horizontal installation (Unit: mm)			
	A	B	C
15kg	356	131	146
25kg	278	73	86
40kg	255	41	53

Wall installation (Unit: mm)			
	A	B	C
15kg	146	131	356
25kg	86	73	278
40kg	53	41	255

Vertical installation (Unit: mm)			
	A	C	
3kg	645	645	
6kg	333	333	
8kg	252	252	

LBAS08-10			
Horizontal installation (Unit: mm)			
	A	B	C
30kg	466	83	120
50kg	342	44	65
80kg	228	22	34

Wall installation (Unit: mm)			
	A	B	C
30kg	120	83	466
50kg	65	44	342
80kg	34	22	228

Vertical installation (Unit: mm)			
	A	C	
5kg	564	564	
10kg	284	284	
20kg	142	142	

LBAS08-5			
Horizontal installation (Unit: mm)			
	A	B	C
30kg	1612	95	153
50kg	1041	52	83
80kg	719	27	44
100kg	608	19	31

Wall installation (Unit: mm)			
	A	B	C
30kg	153	95	1612
50kg	83	52	1041
80kg	44	27	719
100kg	31	19	608

Vertical installation (Unit: mm)			
	A	C	
10kg	325	325	
20kg	163	163	
30kg	109	109	

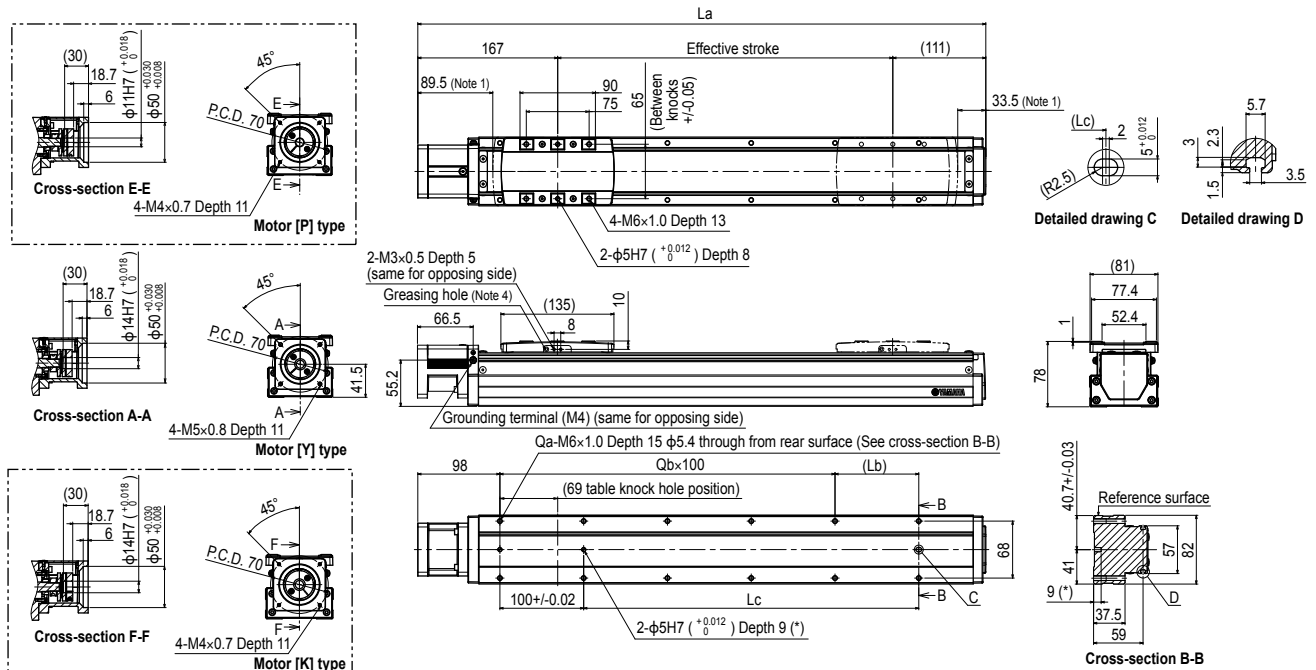
Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.
 Note. Service life is calculated for 600 mm stroke models.

Adaptable Servo Motor

Specification	Flange size <input type="checkbox"/> 60
	Wattage 200 W

Motor specification	Manufacturer	Model
Y	Yaskawa Electric Corp.	SGMJV-02 SGM7J-02
	Keyence Corp.	SV <input type="checkbox"/> 020 SV2 <input type="checkbox"/> 020
	Mitsubishi Electric Corp.	HF-KP23 HG-KR23 HK-KT23
	Sanyo Denki	R2 <input type="checkbox"/> A06020
	Tamagawa Seiki	TSM3202
	Delta Electronics	ECMA-C10602
	Schneider	1FL6032-2AF BCH2LD023
P	Omron Electronics	R88M-K20030 R88M-IM20030
	Panasonic Corp.	MSMD02 MSMF02
K	Kingservo	KSMA02LI KSMA02LG

LBAS08 Straight type (S)



Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100				
La	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378				
Lb	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100				
Lc	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100				
Qa	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26				
Qb	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11				
Weight (kg)	3.7	4.1	4.5	4.8	5.2	5.5	5.8	6.2	6.5	6.8	7.2	7.5	7.9	8.2	8.5	8.8	9.2	9.4	9.8	10.1	10.5	10.9				
Maximum speed (mm/sec)	Lead 20												1200													
	Lead 10												600													
	Lead 5												300													
	Speed setting												-													
												1020	900	780	660	600	540	480	420	360						
												510	450	390	330	300	270	240	210	180						
												255	225	195	165	150	135	120	105	90						
												85%	75%	65%	55%	50%	45%	40%	35%	30%						

Note 1. Stop positions are determined by the mechanical stoppers at both ends.
 Note 2. Please perform installation and adjustment on the special parts for motor installation by the customer. For detail, refer to the manual.
 Note 3. For the installation through hole, the length under head << 45 mm or more >> is recommended for the hex socket head bolts <M5 x 0.8>. In the installation tap hole, the length under head << thickness of stand +15 mm or less >> is recommended for the hex socket head bolts <M6 x 1.0> used to install the main unit.
 Note 4. Nozzle set for greasing (recommended) (see P.34 for detail)
 Part number: KFU-M3861-00

Features

Basic model LBAS

LBAS

Acceleration/Deceleration
Inertia Moment

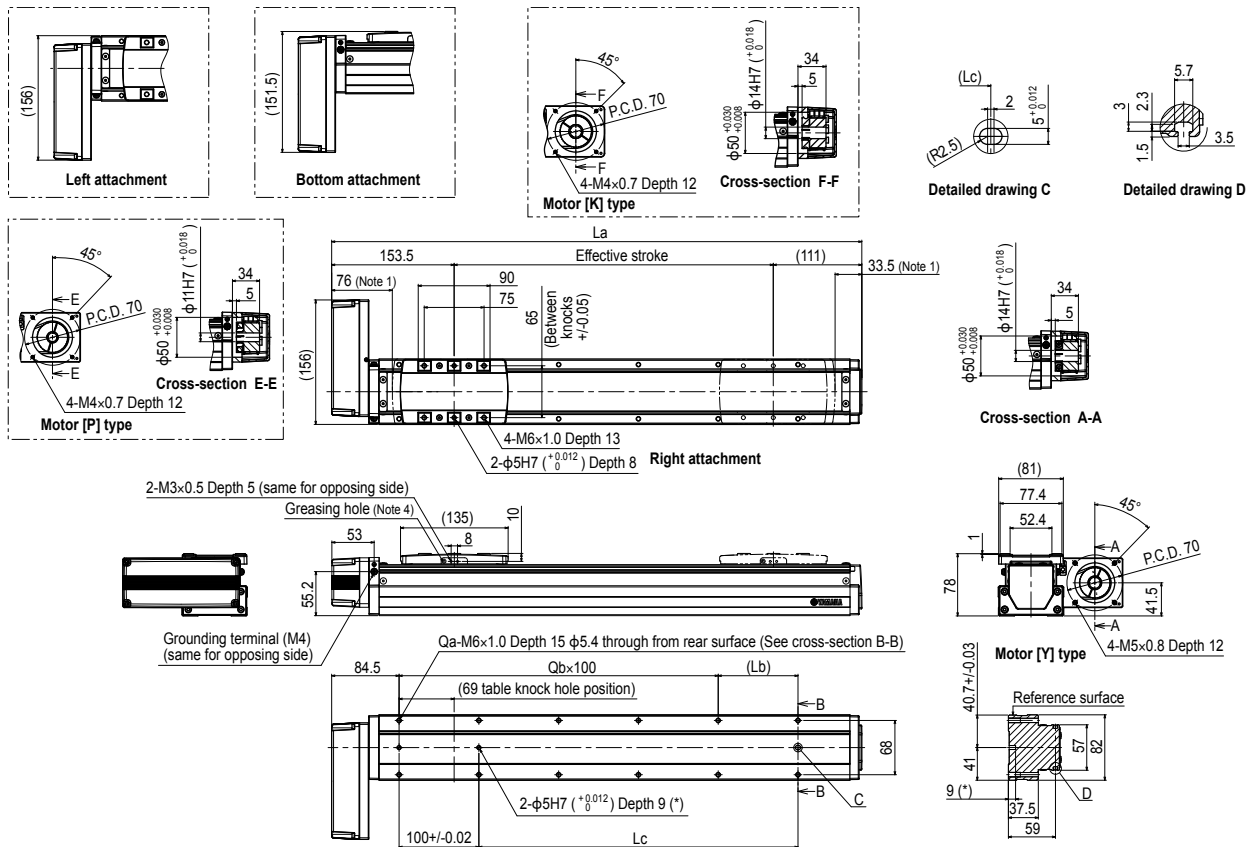
Advanced model LGXS

LGXS

Acceleration/Deceleration
Inertia Moment

Option

LBAS08 Bending type (A)



Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100				
La	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5				
Lb	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100				
Lc	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100				
Qa	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26				
Qb	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11				
Weight (kg)	4.1	4.5	4.9	5.2	5.6	5.9	6.2	6.6	6.9	7.2	7.6	7.9	8.3	8.6	8.9	9.2	9.6	9.8	10.2	10.5	10.9	11.3				
Maximum speed (mm/sec)	Lead 20												1200													
	Lead 10												600													
	Lead 5												300													
	Speed setting												-													
												85%	75%	65%	55%	50%	45%	40%	35%	30%						

- Note 1. Stop positions are determined by the mechanical stoppers at both ends.
- Note 2. Please perform installation and adjustment on the special parts for motor installation by the customer. For detail, refer to the manual.
- Note 3. For the installation through hole, the length under head << 45 mm or more >> is recommended for the hex socket head bolts <M5 × 0.8>. In the installation tap hole, the length under head << thickness of stand +15 mm or less >> is recommended for the hex socket head bolts <M6 × 1.0> used to install the main unit.
- Note 4. Nozzle set for greasing (recommended) (see P.34 for detail)
Part number: KFU-M3861-00

Acceleration/Deceleration and Inertia Moment (Basic model)

Acceleration/Deceleration

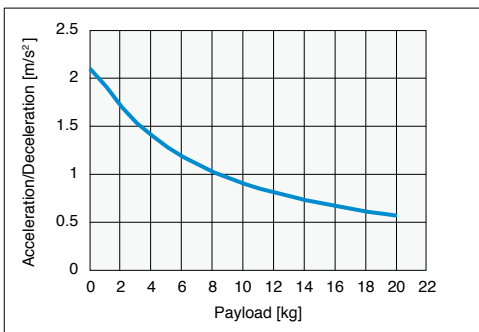
LBAS04

Model	LBAS04-6 Horizontal/ Wall hanging	LBAS04-6 Vertical	LBAS04-12 Horizontal/ Wall hanging	LBAS04-12 Vertical
Payload [kg]	Acceleration/ Deceleration [m/s ²]	Acceleration/ Deceleration [m/s ²]	Acceleration/ Deceleration [m/s ²]	Acceleration/ Deceleration [m/s ²]
0	2.1	2.1	4.2	3.6
1	1.91	2.1	3.84	2.4
2	1.7	1.64	2.99	1.8
3	1.53	1.34	2.45	
4	1.4	1.14	2.07	
5	1.28	0.99	1.8	
6	1.18		1.58	
7	1.1		1.42	
8	1.02		1.28	
9	0.96		1.17	
10	0.9		1.08	
11	0.85		1	
12	0.81		0.93	
13	0.77			
14	0.73			
15	0.7			
16	0.67			
17	0.64			
18	0.61			
19	0.59			
20	0.57			

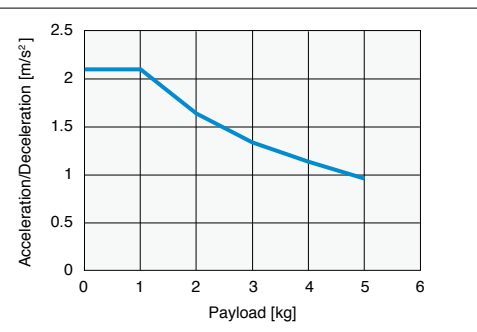
Payload – Acceleration/Deceleration Graph (Estimate)

LBAS04-6

Horizontal/
Wall hanging

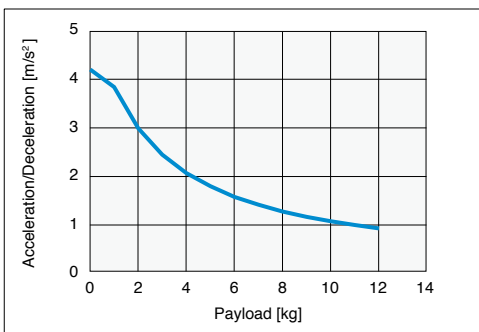


Vertical

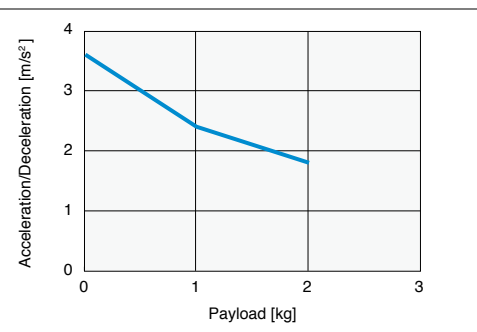


LBAS04-12

Horizontal/
Wall hanging



Vertical



Inertia Moment

LBAS04

[kg·m ² ·10 ⁻⁴]	Effective stroke [mm]															
Model	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
LBAS04-6	0.060	0.063	0.067	0.071	0.075	0.079	0.083	0.087	0.090	0.094	0.098	0.102	0.106	0.110	0.114	0.117
LBAS04-12	0.069	0.072	0.076	0.080	0.084	0.088	0.092	0.096	0.099	0.103	0.107	0.111	0.115	0.119	0.123	0.126

Features

Basic model LBAS

LBAS Acceleration/Deceleration Inertia Moment

Advanced model LGXS

LGXS Acceleration/Deceleration Inertia Moment

Option

Acceleration/Deceleration

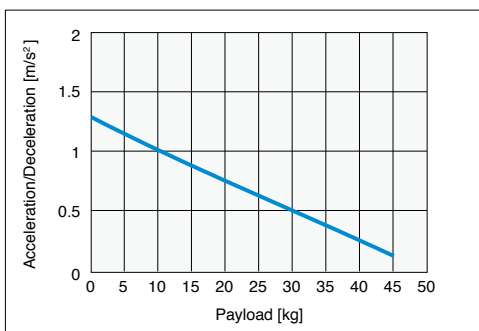
LBAS05

Model	LBAS05-2	LBAS05-2	LBAS05-5	LBAS05-5	LBAS05-10	LBAS05-10	LBAS05-20	LBAS05-20
	Horizontal/Wall hanging	Vertical	Horizontal/Wall hanging	Vertical	Horizontal/Wall hanging	Vertical	Horizontal/Wall hanging	Vertical
Payload [kg]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]
0	1.3	1	3.04	3.34	4.64	4.86	7.44	7.44
1	1.27	0.95	2.97	3.18	4.44	4.56	7.44	6.99
2	1.24	0.91	2.91	3.03	4.25	4.3	7.44	5.65
3	1.22	0.86	2.85	2.88	4.07	4.06	7.44	3.42
4	1.19	0.82	2.79	2.73	3.9	3.85	7.44	
5	1.17	0.77	2.73	2.58	3.73	3.66	7.44	
6	1.14	0.73	2.67	2.43	3.57	3.49	6.64	
7	1.11	0.68	2.61	2.28	3.41		6	
8	1.09	0.64	2.55	2.13	3.27		5.47	
9	1.06	0.59	2.49	1.98	3.12		5.02	
10	1.04	0.55	2.43	1.83	2.99		4.65	
11	1.01	0.5	2.37	1.68	2.86		4.32	
12	0.98	0.46	2.31	1.53	2.74		4.04	
13	0.96	0.41	2.24					2.62
14	0.93	0.37	2.18					2.51
15	0.91	0.32	2.12					2.41
16	0.88		2.06					2.31
17	0.85		2					2.22
18	0.83		1.94					2.14
19	0.8		1.88					2.06
20	0.78		1.82					1.99
21	0.75		1.76					1.93
22	0.72		1.7					1.87
23	0.7		1.64					1.82
24	0.67		1.58					1.77
25	0.65		1.52					
26	0.62		1.45					
27	0.59		1.39					
28	0.57		1.33					
29	0.54		1.27					
30	0.52		1.21					
31	0.49		1.15					
32	0.46		1.09					
33	0.44		1.03					
34	0.41		0.97					
35	0.39		0.91					
36	0.36		0.85					
37	0.33		0.79					
38	0.31		0.72					
39	0.28		0.66					
40	0.26		0.6					
41	0.23							
42	0.2							
43	0.18							
44	0.15							
45	0.13							

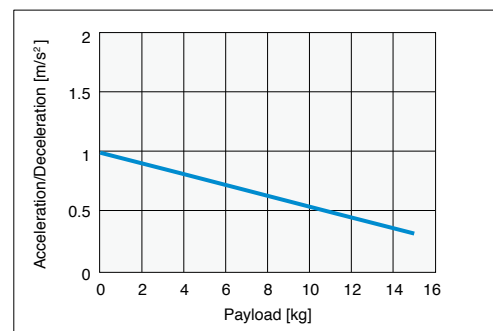
Payload – Acceleration/Deceleration Graph (Estimate)

LBAS05-2

Horizontal/Wall hanging

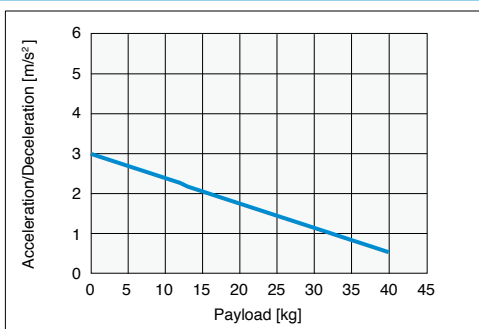


Vertical

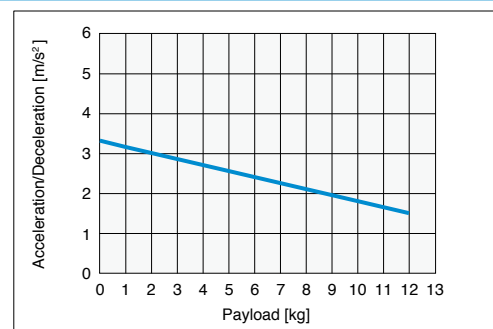


LBAS05-5

Horizontal/Wall hanging



Vertical

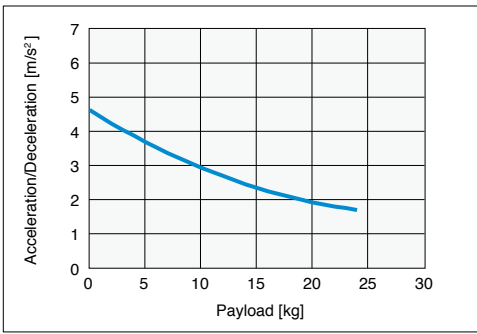


Acceleration/Deceleration and Inertia Moment (Basic model)

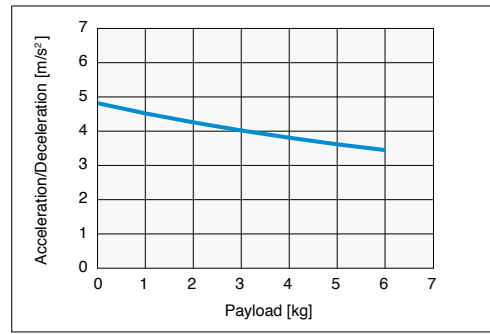
■ Payload – Acceleration/Deceleration Graph (Estimate)

LBAS05-10

Horizontal/
Wall hanging



Vertical

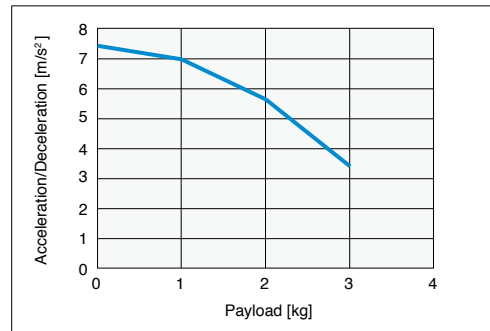


LBAS05-20

Horizontal/
Wall hanging



Vertical



■ Inertia Moment

LBAS05

[kg·m ² ·10 ⁻⁴]	Effective stroke [mm]															
Model	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
LBAS05-2	0.082	0.090	0.098	0.106	0.114	0.122	0.130	0.138	0.146	0.154	0.162	0.170	0.178	0.186	0.194	0.202
LBAS05-5	0.085	0.093	0.101	0.109	0.117	0.125	0.133	0.141	0.149	0.157	0.165	0.173	0.181	0.189	0.197	0.205
LBAS05-10	0.097	0.105	0.113	0.121	0.129	0.137	0.145	0.153	0.161	0.169	0.177	0.185	0.193	0.201	0.209	0.217
LBAS05-20	0.145	0.153	0.161	0.169	0.177	0.185	0.193	0.201	0.209	0.217	0.224	0.232	0.240	0.248	0.256	0.264

Features

Basic model LBAS

LBAS Acceleration/Deceleration Inertia Moment

Advanced model LGXS

LGXS Acceleration/Deceleration Inertia Moment

Option

Acceleration/Deceleration

LBAS08

Model	LBAS08 -5 Horizontal/Wall hanging	LBAS08 -5 Vertical	LBAS08 -10 Horizontal/Wall hanging	LBAS08 -10 Vertical	LBAS08 -20 Horizontal/Wall hanging	LBAS08 -20 Vertical
0	1.65	1.65	6.09	4.79	8.51	8.5
1	1.63	1.62	5.97	4.54	8.2	7.39
2	1.62	1.59	5.86	4.31	7.9	6.42
3	1.6	1.57	5.74	4.09	7.61	5.59
4	1.59	1.54	5.63	3.88	7.33	4.89
5	1.58	1.51	5.52	3.68	7.05	4.33
6	1.56	1.49	5.42	3.5	6.77	3.91
7	1.55	1.46	5.31	3.32	6.51	3.62
8	1.54	1.44	5.21	3.16	6.24	3.46
9	1.52	1.41	5.1	3.01	5.99	
10	1.51	1.38	5	2.87	5.74	
11	1.5	1.36	4.9	2.74	5.5	
12	1.49	1.33	4.8	2.62	5.26	
13	1.47	1.3	4.7	2.52	5.03	
14	1.46	1.28	4.61	2.42	4.8	
15	1.45	1.25	4.51	2.34	4.58	
16	1.43	1.23	4.42	2.27	4.37	
17	1.42	1.2	4.33	2.21	4.16	
18	1.41	1.17	4.24	2.16	3.96	
19	1.4	1.15	4.15	2.13	3.76	
20	1.38	1.12	4.06	2.1	3.57	
21	1.37	1.09	3.98		3.38	
22	1.36	1.07	3.89		3.21	
23	1.35	1.04	3.81		3.03	
24	1.34	1.02	3.73		2.87	
25	1.32	0.99	3.65		2.71	
26	1.31	0.96	3.57		2.55	
27	1.3	0.94	3.49		2.4	
28	1.29	0.91	3.42		2.26	
29	1.28	0.88	3.34		2.13	
30	1.26	0.86	3.27		1.99	
31	1.25		3.2		1.87	
32	1.24		3.13		1.75	
33	1.23		3.06		1.64	
34	1.22		2.99		1.53	
35	1.21		2.93		1.43	
36	1.19		2.86		1.34	
37	1.18		2.8		1.25	
38	1.17		2.74		1.16	
39	1.16		2.68		1.09	
40	1.15		2.62		1.02	
41	1.14		2.57			
42	1.13		2.51			
43	1.12		2.46			
44	1.11		2.41			
45	1.09		2.36			
46	1.08		2.31			
47	1.07		2.26			
48	1.06		2.21			
49	1.05		2.17			
50	1.04		2.12			
51	1.03		2.08			
52	1.02		2.04			
53	1.01		2			
54	1		1.96			
55	0.99		1.93			
56	0.98		1.89			
57	0.97		1.86			
58	0.96		1.83			
59	0.95		1.8			
60	0.94		1.77			
61	0.93		1.74			
62	0.92		1.72			
63	0.91		1.69			
64	0.9		1.67			
65	0.89		1.65			
66	0.88		1.63			
67	0.87		1.61			
68	0.86		1.59			
69	0.85		1.57			
70	0.84		1.56			
71	0.84		1.55			
72	0.83		1.54			
73	0.82		1.53			
74	0.81		1.52			
75	0.8		1.51			
76	0.79		1.51			
77	0.78		1.5			
78	0.77		1.5			
79	0.76		1.5			
80	0.76		1.5			
81	0.75					
82	0.74					
83	0.73					
84	0.72					
85	0.71					
86	0.71					
87	0.7					
88	0.69					
89	0.68					

Model	LBAS08 -5 Horizontal/Wall hanging	LBAS08 -5 Vertical	LBAS08 -10 Horizontal/Wall hanging	LBAS08 -10 Vertical	LBAS08 -20 Horizontal/Wall hanging	LBAS08 -20 Vertical
90	0.67					
91	0.67					
92	0.66					
93	0.65					
94	0.64					
95	0.63					
96	0.63					
97	0.62					
98	0.61					
99	0.6					
100	0.6					

Features

Basic model LBAS

LBAS Acceleration/Deceleration Inertia Moment

Advanced model LGXS

LGXS Acceleration/Deceleration Inertia Moment

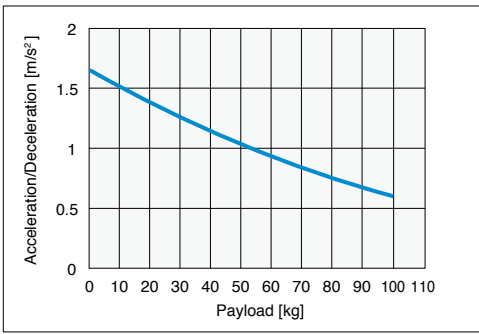
Option

Acceleration/Deceleration and Inertia Moment (Basic model)

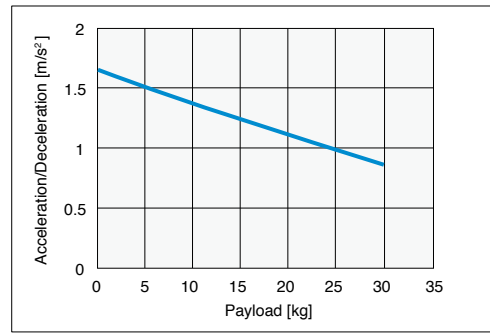
■ Payload – Acceleration/Deceleration Graph (Estimate)

LBAS08-5

Horizontal/
Wall hanging

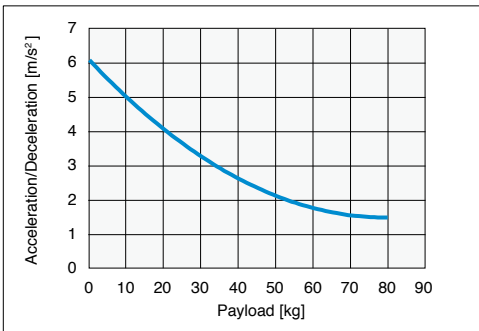


Vertical

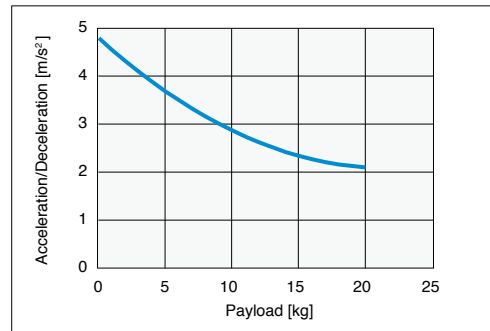


LBAS08-10

Horizontal/
Wall hanging

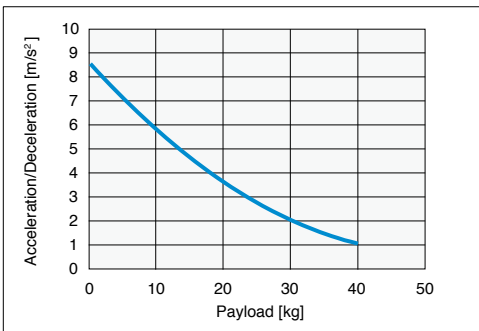


Vertical

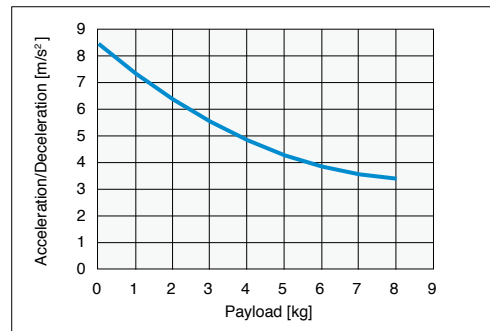


LBAS08-20

Horizontal/
Wall hanging



Vertical



■ Inertia Moment

LBAS08

[kg·m ² ·10 ⁻⁴]	Effective stroke [mm]																					
Model	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
LBAS08-5	0.160	0.168	0.176	0.184	0.192	0.200	0.208	0.216	0.224	0.232	0.240	0.248	0.256	0.263	0.271	0.279	0.287	0.295	0.303	0.311	0.319	0.327
LBAS08-10	0.190	0.198	0.206	0.214	0.222	0.230	0.238	0.246	0.254	0.261	0.269	0.277	0.285	0.293	0.301	0.309	0.317	0.325	0.333	0.341	0.349	0.357
LBAS08-20	0.309	0.317	0.325	0.333	0.341	0.349	0.357	0.365	0.373	0.381	0.389	0.397	0.405	0.413	0.421	0.429	0.437	0.445	0.453	0.461	0.469	0.477

Features

Basic model LBAS

LBAS Acceleration/Deceleration Inertia Moment

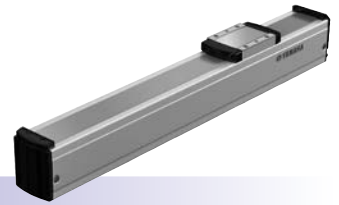
Advanced model LGXS

LGXS Acceleration/Deceleration Inertia Moment

Option

LGXS05 Advanced model

Motor-less Single Axis Actuator



Ordering method

LGXS05

Model	Lead designation	Side cover	Stroke
	20: 20 mm 10: 10 mm 5: 5 mm	No entry: Standard W: With T-groove (both sides) L: With T-groove (left side) R: With T-groove (right side)	50 to 800 (50 mm pitch)

[Caution]

This system is provided as mechanical actuator unit and not including any adapters or electric components. Motor, driver and other components required for installation are 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.

Specifications

Adaptable motor	50 W		
Repeatability ^{Note 1}	±0.005 mm		
Deceleration mechanism	Ground ball screw φ 12 (C5 class)		
Stroke	50 mm to 800 mm (50 mm pitch)		
Maximum speed ^{Note 2} (or equivalent)	1333 mm/sec	666 mm/sec	333 mm/sec
Ball screw lead	20 mm	10 mm	5 mm
Maximum payload ^{Note 3} (or equivalent)	Horizontal	5 kg	8 kg
	Vertical	2 kg	4 kg
Rated thrust ^{Note 3} (or equivalent)		41 N	69 N
			138 N
Maximum dimensions of cross section of main unit	W 48 mm × H 65 mm		
Overall length	ST + 131.5 mm		
Degree of cleanliness ^{Note 4}	ISO CLASS 3 (ISO14644-1) or equivalent		
Intake air ^{Note 5}	30 Nℓ/min to 100 Nℓ/min		
Using ambient temperature and humidity	0 to 40 °C, 35 to 80 %RH (non-condensing)		

- 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 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.
 Note 3. The rated thrust and maximum transferable weight are values assuming the attached motor outputs the rated torque.
 Note 4. 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.
 Note 5. The required suction amount will vary according to the operating conditions and operating environment.
 Note. See P.22 for acceleration/deceleration and inertia moment.

Allowable overhang ^{Note}

LGXS05-20				Horizontal installation (Unit: mm)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)			
	A	B	C		A	B	C		A	C		A	C		
2kg	900	270	351	2kg	324	234	812	1kg	454	454	1kg	454	454		
5kg	583	112	159	5kg	119	76	427	2kg	218	218	2kg	218	218		

LGXS05-10				Horizontal installation (Unit: mm)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)			
	A	B	C		A	B	C		A	C		A	C		
2kg	2506	382	625	2kg	585	346	2387	1kg	732	732	1kg	732	732		
5kg	1368	149	246	5kg	195	113	1165	2kg	351	351	2kg	351	351		
8kg	1038	90	150	8kg	95	54	747	4kg	160	160	4kg	160	160		

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

Static loading moment (Unit: N·m)			
MY	MP	MR	
24	27	23	

Adaptable Servo Motor

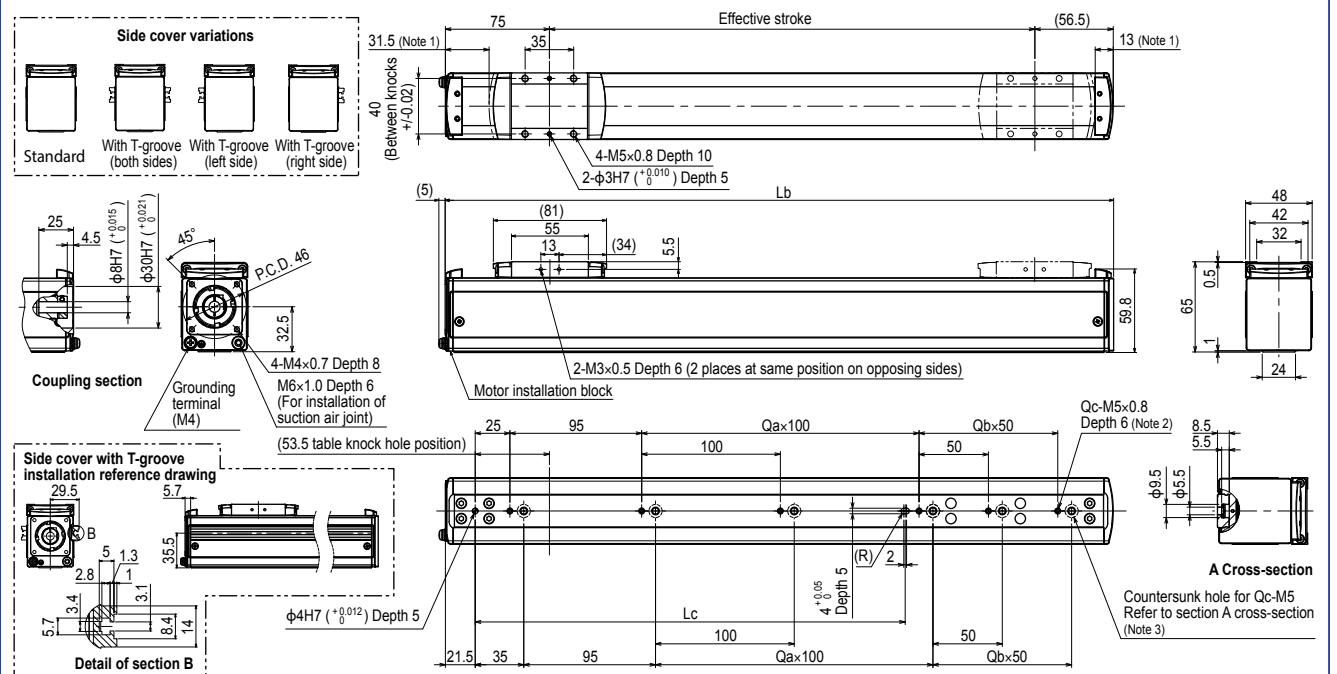
Specification	Flange size	Wattage
	□40	50 W

Manufacturer	Model
Yaskawa Electric Corp.	SGMJV-A5 SGM7J-A5
Keyence Corp.	SV-□005 SV2-□005
Mitsubishi Electric Corp.	HF-KP053 ^{Note} HG-KR053 ^{Note}

Note. To combine with the conversion adapter <GX-BEND-40>, the shim plate (t1) is necessary.

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

LGXS05

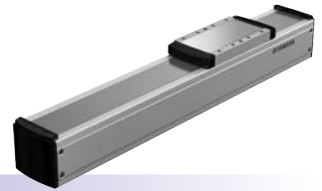


Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	
Lb	181.5	231.5	281.5	331.5	381.5	431.5	481.5	531.5	581.5	631.5	681.5	731.5	781.5	831.5	881.5	931.5	
Lc	110	110	110	110	310	310	310	310	310	310	610	610	610	610	610	610	
Qa	0	0	0	0	2	2	2	2	2	2	5	5	5	5	5	5	
Qb	0	1	2	3	0	1	2	3	4	5	0	1	2	3	4	5	
Qc	2	3	4	5	4	5	6	7	8	9	7	8	9	10	11	12	
Weight (kg)	1.2	1.4	1.5	1.7	1.9	2.0	2.2	2.3	2.5	2.6	2.8	2.9	3.1	3.2	3.4	3.5	
Maximum speed (mm/sec)	Lead 20	1333										1066					
	Lead 10	666										532					
	Lead 5	333										266					
	Speed setting	-										80%					

- Note 1. Stop positions are determined by the mechanical stoppers at both ends.
 Note 2. When using the tap holes to mount the body, remove the set screws first.
 Note 3. When using the countersunk holes (section A cross section) to mount the body, remove the cap from the inner side and then fix. The length under head of the hex socket head bolts (M5 × 0.8) used must be 15 mm or less.
 Note 4. Side cover with T-groove is used to install the sensor.

Features
 Basic model LBAS
 LBAS
 Acceleration/Deceleration Inertia Moment
 Advanced model LGXS
 LGXS
 Acceleration/Deceleration Inertia Moment
 Option

LGXS07 Advanced model



Motor-less Single Axis Actuator

Ordering method

LGXS07			
Model	Lead designation	Side cover	Stroke
	30: 30 mm 20: 20 mm 10: 10 mm 5: 5 mm	No entry: Standard W: With T-groove (both sides) L: With T-groove (left side) R: With T-groove (right side)	50 to 1100 (50 mm pitch)

[Caution]

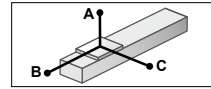
This system is provided as mechanical actuator unit and not including any adapters or electric components. Motor, driver and other components required for installation are user's responsibility. Refer to user's manual for installation details. Refer to your motor manual for tuning or adjustment. Vibration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

Specifications

Adaptable motor	100 W
Repeatability <small>Note 1</small>	+/-0.005 mm
Deceleration mechanism	Ground ball screw ϕ 15 (C5 class)
Stroke	50 mm to 1100 mm (50 mm pitch)
Maximum speed <small>Note 2</small> (or equivalent)	1800 mm/sec 1200 mm/sec 600 mm/sec 300 mm/sec
Ball screw lead	30 mm 20 mm 10 mm 5 mm
Maximum payload <small>Note 3</small> (or equivalent)	Horizontal 10 kg 25 kg 45 kg 85 kg Vertical 2 kg 4 kg 8 kg 16 kg
Rated thrust <small>Note 3</small> (or equivalent)	56 N 84 N 169 N 339 N
Maximum dimensions of cross section of main unit	W 70 mm \times H 76.5 mm
Overall length	ST + 202 mm
Degree of cleanliness <small>Note 4</small>	ISO CLASS 3 (ISO14644-1) or equivalent
Intake air <small>Note 5</small>	30 N ℓ /min to 115 N ℓ /min
Using ambient temperature and humidity	0 to 40 °C, 35 to 80 %RH (non-condensing)

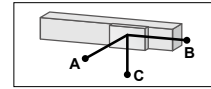
- Note 1. Positioning repeatability in one direction.
 Note 2. When a moving distance is short and depending on an operation condition, it may not reach the maximum speed.
 If the effective stroke exceeds 700 mm, the ball screw may resonate. (Critical speed)
 At this time, make the adjustment to decrease the speed while referring to the maximum speed shown in the table.
 Note 3. The rated thrust and maximum transferable weight are values assuming the attached motor outputs the rated torque.
 Note 4. 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.
 Note 5. The required suction amount will vary according to the operating conditions and operating environment.
 Note. See P24 for acceleration/deceleration and inertia moment.

Allowable overhang Note



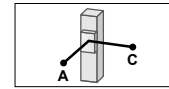
LGXS07-30
Horizontal installation (Unit: mm)

	A	B	C
2kg	3084	1512	1223
6kg	1191	502	418
10kg	957	318	282



Wall installation (Unit: mm)

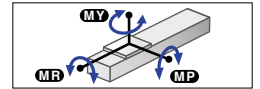
	A	B	C
2kg	1240	1445	2981
6kg	393	435	1063
10kg	245	251	794



Vertical installation (Unit: mm)

	A	C
1kg	2340	2340
2kg	1160	1160

Static loading moment



(Unit: N·m)

	MY	MP	MR
	138	121	121

Adaptable Servo Motor

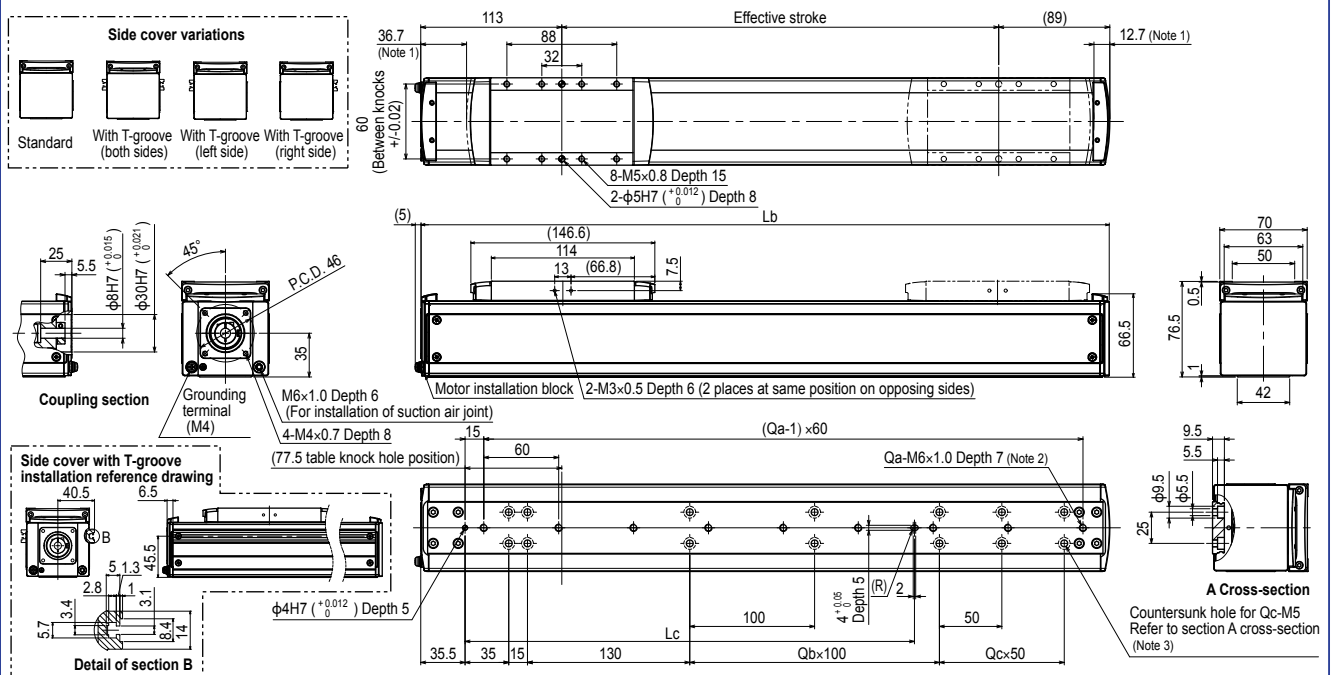
Specification	Flange size <input type="checkbox"/> 40
	Wattage 100 W

Manufacturer	Model
Yaskawa Electric Corp.	SGMJV-01 SGM7J-01
Keyence Corp.	SV-□010 SV2-□010
Mitsubishi Electric Corp.	HF-KP13 <small>Note</small> HG-KR13 <small>Note</small>

Note. To combine with the conversion adapter <GX-BEND-40>, the shim plate (t1) is necessary.

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

LGXS07



Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	
Lb	252	302	352	402	452	502	552	602	652	702	752	802	852	902	952	1002	1052	1102	1152	1202	1252	1302	
Lc	160	160	160	160	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	
Qa	4	5	5	6	7	8	9	10	10	11	12	13	14	15	15	16	17	18	19	20	20	21	
Qb	0	0	0	2	2	2	2	2	2	2	2	2	6	6	6	6	6	6	6	6	6	6	
Qc	0	1	2	3	0	1	2	3	4	5	6	7	0	1	2	3	4	5	6	7	8	9	
Qd	6	8	10	12	10	12	14	16	18	20	22	24	18	20	22	24	26	28	30	32	34	36	
Weight (kg)	3.2	3.4	3.7	4.0	4.3	4.5	4.8	5.1	5.3	5.6	5.9	6.2	6.4	6.7	7.0	7.2	7.5	7.8	8.1	8.3	8.6	8.9	
Lead 30	1800																						
Lead 20	1200																						
Lead 10	600																						
Lead 5	300																						
Speed setting	-																						
Maximum speed (mm/sec)	1530 1350 1170 990 900 810 720 630 1020 900 780 660 600 540 480 420 510 450 390 330 300 270 240 210 255 225 195 165 150 135 120 105 85% 75% 65% 55% 50% 45% 40% 35%																						

- Note 1. Stop positions are determined by the mechanical stoppers at both ends.
 Note 2. When using the tap holes to mount the body, remove the set screws first.
 Note 3. When using the countersunk holes (section A cross section) to mount the body, remove the cap from the inner side and then fix.
 Note 4. Side cover with T-groove is used to install the sensor.

Features

Basic model LBAS

LBAS

Acceleration/Deceleration Inertia Moment

Advanced model LGXS

LGXS

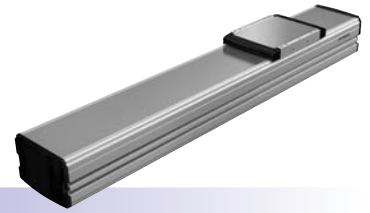
Acceleration/Deceleration Inertia Moment

Option

LGXS12

Advanced model

Motor-less Single Axis Actuator



Ordering method

LGXS12	Model	
	Lead designation	
	Stroke	
	30: 30 mm	100 to 1250
	20: 20 mm	(50 mm pitch)
10: 10 mm		
5: 5 mm		

[Caution]

This system is provided as mechanical actuator unit and not including any adapters or electric components. Motor, driver and other components required for installation are 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.

Specifications

Adaptable motor	400 W			
Repeatability ^{Note 1}	±0.005 mm			
Deceleration mechanism	Ground ball screw φ 15 (C5 class)			
Stroke	100 mm to 1250 mm (50 mm pitch)			
Maximum speed ^{Note 2} (or equivalent)	1800	1200	600	300
	mm/sec	mm/sec	mm/sec	mm/sec
	30	20	10	5
	mm	mm	mm	mm
Maximum payload ^{Note 3} (or equivalent)	Horizontal	35 kg	50 kg	95 kg
	Vertical	8 kg	15 kg	25 kg
Rated thrust ^{Note 3} (or equivalent)	225 N	339 N	678 N	1360 N
	Maximum dimensions of cross section of main unit	W 125 mm × H 101 mm		
	Overall length	ST + 211.5 mm		
	Degree of cleanliness ^{Note 4}	ISO CLASS 3 (ISO14644-1) or equivalent		
Intake air ^{Note 5}	30 Nl/min to 90 Nl/min			
Using ambient temperature and humidity	0 to 40 °C, 35 to 80 %RH (non-condensing)			

- 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 speed. If the effective stroke exceeds 700 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.
 Note 3. The rated thrust and maximum transferable weight are values assuming the attached motor outputs the rated torque.
 Note 4. 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.
 Note 5. The required suction amount will vary according to the operating conditions and operating environment.
 Note. See P.28 for acceleration/deceleration and inertia moment.

Allowable overhang^{Note}

LGXS12-30	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)		
	A	B	C	A	B	C	A	B	C
10kg	1800	1076	638	632	1011	1724	3k	2646	2646
20kg	1298	531	332	315	466	1169	6k	1291	1291
35kg	1343	335	228	198	270	1133	8k	952	952

LGXS12-20	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)		
	A	B	C	A	B	C	A	B	C
15kg	2236	906	614	592	841	2146	5k	2429	2429
30kg	1293	429	293	261	364	1171	10k	1210	1210
50kg	884	238	164	126	173	713	15k	805	805

LGXS12-10	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)		
	A	B	C	A	B	C	A	B	C
30kg	3119	609	457	415	544	2988	10k	1868	1868
50kg	2430	346	261	216	281	2217	15k	1225	1225
80kg	2430	199	151	104	134	1939	25k	711	711
95kg	2565	160	121	74	95	1838			

LGXS12-5	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)		
	A	B	C	A	B	C	A	B	C
30kg	11075	653	504	456	588	10687	15k	1332	1332
50kg	7428	373	288	239	308	6930	30k	634	634
80kg	5449	215	166	117	150	4706	45k	460	460
115kg	4354	136	105	55	71	3214			

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

MY	MP	MR
334	334	294

(Unit: N·m)

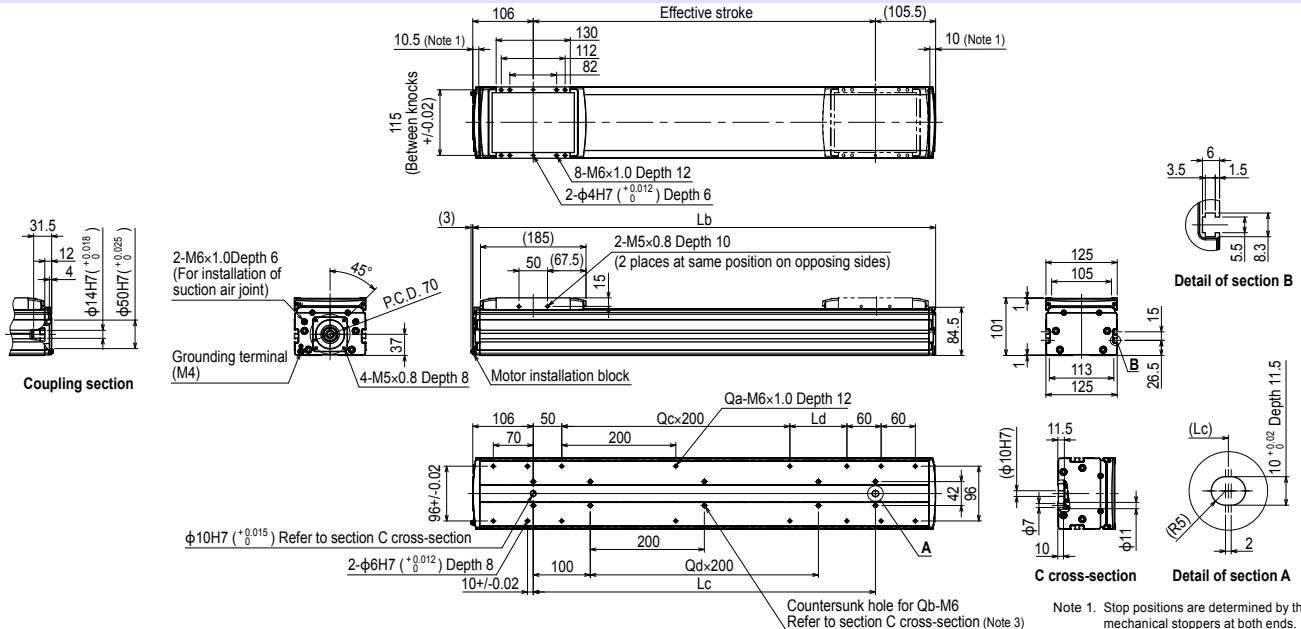
Adaptable Servo Motor

Specification	Flange size	□60
	Wattage	400 W
Manufacturer	Model	
Yaskawa Electric Corp.	SGMJV-04	
	SGM7J-04	
Keyence Corp.	SV-□040	
	HF-KP43	
Mitsubishi Electric Corp.	HG-KR43 ^{Note}	

Note. To combine with the conversion adapter <GX-BEND-60>, the shim plate (t1) is necessary.

Conversion adapter product model	Shim plate part number
GX-BEND-60	KEV-M2295-00

LGXS12



Note 1. Stop positions are determined by the mechanical stoppers at both ends.

Note 2. The length under the head of the hex socket head bolts <M6 × 1.0> used to mount the body with the mounting countersunk holes (section C cross-section) must be <<20 mm or more>>. The recommended length under the head of the hex socket head bolts <M6 × 1.0> used to mount the body with the mounting tap hole specifications is <<frame thickness + 10 mm or less>>.

Note 3. When using the mounting countersunk holes (section C cross-section) to mount the body, remove the seal, and then fix.

Effective stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
Lb	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	1011.5	1061.5	1111.5	1161.5	1211.5	1261.5	1311.5	1361.5	1411.5	1461.5
Lc	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
Ld	0	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
Qa	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	18	18	18	18	18	20	20	20
Qb	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	14	14	14	14	14	16	16	16
Qc	0	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
Qd	0	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
Weight (kg)	6.5	7.1	7.8	8.5	9.1	9.8	10.5	11.2	11.8	12.5	13.2	13.9	14.5	15.2	15.9	16.5	17.2	17.9	18.6	19.2	19.9	20.6	21.3	21.9
Lead 30	1800																							
	1200																							
Maximum speed (mm/sec)	600																							
	300																							
Speed setting	-																							
	85% 75% 65% 55% 50% 45% 40% 35% 30% 25%																							

Features

Basic model LBAS

LBAS

Acceleration/Deceleration Inertia Moment

Advanced model LGXS

LGXS

Acceleration/Deceleration Inertia Moment

Option

LGXS16 Advanced model



Motor-less Single Axis Actuator

Ordering method

LGXS16		
Model	Lead designation	Stroke
40: 40 mm	100 to 1450	100 to 1450
20: 20 mm	(50 mm pitch)	
10: 10 mm		

[Caution]

This system is provided as mechanical actuator unit and not including any adaptors or electric components. Motor, driver and other components required for installation are 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.

Specifications

Adaptable motor	750 W		
Repeatability <small>Note 1</small>	±0.005 mm		
Deceleration mechanism	Ground ball screw φ20 (C5 class)		
Stroke	100 mm to 1450 mm (50 mm pitch)		
Maximum speed <small>Note 2</small> (or equivalent)	2400 mm/sec	1200 mm/sec	600 mm/sec
Ball screw lead	40 mm	20 mm	10 mm
Maximum payload (or equivalent) <small>Note 3</small>	Horizontal	45 kg	95 kg
	Vertical	12 kg	28 kg
Rated thrust (or equivalent) <small>Note 3</small>	Horizontal	320 N	640 N
	Vertical	640 N	1280 N
Maximum dimensions of cross section of main unit	W 160 mm × H 130 mm		
Overall length	ST + 242.5 mm		
Degree of cleanliness <small>Note 4</small>	ISO CLASS 3 (ISO14644-1) or equivalent		
Intake air <small>Note 5</small>	30 Nℓ/min to 90 Nℓ/min		
Using ambient temperature and humidity	0 to 40 °C, 35 to 80 %RH (non-condensing)		

- 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 speed. If the effective stroke exceeds 800 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.
 Note 3. The rated thrust and maximum transferable weight are values assuming the attached motor outputs the rated torque.
 Note 4. 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.
 Note 5. The required suction amount will vary according to the operating conditions and operating environment.
 Note. See P.30 for acceleration/deceleration and inertia moment.

Allowable overhang Note

LGXS16-40	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)	
	A	B	C	A	B	C	A	C
15kg	2876	1866	1253	1273	1801	2798	3kg	6604
30kg	3071	1062	869	884	999	2925	6kg	3834
45kg	3920	810	731	728	747	3677	12kg	3466

LGXS16-20	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)	
	A	B	C	A	B	C	A	C
30kg	3873	1258	1109	1105	1195	3753	10kg	3411
50kg	2573	735	653	632	672	2427	20kg	1744
80kg	1801	441	395	361	378	1615	28kg	1566
95kg	1584	363	326	289	301	1378		

LGXS16-10	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)	
	A	B	C	A	B	C	A	C
50kg	6270	1030	1028	984	967	6106	15kg	3444
80kg	4459	625	626	575	563	4252	30kg	1689
100kg	3975	491	492	439	428	3723	55kg	891
130kg	3792	366	368	313	304	3429		

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
706	706	620

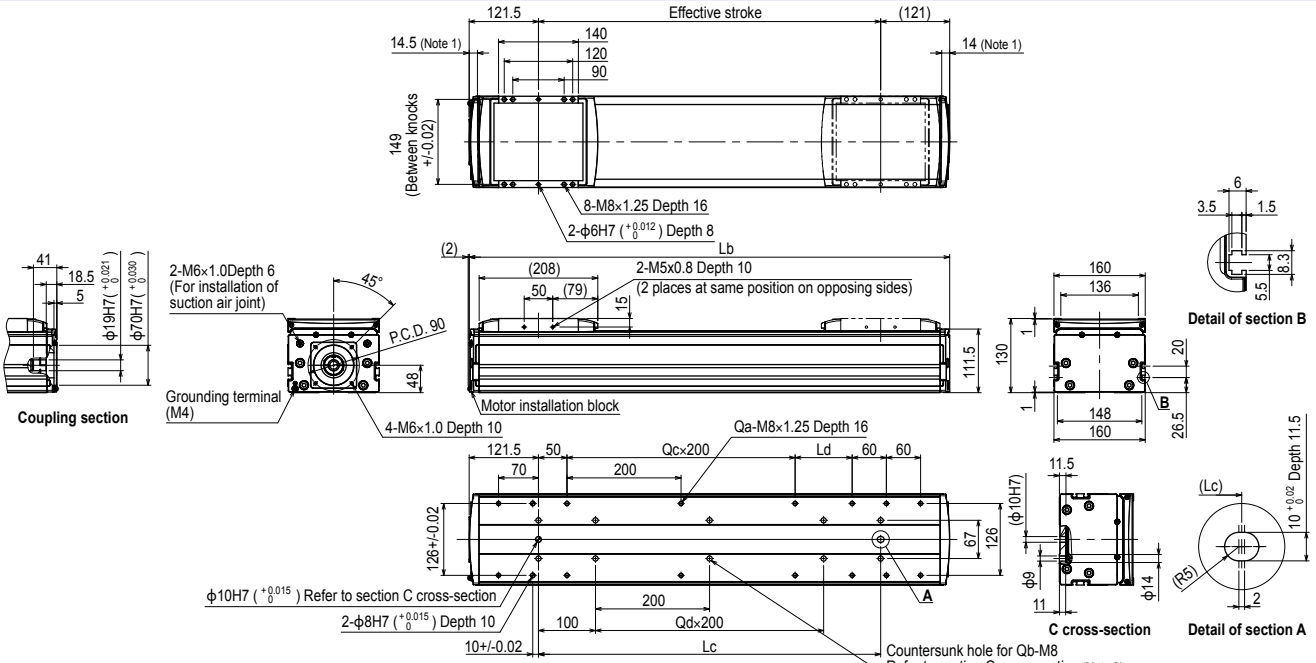
Adaptable Servo Motor

Specification	Flange size	80
	Wattage	750 W
Manufacturer	Model	
Yaskawa Electric Corp.	SGMJV-08	
	SGMJ7J-08	
Keyence Corp.	SV-□075	
	SV2-□075	
Mitsubishi Electric Corp.	HF-KP73	
	HG-KR73 <small>Note</small>	

Note. To combine with the conversion adapter <GX-BEND-80>, the shim plate (t1) is necessary.

Conversion adapter product model	Shim plate part number
GX-BEND-80	KEX-M2295-00

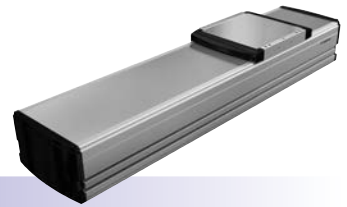
LGXS16



- Note 1. Stop positions are determined by the mechanical stoppers at both ends.
 Note 2. The length under head of the hex socket head bolts <M8 × 1.25> used to mount the body with the mounting countersunk holes (section C cross-section) must be <<25 mm or more>>. The recommended length under head of the hex socket head bolts <M8 × 1.25> used to mount the body with the mounting tap hole specifications is <<frame thickness + 15 mm or less>>.
 Note 3. When using the mounting countersunk holes (section C cross-section) to mount the body, remove the seal, and then fix.

Effective stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	
Lb	342.5	392.5	442.5	492.5	542.5	592.5	642.5	692.5	742.5	792.5	842.5	892.5	942.5	992.5	1042.5	1092.5	1142.5	1192.5	1242.5	1292.5	1342.5	1392.5	1442.5	1492.5	1542.5	1592.5	1642.5	1692.5	
Lc	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	
Ld	0	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	
Qa	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	18	18	18	18	18	18	20	20	20	22	22	22	
Qb	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	14	14	14	14	14	16	16	16	16	18	18	18	
Qc	0	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	4	4	4	4	4	5	5	5	5	6	6	6	
Qd	0	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	4	4	4	4	4	5	5	5	5	6	6	6	
Weight (kg)	11.7	12.7	13.7	14.7	15.7	16.6	17.6	18.6	19.6	20.6	21.5	22.5	23.5	24.5	25.5	26.5	27.4	28.4	29.4	30.4	31.4	32.4	33.3	34.3	35.3	36.3	37.3	38.2	
Maximum speed (mm/sec)	Lead 40	2400																2160	1920	1680	1440	1320	1200	1080	960	840	720	600	
	Lead 20	1200																1080	960	840	720	660	600	540	480	420	360	300	240
Speed setting	Lead 10	600																540	480	420	360	330	300	270	240	210	180	150	120
	Speed setting	-																90%	80%	70%	60%	55%	50%	45%	40%	35%	30%	25%	

LGXS20 Advanced model



Motor-less Single Axis Actuator

Ordering method

LGXS20		
Model	Lead designation	Stroke
40: 40 mm	20: 20 mm	100 to 1450 (50 mm pitch)
20: 20 mm	10: 10 mm	

[Caution]

This system is provided as mechanical actuator unit and not including any adapters or electric components. Motor, driver and other components required for installation are 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.

Specifications

Adaptable motor	750 W		
Repeatability ^{Note 1}	±0.005 mm		
Deceleration mechanism	Ground ball screw φ20 (C5 class)		
Stroke	100 mm to 1450 mm (50 mm pitch)		
Maximum speed ^{Note 2} (or equivalent)	2400 mm/sec	1200 mm/sec	600 mm/sec
Ball screw lead	40 mm	20 mm	10 mm
Maximum payload ^{Note 3} (or equivalent)	Horizontal	65 kg	130 kg
	Vertical	15 kg	35 kg
Rated thrust ^{Note 3} (or equivalent)		320 N	640 N
			1280 N
Maximum dimensions of cross section of main unit	W 200 mm × H 140 mm		
Overall length	ST + 288.5 mm		
Degree of cleanliness ^{Note 4}	ISO CLASS 3 (ISO14644-1) or equivalent		
Intake air ^{Note 5}	30 Nℓ/min to 90 Nℓ/min		
Using ambient temperature and humidity	0 to 40 °C, 35 to 80 %RH (non-condensing)		

- 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 speed.
 If the effective stroke exceeds 800 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.
 Note 3. The rated thrust and maximum transferable weight are values assuming the attached motor outputs the rated torque.
 Note 4. 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.
 Note 5. The required suction amount will vary according to the operating conditions and operating environment.
 Note. See P.32 for acceleration/deceleration and inertia moment.

Allowable overhang ^{Note}

LGXS20-40	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)		
	A	B	C	A	B	C	A	B	C
20kg	5460	2838	2124	2203	2768	5351	5kg	8187	8187
40kg	7494	1781	1626	1690	1711	7259	10kg	5885	5885
65kg	10253	1282	1270	1276	1212	9808	15kg	5971	5971

LGXS20-20	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)		
	A	B	C	A	B	C	A	B	C
50kg	5451	1497	1381	1394	1426	5279	20kg	3443	3443
80kg	4429	913	856	851	843	4165	30kg	2603	2603
100kg	4588	755	726	707	685	4249	35kg	3174	3174
130kg	4351	597	585	551	526	3945			

LGXS20-10	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)		
	A	B	C	A	B	C	A	C	
40kg	22572	2615	2722	2713	2545	22263	20kg	5173	5173
80kg	16750	1278	1336	1297	1208	16175	40kg	2561	2561
120kg	14083	833	871	821	763	13243	65kg	1604	1604
160kg	12387	610	639	582	540	11284			

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
1423	1423	1251

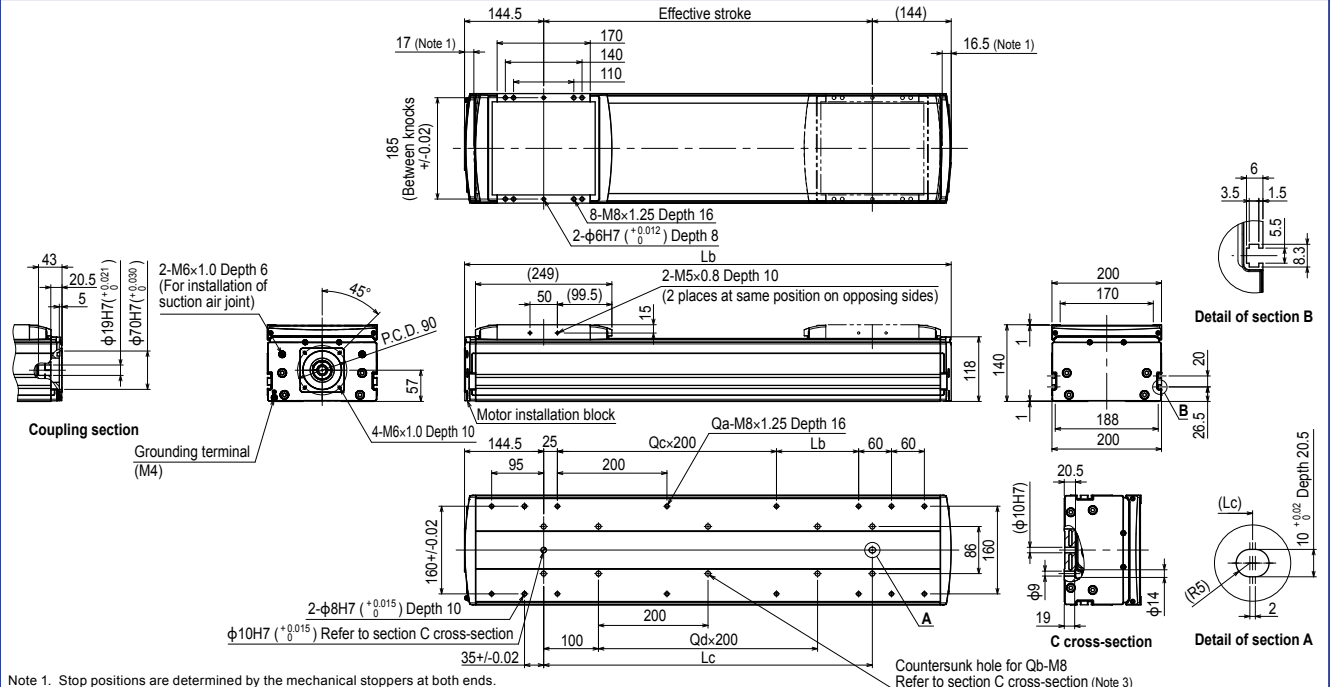
Adaptable Servo Motor

Specification	Flange size <input type="checkbox"/> 80	Wattage	750 W
Manufacturer	Model		
Yaskawa Electric Corp.	SGMJV-08		
	SGM7J-08		
Keyence Corp.	SV-□075		
	SV2-□075		
Mitsubishi Electric Corp.	HF-KP73		
	HG-KR73 ^{Note}		

Note. To combine with the conversion adapter <GX-BEND-80>, the shim plate (t1) is necessary.

Conversion adapter product model	Shim plate part number
GX-BEND-80	KEX-M2295-00

LGXS20



- Note 1. Stop positions are determined by the mechanical stoppers at both ends.
 Note 2. The length under head of the hex socket head bolts <M8 × 1.25> used to mount the body with the mounting countersunk holes (section C cross-section) must be <<25 mm or more>>. The recommended length under head of the hex socket head bolts <M8 × 1.25> used to mount the body with the mounting tap hole specifications is <<frame thickness + 15 mm or less>>.
 Note 3. When using the mounting countersunk holes (section C cross-section) to mount the body, remove the seal, and then fix.

Effective stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
Lb	388.5	438.5	488.5	538.5	588.5	638.5	688.5	738.5	788.5	838.5	888.5	938.5	988.5	1038.5	1088.5	1138.5	1188.5	1238.5	1288.5	1338.5	1388.5	1438.5	1488.5	1538.5	1588.5	1638.5	1688.5	1738.5
Lc	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
Ld	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
Qa	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22
Qb	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	14	14	14	14	16	16	16	16	16	18	18	18
Qc	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
Qd	0	0	0	0	0	1	1	1	1	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
Weight (kg)	17.2	18.5	19.8	21.1	22.4	23.7	25.0	26.3	27.6	28.8	30.1	31.4	32.7	34.0	35.3	36.6	37.9	39.2	40.4	41.7	43.0	44.3	45.6	46.9	48.2	49.5	50.8	52.0
Maximum speed (mm/sec)	Lead 40	2400																										
	Lead 20	1200																										
	Lead 10	600																										
Speed setting		-																										
			90%																									
		80%																										
		70%																										
		60%																										
		55%																										
		50%																										
		45%																										
		40%																										
		35%																										
		30%																										
		25%																										

Features

Basic model LBAS

LBAS Acceleration/Deceleration Inertia Moment

Advanced model LGXS

LGXS Acceleration/Deceleration Inertia Moment

Option

Acceleration/Deceleration

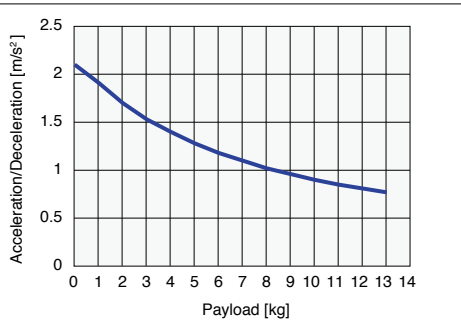
LGXS05

Model	LGXS05-5 Horizontal/ Wall hanging	LGXS05-5 Vertical	LGXS05-10 Horizontal/ Wall hanging	LGXS05-10 Vertical	LGXS05-20 Horizontal/ Wall hanging	LGXS05-20 Vertical
Payload [kg]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]
0	2.1	2.1	4.2	3.6	5.3	5.3
1	1.91	2.1	3.84	2.4	5.3	5.3
2	1.7	1.64	2.99	1.8	3.98	3.98
3	1.53	1.34	2.45	1.44	3.19	
4	1.4	1.14	2.07	1.2	2.66	
5	1.28	0.99	1.8		2.28	
6	1.18	0.87	1.58			
7	1.1	0.78	1.42			
8	1.02	0.7	1.28			
9	0.96					
10	0.9					
11	0.85					
12	0.81					
13	0.77					

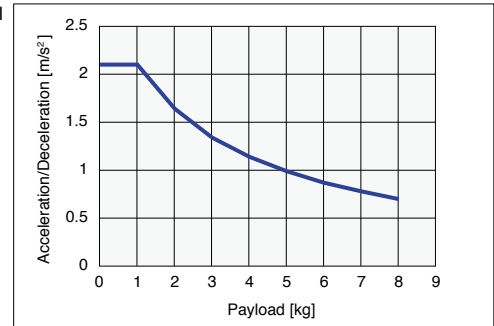
Payload – Acceleration/Deceleration Graph (Estimate)

LGXS05-5

Horizontal/
Wall hanging

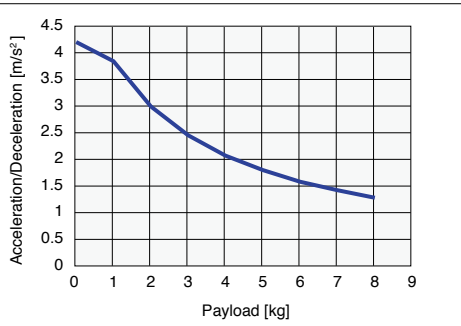


Vertical

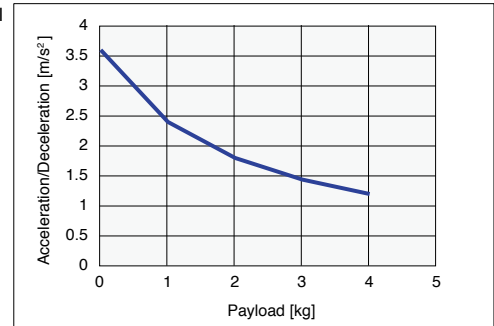


LGXS05-10

Horizontal/
Wall hanging

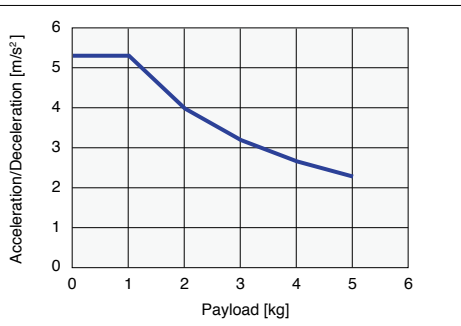


Vertical

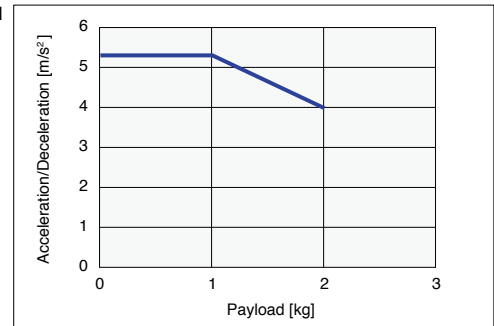


LGXS05-20

Horizontal/
Wall hanging



Vertical



Inertia Moment

LGXS05

[kg·m ² ·10 ⁻⁴]	Effective stroke [mm]															
Model	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
LGXS05-5	0.139	0.147	0.155	0.163	0.171	0.179	0.187	0.195	0.203	0.211	0.219	0.227	0.235	0.243	0.251	0.259
LGXS05-10	0.146	0.154	0.162	0.170	0.178	0.186	0.194	0.202	0.210	0.218	0.226	0.234	0.242	0.250	0.258	0.266
LGXS05-20	0.177	0.185	0.193	0.201	0.209	0.217	0.225	0.233	0.241	0.249	0.257	0.265	0.273	0.281	0.289	0.297

Acceleration/Deceleration

LGXS05L

Model	LGXS05L -5	LGXS05L -5	LGXS05L -10	LGXS05L -10	LGXS05L -20	LGXS05L -20
	Horizontal/Wall hanging	Vertical	Horizontal/Wall hanging	Vertical	Horizontal/Wall hanging	Vertical
Payload [kg]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]
0	3.04	3.34	4.26	4.86	5.07	5.07
1	2.97	3.18	4.08	4.56	4.86	4.86
2	2.91	3.03	3.9	4.3	4.66	4.66
3	2.85	2.88	3.74	4.06	4.46	4.46
4	2.79	2.73	3.58	3.85	4.25	
5	2.73	2.58	3.42	3.66	4.05	
6	2.67	2.43	3.28	3.49	3.85	
7	2.61	2.28	3.13		3.65	
8	2.55	2.13	3		3.44	
9	2.49	1.98	2.87		3.24	
10	2.43	1.83	2.74		3.04	
11	2.37	1.68	2.62		2.83	
12	2.31	1.53	2.51		2.63	
13	2.24		2.41			
14	2.18		2.3			
15	2.12		2.21			
16	2.06		2.12			
17	2		2.04			

Model	LGXS05L -5	LGXS05L -5	LGXS05L -10	LGXS05L -10	LGXS05L -20	LGXS05L -20
	Horizontal/Wall hanging	Vertical	Horizontal/Wall hanging	Vertical	Horizontal/Wall hanging	Vertical
Payload [kg]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]
18	1.94		1.96			
19	1.88		1.89			
20	1.82		1.83			
21	1.77		1.77			
22	1.7		1.72			
23	1.64		1.67			
24	1.58		1.63			
25	1.52					
26	1.45					
27	1.39					
28	1.33					
29	1.27					
30	1.21					
31	1.15					
32	1.09					

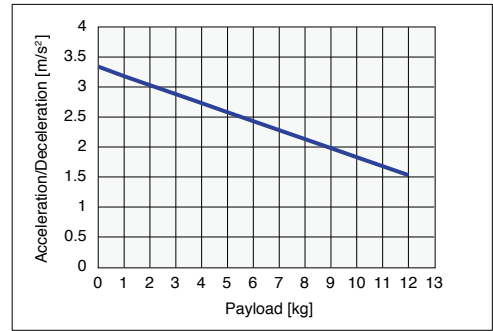
Payload – Acceleration/Deceleration Graph (Estimate)

LGXS05L-5

Horizontal/Wall hanging

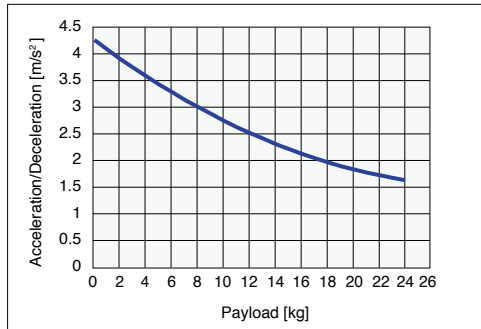


Vertical

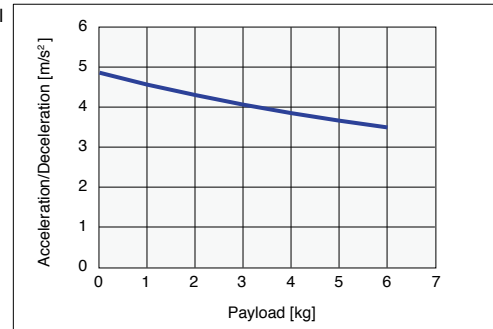


LGXS05L-10

Horizontal/Wall hanging

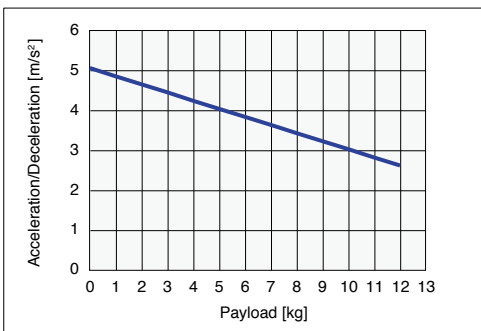


Vertical

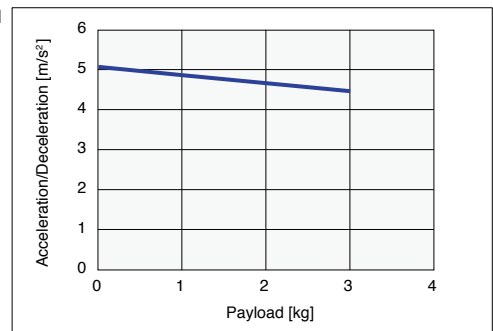


LGXS05L-20

Horizontal/Wall hanging



Vertical



Inertia Moment

LGXS05L

Model	Effective stroke [mm]															
	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
LGXS05L-5	0.144	0.152	0.160	0.168	0.176	0.184	0.192	0.200	0.208	0.216	0.224	0.232	0.240	0.248	0.256	0.264
LGXS05L-10	0.153	0.161	0.169	0.177	0.185	0.193	0.201	0.209	0.217	0.225	0.233	0.241	0.249	0.257	0.265	0.273
LGXS05L-20	0.192	0.200	0.208	0.216	0.224	0.232	0.240	0.248	0.256	0.264	0.271	0.279	0.287	0.295	0.303	0.311

Features
 Basic model
 LBAS
 Acceleration/Deceleration
 Inertia Moment
 Advanced model
 LGXS
 Acceleration/Deceleration
 Inertia Moment
 Option

Acceleration/Deceleration and Inertia Moment (Advanced model)

Acceleration/Deceleration

LGXS07

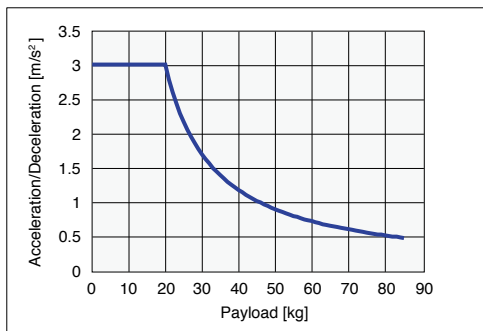
Model	LGXS07 -5	LGXS07 -5	LGXS07 -10	LGXS07 -10	LGXS07 -20	LGXS07 -20	LGXS07 -30	LGXS07 -30
	Horizontal/Wall hanging	Vertical	Horizontal/Wall hanging	Vertical	Horizontal/Wall hanging	Vertical	Horizontal/Wall hanging	Vertical
0	3.04	2.53	6.08	5.57	7.09	6.08	6.99	6.99
1	3.04	2.47	5.68	5.29	6.74	5.57	6.64	6.64
2	3.04	2.42	5.33	5.02	6.4	5.15	6.31	6.31
3	3.04	2.37	5.02	4.75	6.07	4.78	5.98	
4	3.04	2.32	4.75	4.5	5.75	4.47	5.67	
5	3.04	2.27	4.5	4.24	5.44		5.36	
6	3.04	2.22	4.28	3.99	5.14		5.06	
7	3.04	2.17	4.08	3.75	4.85		4.78	
8	3.04	2.12	3.89	3.52	4.57		4.5	
9	3.04	2.07	3.73		4.3		4.24	
10	3.04	2.02	3.57		4.04		3.98	
11	3.04	1.97	3.43		3.79			
12	3.04	1.92	3.3		3.55			
13	3.04	1.87	3.18		3.32			
14	3.04	1.82	3.07		3.09			
15	3.04	1.77	2.96		2.88			
16	3.04	1.72	2.86		2.68			
17	3.04		2.77		2.49			
18	3.04		2.69		2.31			
19	3.04		2.6		2.14			
20	3.04		2.53		1.98			
21	2.82		2.46		1.83			
22	2.64		2.39		1.69			
23	2.48		2.32		1.56			
24	2.33		2.26		1.44			
25	2.21		2.21		1.32			
26	2.09		2.15					
27	1.99		2.1					
28	1.9		2.05					
29	1.81		2					
30	1.73		1.96					
31	1.66		1.91					
32	1.6		1.87					
33	1.53		1.83					
34	1.48		1.79					
35	1.43		1.76					
36	1.38		1.72					
37	1.33		1.69					
38	1.29		1.66					
39	1.25		1.63					
40	1.21		1.6					
41	1.18		1.57					
42	1.14		1.54					
43	1.11		1.51					
44	1.08		1.49					
45	1.05		1.46					

Model	LGXS07 -5	LGXS07 -5	LGXS07 -10	LGXS07 -10	LGXS07 -20	LGXS07 -20	LGXS07 -30	LGXS07 -30
	Horizontal/Wall hanging	Vertical	Horizontal/Wall hanging	Vertical	Horizontal/Wall hanging	Vertical	Horizontal/Wall hanging	Vertical
46								1.03
47								1
48								0.98
49								0.95
50								0.93
51								0.91
52								0.89
53								0.87
54								0.85
55								0.83
56								0.82
57								0.8
58								0.78
59								0.77
60								0.76
61								0.74
62								0.73
63								0.71
64								0.7
65								0.69
66								0.68
67								0.67
68								0.66
69								0.65
70								0.64
71								0.63
72								0.62
73								0.61
74								0.6
75								0.59
76								0.58
77								0.57
78								0.56
79								0.56
80								0.55
81								0.54
82								0.53
83								0.53
84								0.52
85								0.51

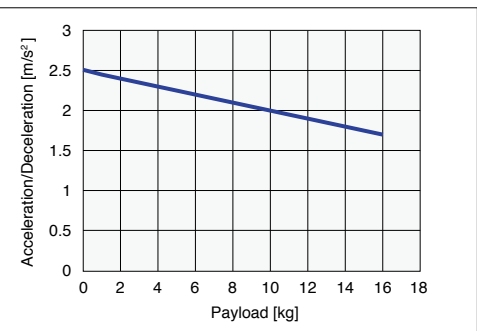
Payload – Acceleration/Deceleration Graph (Estimate)

LGXS07-5

Horizontal/Wall hanging

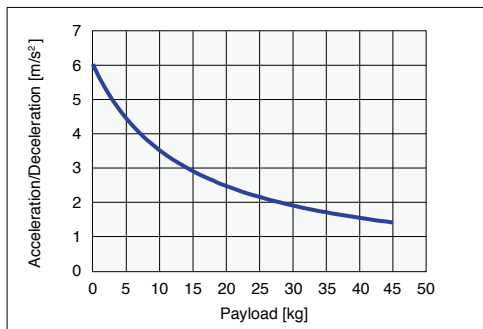


Vertical

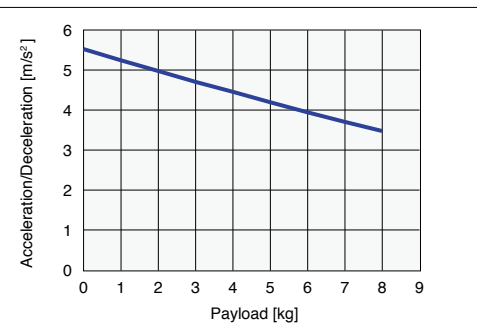


LGXS07-10

Horizontal/Wall hanging



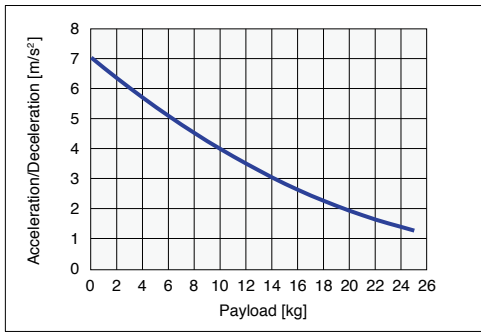
Vertical



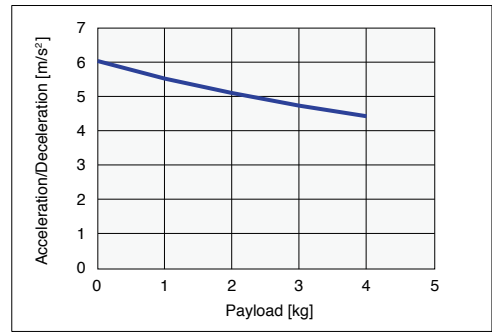
■ Payload – Acceleration/Deceleration Graph (Estimate)

LGXS07-20

Horizontal/
Wall hanging

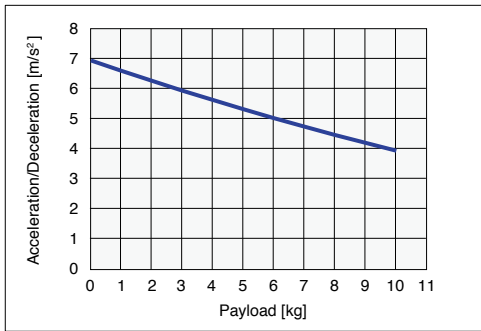


Vertical

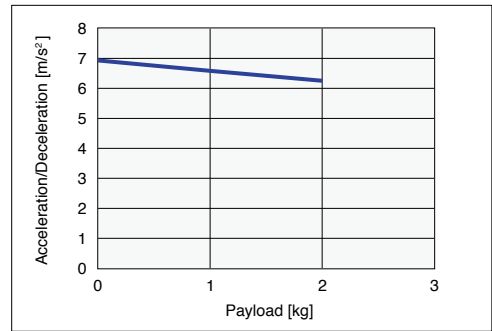


LGXS07-30

Horizontal/
Wall hanging



Vertical



■ Inertia Moment

LGXS07

[kg·m ² ×10 ⁻⁴]	Effective stroke [mm]																					
	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
LGXS07-5	0.623	0.643	0.662	0.682	0.701	0.721	0.740	0.760	0.779	0.799	0.818	0.838	0.857	0.877	0.896	0.916	0.935	0.955	0.974	0.994	1.013	1.033
LGXS07-10	0.644	0.663	0.683	0.702	0.722	0.741	0.761	0.780	0.800	0.819	0.839	0.858	0.878	0.897	0.917	0.936	0.956	0.975	0.995	1.014	1.034	1.053
LGXS07-20	0.728	0.747	0.767	0.787	0.806	0.826	0.845	0.865	0.884	0.904	0.923	0.943	0.962	0.982	1.001	1.021	1.040	1.060	1.079	1.099	1.118	1.138
LGXS07-30	0.885	0.905	0.924	0.944	0.963	0.983	1.002	1.022	1.041	1.061	1.080	1.100	1.119	1.139	1.158	1.178	1.197	1.217	1.236	1.256	1.275	1.295

Features

Basic model
LBAS

LBAS
Acceleration/Deceleration
Inertia Moment

Advanced model
LGXS

LGXS
Acceleration/Deceleration
Inertia Moment

Option

Acceleration/Deceleration and Inertia Moment (Advanced model)

Acceleration/Deceleration

LGXS10

Model	LGXS10 -5 Horizontal/ Wall hanging	LGXS10 -5 Vertical	LGXS10 -10 Horizontal/ Wall hanging	LGXS10 -10 Vertical	LGXS10 -20 Horizontal/ Wall hanging	LGXS10 -20 Vertical	LGXS10 -30 Horizontal/ Wall hanging	LGXS10 -30 Vertical
0	2.27	1.9	6.89	3.29	6.59	8.11	9.75	9.75
1	2.25	1.87	6.78	3.27	6.54	7.86	9.75	9.75
2	2.23	1.85	6.67	3.24	6.49	7.6	9.75	9.75
3	2.21	1.82	6.56	3.22	6.44	7.35	9.75	9.75
4	2.19	1.8	6.46	3.2	6.39	7.09	9.75	9.75
5	2.17	1.77	6.35	3.17	6.34	6.84	9.75	
6	2.15	1.75	6.25	3.15	6.29	6.59	9.75	
7	2.13	1.72	6.14	3.13	6.24	6.33	9.75	
8	2.11	1.7	6.04	3.1	6.18	6.08	9.75	
9	2.09	1.67	5.94	3.08	6.13		9.01	
10	2.07	1.65	5.84	3.05	6.08		8.38	
11	2.05	1.62	5.74	3.03	6.03		7.83	
12	2.03	1.6	5.64	3	5.98		7.34	
13	2.01	1.57	5.54	2.97	5.93		6.91	
14	1.99	1.55	5.44	2.95	5.88		6.53	
15	1.97	1.52	5.34	2.92	5.83		6.19	
16	1.95	1.5	5.25	2.89	5.78		5.89	
17	1.93	1.47	5.16	2.87	5.73		5.61	
18	1.91	1.45	5.06	2.84	5.68		5.36	
19	1.9	1.42	4.97	2.81	5.63		5.13	
20	1.88	1.39	4.88	2.78	5.58		4.91	
21	1.86	1.37	4.79		5.53		4.72	
22	1.84	1.34	4.7		5.48		4.54	
23	1.82	1.32	4.61		5.42		4.37	
24	1.8	1.29	4.52		5.37		4.22	
25	1.79	1.27	4.44		5.32		4.07	
26	1.77	1.24	4.35		5.27			
27	1.75	1.22	4.27		5.22			
28	1.74	1.19	4.18		5.17			
29	1.72	1.17	4.1		5.12			
30	1.7	1.14	4.02		5.07			
31	1.68		3.94		5.02			
32	1.67		3.86		4.97			
33	1.65		3.78		4.92			
34	1.63		3.7		4.87			
35	1.62		3.62		4.82			
36	1.6		3.55		4.77			
37	1.59		3.47		4.71			
38	1.57		3.4		4.66			
39	1.55		3.32		4.61			
40	1.54		3.25		4.56			
41	1.52		3.18					
42	1.51		3.11					
43	1.49		3.04					
44	1.48		2.97					
45	1.46		2.91					
46	1.45		2.84					
47	1.43		2.77					
48	1.42		2.71					
49	1.41		2.65					
50	1.39		2.58					
51	1.38		2.52					
52	1.36		2.46					
53	1.35		2.4					
54	1.34		2.34					
55	1.32		2.29					
56	1.31		2.23					
57	1.3		2.17					
58	1.28		2.12					
59	1.27		2.06					
60	1.26		2.01					
61	1.25		1.96					
62	1.23		1.91					
63	1.22		1.86					
64	1.21		1.81					
65	1.2		1.76					
66	1.18		1.72					
67	1.17		1.67					
68	1.16		1.62					
69	1.15		1.58					
70	1.14		1.54					
71	1.13		1.49					
72	1.12		1.45					
73	1.11		1.41					
74	1.09		1.37					
75	1.08		1.33					
76	1.07		1.3					
77	1.06		1.26					
78	1.05		1.23					
79	1.04		1.19					
80	1.03		1.16					
81	1.02							
82	1.01							
83	1							
84	0.99							
85	0.99							
86	0.98							
87	0.97							
88	0.96							
89	0.95							

Model	LGXS10 -5 Horizontal/ Wall hanging	LGXS10 -5 Vertical	LGXS10 -10 Horizontal/ Wall hanging	LGXS10 -10 Vertical	LGXS10 -20 Horizontal/ Wall hanging	LGXS10 -20 Vertical	LGXS10 -30 Horizontal/ Wall hanging	LGXS10 -30 Vertical
90	0.94							
91	0.93							
92	0.92							
93	0.92							
94	0.91							
95	0.9							
96	0.89							
97	0.89							
98	0.88							
99	0.87							
100	0.86							

Features

Basic model LBAS

LBAS Acceleration/Deceleration Inertia Moment

Advanced model LGXS

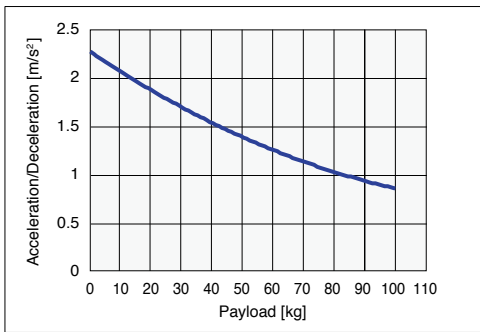
LGXS Acceleration/Deceleration Inertia Moment

Option

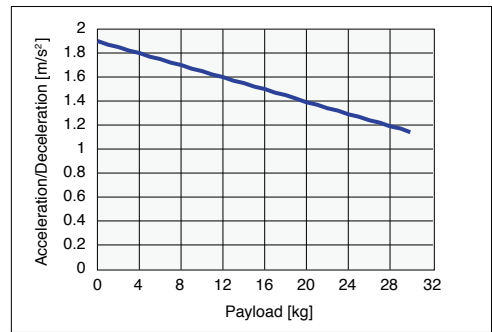
■ Payload – Acceleration/Deceleration Graph (Estimate)

LGXS10-5

Horizontal/
Wall hanging

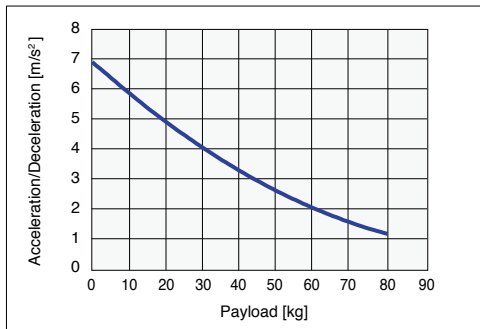


Vertical



LGXS10-10

Horizontal/
Wall hanging

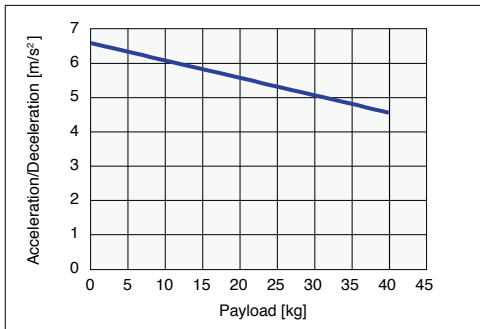


Vertical

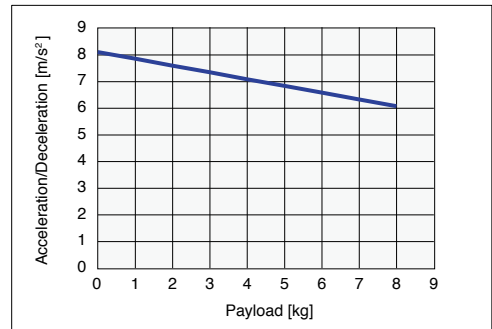


LGXS10-20

Horizontal/
Wall hanging



Vertical

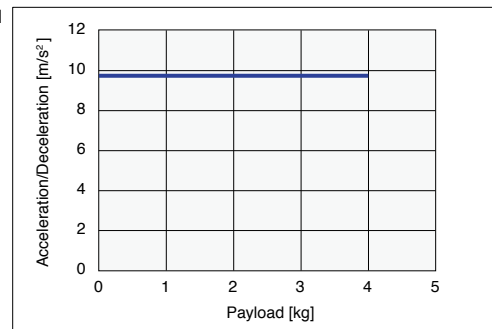


LGXS10-30

Horizontal/
Wall hanging



Vertical



■ Inertia Moment

LGXS10

Model	Effective stroke [mm]																								
	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
LGXS10-5	-	0.686	0.706	0.726	0.745	0.765	0.784	0.804	0.823	0.843	0.862	0.882	0.901	0.921	0.940	0.960	0.979	0.999	1.018	1.038	1.057	1.077	1.096	1.116	1.135
LGXS10-10	-	0.707	0.726	0.746	0.765	0.785	0.804	0.824	0.843	0.863	0.882	0.902	0.921	0.941	0.960	0.980	0.999	1.019	1.038	1.058	1.077	1.097	1.116	1.136	1.155
LGXS10-20	-	0.789	0.809	0.828	0.848	0.867	0.887	0.906	0.926	0.945	0.965	0.984	1.004	1.023	1.043	1.062	1.082	1.101	1.121	1.140	1.160	1.179	1.199	1.218	1.238
LGXS10-30	-	0.944	0.963	0.983	1.002	1.022	1.041	1.061	1.080	1.100	1.119	1.139	1.158	1.178	1.197	1.217	1.236	1.256	1.275	1.295	1.314	1.334	1.353	1.373	1.392

Features

Basic model
LBAS

LBAS
Acceleration/Deceleration
Inertia Moment

Advanced model
LGXS

LGXS
Acceleration/Deceleration
Inertia Moment

Option

Acceleration/Deceleration and Inertia Moment (Advanced model)

Acceleration/Deceleration

LGXS12

Model	LGXS12 -5 Horizontal/ Wall hanging	LGXS12 -5 Vertical	LGXS12 -10 Horizontal/ Wall hanging	LGXS12 -10 Vertical	LGXS12 -20 Horizontal/ Wall hanging	LGXS12 -20 Vertical	LGXS12 -30 Horizontal/ Wall hanging	LGXS12 -30 Vertical
0	2.27	1.9	8.61	3.29	9.73	8.11	9.75	9.75
1	2.24	1.87	8.47	3.26	9.53	7.85	9.75	9.75
2	2.22	1.84	8.33	3.24	9.35	7.6	9.75	9.75
3	2.2	1.82	8.2	3.22	9.16	7.34	9.75	9.75
4	2.18	1.79	8.06	3.19	8.98	7.09	9.75	9.75
5	2.16	1.77	7.93	3.17	8.8	6.84	9.75	9.75
6	2.14	1.74	7.8	3.15	8.62	6.58	9.75	9.75
7	2.12	1.72	7.67	3.12	8.45	6.33	9.75	9.75
8	2.1	1.69	7.54	3.1	8.28	6.07	9.75	9.75
9	2.08	1.67	7.41	3.07	8.11	5.82	9.01	
10	2.06	1.64	7.29	3.05	7.95	5.57	8.37	
11	2.04	1.62	7.16	3.02	7.79	5.31	7.82	
12	2.02	1.59	7.04	3	7.63	5.06	7.34	
13	2	1.57	6.92	2.97	7.48	4.81	6.91	
14	1.98	1.54	6.79	2.94	7.33	4.55	6.53	
15	1.96	1.52	6.67	2.92	7.18	4.3	6.19	
16	1.95	1.49	6.56	2.89	7.03		5.88	
17	1.93	1.47	6.44	2.86	6.89		5.6	
18	1.91	1.44	6.32	2.83	6.75		5.35	
19	1.89	1.41	6.21	2.81	6.61		5.12	
20	1.87	1.39	6.09	2.78	6.48		4.91	
21	1.85	1.36	5.98	2.75	6.35		4.71	
22	1.84	1.34	5.87	2.72	6.22		4.53	
23	1.82	1.31	5.76	2.69	6.1		4.37	
24	1.8	1.29	5.65	2.66	5.98		4.21	
25	1.78	1.26	5.54	2.63	5.86		4.07	
26	1.76	1.24	5.43		5.74		3.93	
27	1.75	1.21	5.32		5.63		3.81	
28	1.73	1.19	5.22		5.52		3.69	
29	1.71	1.16	5.12		5.41		3.58	
30	1.7	1.14	5.01		5.31		3.47	
31	1.68	1.11	4.91		5.21		3.37	
32	1.66	1.09	4.81		5.11		3.28	
33	1.65	1.06	4.72		5.02		3.19	
34	1.63	1.04	4.62		4.93		3.11	
35	1.61	1.01	4.52		4.84		3.03	
36	1.6	0.99	4.43		4.76			
37	1.58	0.96	4.33		4.67			
38	1.57	0.93	4.24		4.6			
39	1.55	0.91	4.15		4.52			
40	1.53	0.88	4.06		4.45			
41	1.52	0.86	3.97		4.38			
42	1.5	0.83	3.88		4.31			
43	1.49	0.81	3.8		4.25			
44	1.47	0.78	3.71		4.19			
45	1.46	0.76	3.63		4.13			
46	1.44		3.54		4.07			
47	1.43		3.46		4.02			
48	1.42		3.38		3.97			
49	1.4		3.3		3.93			
50	1.39		3.22		3.89			
51	1.37		3.15					
52	1.36		3.07					
53	1.35		3					
54	1.33		2.92					
55	1.32		2.85					
56	1.3		2.78					
57	1.29		2.71					
58	1.28		2.64					
59	1.27		2.58					
60	1.25		2.51					
61	1.24		2.44					
62	1.23		2.38					
63	1.22		2.32					
64	1.2		2.26					
65	1.19		2.2					
66	1.18		2.14					
67	1.17		2.08					
68	1.16		2.02					
69	1.14		1.97					
70	1.13		1.92					
71	1.12		1.86					
72	1.11		1.81					
73	1.1		1.76					
74	1.09		1.71					
75	1.08		1.66					
76	1.07		1.62					
77	1.06		1.57					
78	1.05		1.53					
79	1.04		1.48					
80	1.03		1.44					
81	1.02		1.4					
82	1.01		1.36					
83	1		1.32					
84	0.99		1.29					
85	0.98		1.25					
86	0.97		1.22					
87	0.96		1.18					
88	0.95		1.15					
89	0.94		1.12					

Model	LGXS12 -5 Horizontal/ Wall hanging	LGXS12 -5 Vertical	LGXS12 -10 Horizontal/ Wall hanging	LGXS12 -10 Vertical	LGXS12 -20 Horizontal/ Wall hanging	LGXS12 -20 Vertical	LGXS12 -30 Horizontal/ Wall hanging	LGXS12 -30 Vertical
90	0.94							1.09
91	0.93							1.06
92	0.92							1.03
93	0.91							1.01
94	0.9							0.98
95	0.9							0.96
96	0.89							
97	0.88							
98	0.87							
99	0.87							
100	0.86							
101	0.85							
102	0.84							
103	0.84							
104	0.83							
105	0.82							
106	0.82							
107	0.81							
108	0.81							
109	0.8							
110	0.79							
111	0.79							
112	0.78							
113	0.78							
114	0.77							
115	0.77							

Features

Basic model LBAS

LBAS Acceleration/Deceleration Inertia Moment

Advanced model LGXS

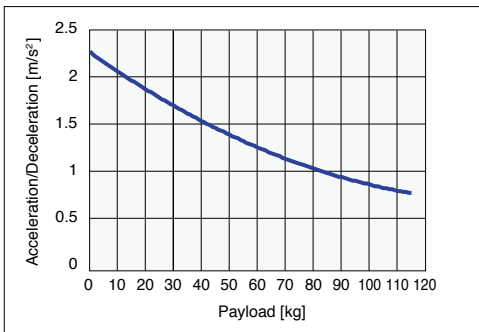
LGXS Acceleration/Deceleration Inertia Moment

Option

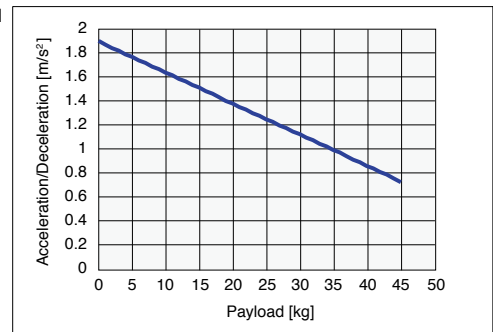
■ Payload – Acceleration/Deceleration Graph (Estimate)

LGXS12-5

Horizontal/
Wall hanging

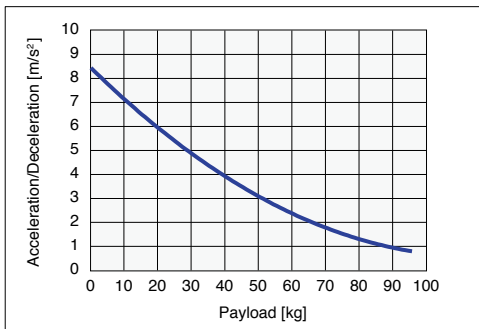


Vertical

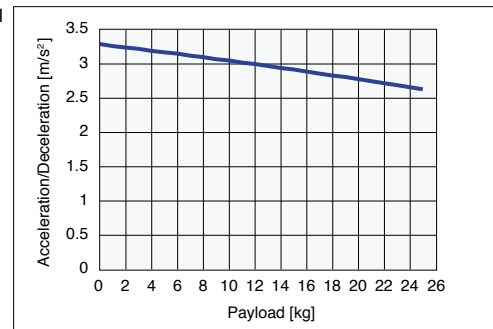


LGXS12-10

Horizontal/
Wall hanging

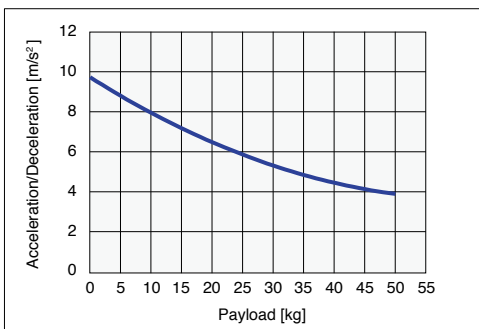


Vertical

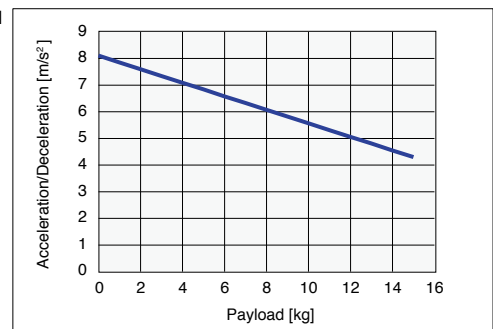


LGXS12-20

Horizontal/
Wall hanging

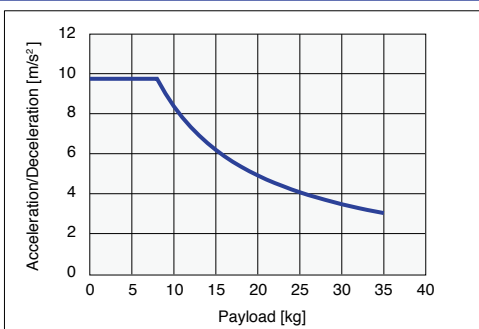


Vertical

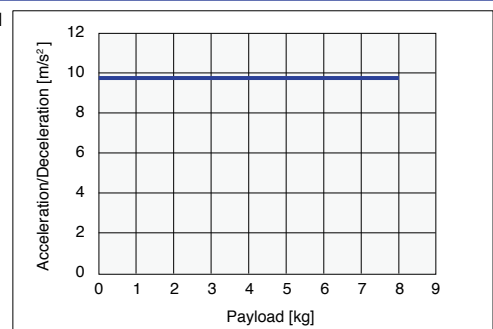


LGXS12-30

Horizontal/
Wall hanging



Vertical



■ Inertia Moment

LGXS12

[kg·m ² ×10 ⁻⁴]	Effective stroke [mm]																								
	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
LGXS12-5	-	0.702	0.721	0.741	0.761	0.780	0.800	0.819	0.839	0.858	0.878	0.897	0.917	0.936	0.956	0.975	0.995	1.014	1.034	1.053	1.073	1.092	1.112	1.131	1.151
LGXS12-10	-	0.733	0.753	0.772	0.792	0.811	0.831	0.850	0.870	0.889	0.909	0.928	0.948	0.967	0.987	1.006	1.026	1.045	1.065	1.085	1.104	1.124	1.143	1.163	1.182
LGXS12-20	-	0.862	0.881	0.901	0.920	0.940	0.959	0.979	0.998	1.018	1.037	1.057	1.076	1.096	1.115	1.135	1.154	1.174	1.193	1.213	1.232	1.252	1.271	1.291	1.310
LGXS12-30	-	1.092	1.111	1.131	1.150	1.170	1.189	1.209	1.228	1.248	1.267	1.287	1.306	1.326	1.345	1.365	1.384	1.404	1.423	1.443	1.462	1.482	1.501	1.521	1.540

Features

Basic model
LBAS

LBAS
Acceleration/Deceleration
Inertia Moment

Advanced model
LGXS

LGXS
Acceleration/Deceleration
Inertia Moment

Option

Acceleration/Deceleration and Inertia Moment (Advanced model)

Acceleration/Deceleration

LGXS16

Model	LGXS16 -10 Horizontal/ Wall hanging	LGXS16 -10 Vertical	LGXS16 -20 Horizontal/ Wall hanging	LGXS16 -20 Vertical	LGXS16 -40 Horizontal/ Wall hanging	LGXS16 -40 Vertical
0	5.07	3.8	7.6	7.99	9.6	9.6
1	5.04	3.74	7.48	7.73	9.6	9.02
2	5.01	3.69	7.36	7.47	9.6	8.45
3	4.99	3.64	7.25	7.22	9.6	7.87
4	4.96	3.59	7.14	6.97	9.6	7.3
5	4.94	3.54	7.03	6.72	9.6	6.74
6	4.91	3.49	6.93	6.47	9.6	6.17
7	4.89	3.44	6.83	6.22	9.6	5.61
8	4.86	3.39	6.73	5.97	9.6	5.04
9	4.84	3.34	6.64	5.73	9.6	4.48
10	4.81	3.29	6.55	5.48	9.6	3.92
11	4.79	3.24	6.46	5.24	9.18	3.36
12	4.76	3.19	6.37	5	8.8	2.81
13	4.74	3.14	6.29	4.76	8.45	
14	4.71	3.09	6.2	4.53	8.13	
15	4.68	3.04	6.12	4.29	7.83	
16	4.66	2.99	6.05	4.05	7.55	
17	4.63	2.94	5.97	3.82	7.3	
18	4.61	2.89	5.9	3.59	7.05	
19	4.58	2.83	5.82	3.36	6.83	
20	4.56	2.78	5.75	3.13	6.62	
21	4.53	2.73	5.68	2.9	6.42	
22	4.51	2.68	5.62	2.68	6.23	
23	4.48	2.63	5.55	2.45	6.05	
24	4.46	2.58	5.49	2.23	5.88	
25	4.43	2.53	5.42	2.01	5.73	
26	4.41	2.48	5.36	1.79	5.58	
27	4.38	2.43	5.3	1.57	5.43	
28	4.36	2.38	5.24	1.35	5.3	
29	4.33	2.33	5.19		5.17	
30	4.3	2.28	5.13		5.05	
31	4.28	2.23	5.08		4.93	
32	4.25	2.18	5.02		4.82	
33	4.23	2.13	4.97		4.71	
34	4.2	2.08	4.92		4.61	
35	4.18	2.03	4.87		4.51	
36	4.15	1.98	4.82		4.42	
37	4.13	1.93	4.77		4.33	
38	4.1	1.87	4.72		4.24	
39	4.08	1.82	4.67		4.16	
40	4.05	1.77	4.63		4.08	
41	4.03	1.72	4.58		4	
42	4	1.67	4.54		3.93	
43	3.97	1.62	4.5		3.86	
44	3.95	1.57	4.46		3.79	
45	3.92	1.52	4.41		3.72	
46	3.9	1.47	4.37			
47	3.87	1.42	4.33			
48	3.85	1.37	4.29			
49	3.82	1.32	4.26			
50	3.8	1.27	4.22			
51	3.77	1.22	4.18			
52	3.75	1.17	4.14			
53	3.72	1.12	4.11			
54	3.7	1.07	4.07			
55	3.67	1.02	4.04			
56	3.65		4			
57	3.62		3.97			
58	3.59		3.94			
59	3.57		3.9			
60	3.54		3.87			
61	3.52		3.84			
62	3.49		3.81			
63	3.47		3.78			
64	3.44		3.75			
65	3.42		3.72			
66	3.39		3.69			
67	3.37		3.66			
68	3.34		3.63			
69	3.32		3.61			
70	3.29		3.58			
71	3.27		3.55			
72	3.24		3.53			
73	3.21		3.5			
74	3.19		3.47			
75	3.16		3.45			
76	3.14		3.42			
77	3.11		3.4			
78	3.09		3.38			
79	3.06		3.35			
80	3.04		3.33			
81	3.01		3.31			
82	2.99		3.28			
83	2.96		3.26			
84	2.94		3.24			
85	2.91		3.22			
86	2.88		3.19			
87	2.86		3.17			
88	2.83		3.15			
89	2.81		3.13			

Model	LGXS16 -10 Horizontal/ Wall hanging	LGXS16 -10 Vertical	LGXS16 -20 Horizontal/ Wall hanging	LGXS16 -20 Vertical	LGXS16 -40 Horizontal/ Wall hanging	LGXS16 -40 Vertical
90	2.78				3.11	
91	2.76				3.09	
92	2.73				3.07	
93	2.71				3.05	
94	2.68				3.03	
95	2.66				3.01	
96	2.63					
97	2.61					
98	2.58					
99	2.56					
100	2.53					
101	2.5					
102	2.48					
103	2.45					
104	2.43					
105	2.4					
106	2.38					
107	2.35					
108	2.33					
109	2.3					
110	2.28					
111	2.25					
112	2.23					
113	2.2					
114	2.18					
115	2.15					
116	2.12					
117	2.1					
118	2.07					
119	2.05					
120	2.02					
121	2					
122	1.97					
123	1.95					
124	1.92					
125	1.9					
126	1.87					
127	1.85					
128	1.82					
129	1.79					
130	1.77					

Features

Basic model LBAS

LBAS Acceleration/Deceleration Inertia Moment

Advanced model LGXS

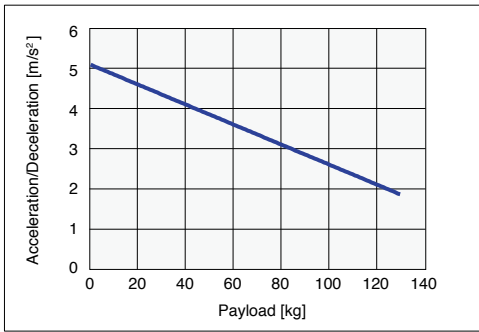
LGXS Acceleration/Deceleration Inertia Moment

Option

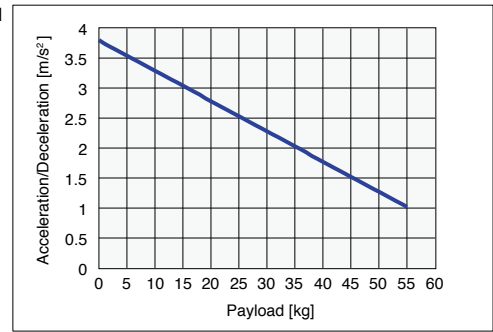
■ Payload – Acceleration/Deceleration Graph (Estimate)

LGXS16-10

Horizontal/
Wall hanging

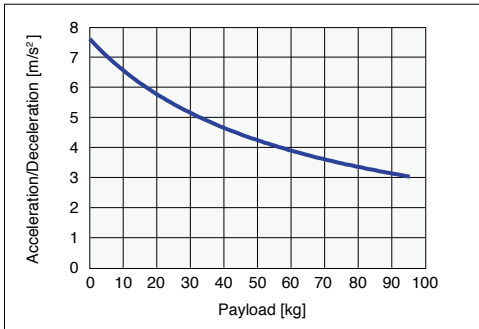


Vertical



LGXS16-20

Horizontal/
Wall hanging

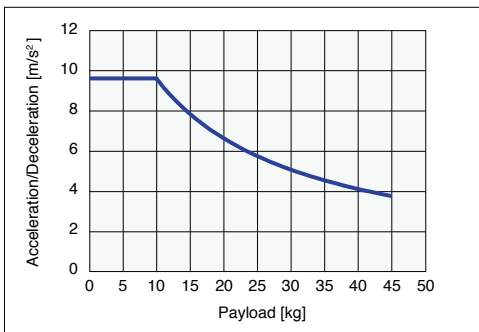


Vertical

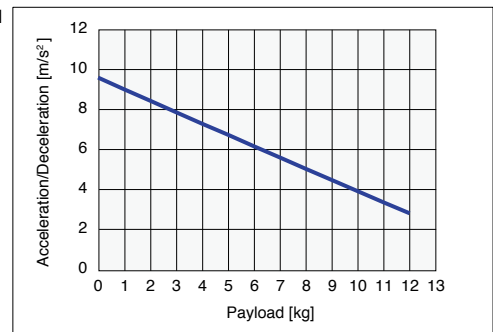


LGXS16-40

Horizontal/
Wall hanging



Vertical



■ Inertia Moment

LGXS16

Model	Effective stroke [mm]																												
	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
LGXS16-10	-	2.433	2.495	2.557	2.618	2.680	2.742	2.803	2.865	2.927	2.988	3.050	3.112	3.173	3.235	3.297	3.358	3.420	3.482	3.543	3.605	3.667	3.728	3.790	3.851	3.913	3.975	4.036	4.098
LGXS16-20	-	2.653	2.715	2.777	2.838	2.900	2.961	3.023	3.085	3.146	3.208	3.270	3.331	3.393	3.455	3.516	3.578	3.640	3.701	3.763	3.825	3.886	3.948	4.010	4.071	4.133	4.195	4.256	4.318
LGXS16-40	-	3.624	3.685	3.747	3.809	3.870	3.932	3.994	4.055	4.117	4.179	4.240	4.302	4.364	4.425	4.487	4.548	4.610	4.672	4.733	4.795	4.857	4.918	4.980	5.042	5.103	5.165	5.227	5.288

Acceleration/Deceleration and Inertia Moment (Advanced model)

Acceleration/Deceleration

LGXS20

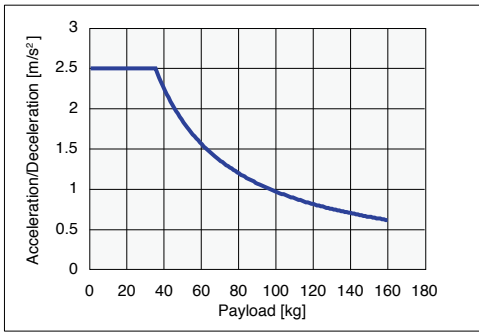
Model	LGXS20 -10		LGXS20 -20		LGXS20 -40	
	Horizontal/Wall hanging	Vertical	Horizontal/Wall hanging	Vertical	Horizontal/Wall hanging	Vertical
Payload [kg]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]
0	2.5	3.8	7.8	9.95	9.61	9.61
1	2.5	3.74	7.7	9.67	9.61	9.12
2	2.5	3.69	7.61	9.4	9.61	8.64
3	2.5	3.64	7.52	9.13	9.61	8.16
4	2.5	3.59	7.43	8.86	9.61	7.68
5	2.5	3.54	7.34	8.59	9.61	7.2
6	2.5	3.49	7.25	8.32	9.61	6.72
7	2.5	3.44	7.16	8.05	9.61	6.24
8	2.5	3.39	7.07	7.78	9.61	5.76
9	2.5	3.34	6.98	7.51	9.61	5.28
10	2.5	3.29	6.89	7.24	9.2	4.8
11	2.5	3.24	6.81	6.97	8.83	4.32
12	2.5	3.19	6.72	6.7	8.48	3.84
13	2.5	3.14	6.64	6.43	8.17	3.36
14	2.5	3.09	6.55	6.16	7.87	2.88
15	2.5	3.04	6.47	5.89	7.6	2.4
16	2.5	2.99	6.39	5.62	7.34	
17	2.5	2.94	6.31	5.35	7.1	
18	2.5	2.89	6.23	5.08	6.88	
19	2.5	2.83	6.15	4.81	6.67	
20	2.5	2.78	6.07	4.54	6.47	
21	2.5	2.73	5.99	4.27	6.28	
22	2.5	2.68	5.91	4	6.11	
23	2.5	2.63	5.83	3.73	5.94	
24	2.5	2.58	5.76	3.46	5.78	
25	2.5	2.53	5.68	3.19	5.63	
26	2.5	2.48	5.6	2.92	5.49	
27	2.5	2.43	5.53	2.65	5.36	
28	2.5	2.38	5.46	2.38	5.23	
29	2.5	2.33	5.38	2.11	5.11	
30	2.5	2.28	5.31	1.84	4.99	
31	2.5	2.23	5.24	1.57	4.88	
32	2.5	2.18	5.17	1.3	4.77	
33	2.5	2.13	5.1	1.03	4.67	
34	2.5	2.08	5.03	0.76	4.57	
35	2.5	2.03	4.96	0.5	4.48	
36	2.44	1.98	4.89		4.39	
37	2.38	1.93	4.82		4.3	
38	2.33	1.87	4.76		4.22	
39	2.28	1.82	4.69		4.14	
40	2.23	1.77	4.63		4.06	
41	2.18	1.72	4.56		3.99	
42	2.14	1.67	4.5		3.91	
43	2.09	1.62	4.43		3.85	
44	2.05	1.57	4.37		3.78	
45	2.01	1.52	4.31		3.71	
46	1.97	1.47	4.25		3.65	
47	1.94	1.42	4.19		3.59	
48	1.9	1.37	4.13		3.53	
49	1.87	1.32	4.07		3.48	
50	1.83	1.27	4.01		3.42	
51	1.8	1.22	3.95		3.37	
52	1.77	1.17	3.9		3.32	
53	1.74	1.12	3.84		3.27	
54	1.71	1.07	3.79		3.22	
55	1.68	1.02	3.73		3.17	
56	1.66	0.96	3.68		3.13	
57	1.63	0.91	3.63		3.08	
58	1.61	0.86	3.57		3.04	
59	1.58	0.81	3.52		3	
60	1.56	0.76	3.47		2.96	
61	1.53	0.71	3.42		2.92	
62	1.51	0.66	3.37		2.88	
63	1.49	0.61	3.32		2.84	
64	1.47	0.56	3.27		2.8	
65	1.45	0.51	3.23		2.77	
66	1.43		3.18			
67	1.41		3.13			
68	1.39		3.09			
69	1.37		3.04			
70	1.35		3			
71	1.34		2.96			
72	1.32		2.92			
73	1.3		2.87			
74	1.29		2.83			
75	1.27		2.79			
76	1.26		2.75			
77	1.24		2.72			
78	1.23		2.68			
79	1.21		2.64			
80	1.2		2.6			
81	1.18		2.57			
82	1.17		2.53			
83	1.16		2.5			
84	1.14		2.46			
85	1.13		2.43			
86	1.12		2.4			
87	1.11		2.37			
88	1.1		2.34			
89	1.08		2.31			

Model	LGXS20 -10		LGXS20 -20		LGXS20 -40	
	Horizontal/Wall hanging	Vertical	Horizontal/Wall hanging	Vertical	Horizontal/Wall hanging	Vertical
Payload [kg]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]	Acceleration/Deceleration [m/s ²]
90	1.07				2.28	
91	1.06				2.25	
92	1.05				2.22	
93	1.04				2.19	
94	1.03				2.17	
95	1.02				2.14	
96	1.01				2.12	
97	1				2.09	
98	0.99				2.07	
99	0.98				2.05	
100	0.97				2.02	
101	0.96				2	
102	0.95				1.98	
103	0.94				1.96	
104	0.94				1.94	
105	0.93				1.92	
106	0.92				1.9	
107	0.91				1.89	
108	0.9				1.87	
109	0.9				1.86	
110	0.89				1.84	
111	0.88				1.83	
112	0.87				1.81	
113	0.87				1.8	
114	0.86				1.79	
115	0.85				1.78	
116	0.84				1.77	
117	0.84				1.76	
118	0.83				1.75	
119	0.82				1.74	
120	0.82				1.73	
121	0.81				1.72	
122	0.8				1.72	
123	0.8				1.71	
124	0.79				1.71	
125	0.79				1.7	
126	0.78				1.7	
127	0.77				1.69	
128	0.77				1.69	
129	0.76				1.69	
130	0.76				1.69	
131	0.75					
132	0.75					
133	0.74					
134	0.74					
135	0.73					
136	0.73					
137	0.72					
138	0.72					
139	0.71					
140	0.71					
141	0.7					
142	0.7					
143	0.69					
144	0.69					
145	0.68					
146	0.68					
147	0.67					
148	0.67					
149	0.66					
150	0.66					
151	0.66					
152	0.65					
153	0.65					
154	0.64					
155	0.64					
156	0.64					
157	0.63					
158	0.63					
159	0.62					
160	0.62					

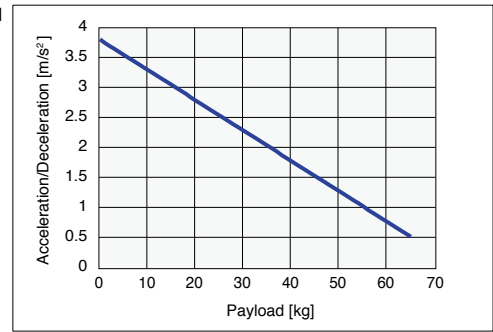
■ Payload – Acceleration/Deceleration Graph (Estimate)

LGXS20-10

Horizontal/
Wall hanging

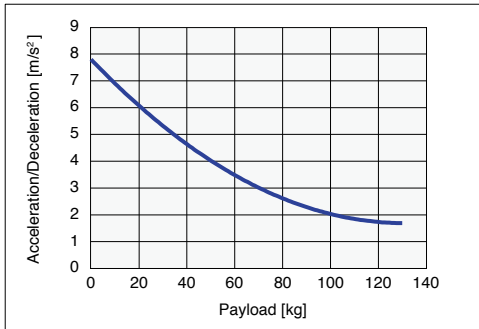


Vertical

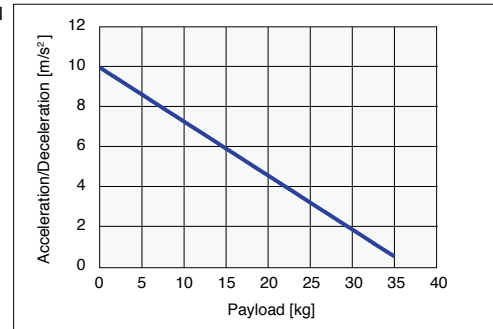


LGXS20-20

Horizontal/
Wall hanging

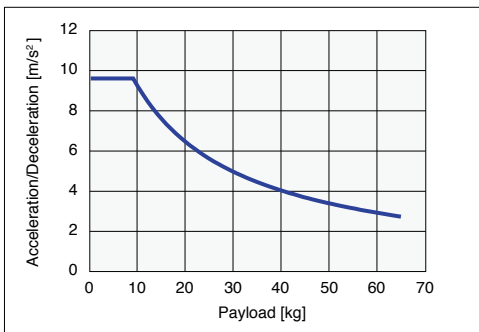


Vertical

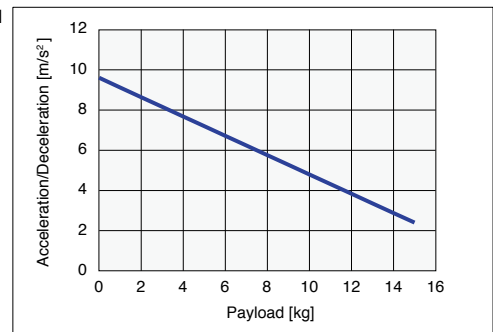


LGXS20-40

Horizontal/
Wall hanging



Vertical



■ Inertia Moment

LGXS20

Model	Effective stroke [mm]																												
	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
LGXS20-10	-	2.524	2.585	2.647	2.709	2.770	2.832	2.894	2.955	3.017	3.079	3.140	3.202	3.264	3.325	3.387	3.448	3.510	3.572	3.633	3.695	3.757	3.818	3.880	3.942	4.003	4.065	4.127	4.188
LGXS20-20	-	2.863	2.924	2.986	3.048	3.109	3.171	3.232	3.294	3.356	3.417	3.479	3.541	3.602	3.664	3.726	3.787	3.849	3.911	3.972	4.034	4.096	4.157	4.219	4.281	4.342	4.404	4.466	4.527
LGXS20-40	-	4.309	4.371	4.433	4.494	4.556	4.618	4.679	4.741	4.803	4.864	4.926	4.988	5.049	5.111	5.173	5.234	5.296	5.357	5.419	5.481	5.542	5.604	5.666	5.727	5.789	5.851	5.912	5.974

Features

Basic model
LBAS

LBAS
Acceleration/Deceleration
Inertia Moment

Advanced model
LGXS

LGXS
Acceleration/Deceleration
Inertia Moment

Option

Robonity series

External Sensor Installation Guide (Left side shown)

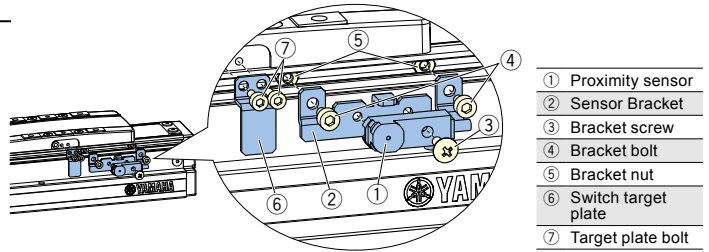
■ Sensor Spec

Item	Specification
Manufacturer	Panasonic Industrial Device SUNX, Co., Ltd.
Model	GX-F8A GX-F8B
Output method	NPN type
Output action	ON when approaching ON when leaving
Power voltage	DC12 to 24V
Load current	100 mA or less
Consumption current	15 mA or less

Item	Specification
Display lamp	Orange LED (ON when output ON)
Ambient environment and humidity	-25 to +75 °C, 35 to 85 %RH
Protection structure	IP68
Cable length	5 m

[Caution]

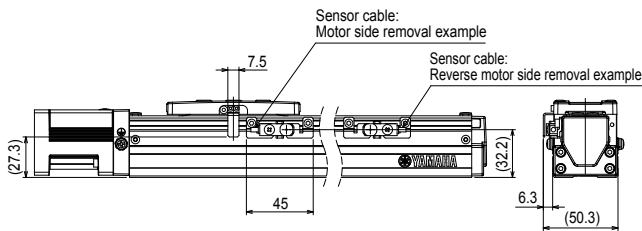
- Bracket screw tightening torque: 0.5 N-m
- The detection surface of the sensor and sensor plate clearance is approx. 1 mm.



- ① Proximity sensor
- ② Sensor Bracket
- ③ Bracket screw
- ④ Bracket bolt
- ⑤ Bracket nut
- ⑥ Switch target plate
- ⑦ Target plate bolt

Note 1. Installation is users' responsibility
 Note 2. Mounting hardware included
 Note 3. Sensor cable is 5 m. Adjust as needed.
 Note 4. Sensor cable outlet can be either motor end or no motor end of actuator

LBAS04



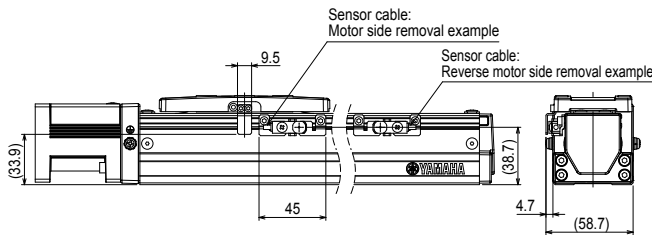
Proximity sensor option

Class	Name	Number		Qty	Remarks
		ON when approaching (a contact)	ON when leaving (b contact)		
Assy	Proximity sensor option	KFU-M2205-10	KFU-M2205-00		
Component	① Proximity sensor	KES-M4855-00	KP6-M4855-01	1	
	② Sensor Bracket	KFU-M22FF-00		1	
	③ Bracket screw	90990-66J004		1	M3 × 0.5 Length 8
	④ Bracket bolt	91312-03005		2	M3 × 0.5 Length 5
	⑤ Bracket nut	95302-03700		2	M3

Target plate option

Class	Name	Number	Qty	Remarks
Component	⑥ Switch target plate	KFT-M22G5-00	1	
	⑦ Target plate bolt	90112-02J005	2	M2 × 0.4 Length 5

LBAS05



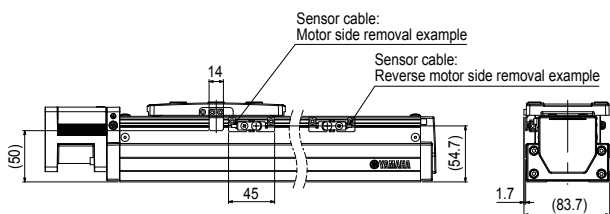
Proximity sensor option

Class	Name	Number		Qty	Remarks
		ON when approaching (a contact)	ON when leaving (b contact)		
Assy	Proximity sensor option	KFU-M2205-10	KFU-M2205-00		
Component	① Proximity sensor	KES-M4855-00	KP6-M4855-01	1	
	② Sensor Bracket	KFU-M22FF-00		1	
	③ Bracket screw	90990-66J004		1	M3 × 0.5 Length 8
	④ Bracket bolt	91312-03005		2	M3 × 0.5 Length 5
	⑤ Bracket nut	95302-03700		2	M3

Target plate option

Class	Name	Number	Qty	Remarks
Component	⑥ Switch target plate	KFU-M22G5-00	1	
	⑦ Target plate bolt	90112-2AJ005	2	M2.5 × 0.4 Length 5

LBAS08



Proximity sensor option

Class	Name	Number		Qty	Remarks
		ON when approaching (a contact)	ON when leaving (b contact)		
Assy	Proximity sensor option	KFU-M2205-10	KFU-M2205-00		
Component	① Proximity sensor	KES-M4855-00	KP6-M4855-01	1	
	② Sensor Bracket	KFU-M22FF-00		1	
	③ Bracket screw	90990-66J004		1	M3 × 0.5 Length 8
	④ Bracket bolt	91312-03005		2	M3 × 0.5 Length 5
	⑤ Bracket nut	95302-03700		2	M3

Target plate option

Class	Name	Number	Qty	Remarks
Component	⑥ Switch target plate	KFU-M22G5-00	1	
	⑦ Target plate bolt	91312-03005	2	M3 × 0.5 Length 5

■ Grease Gun Nozzle (LBAS Model)

Specially designed for LBAS model for lubrication on ball screw and linear guide.

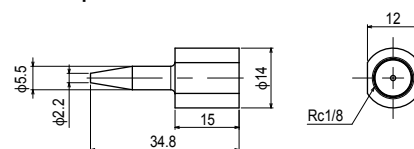
* It can be used by attaching to a commercially available general grease gun.

● Lubrication Kit

Grease nozzle and nozzle tip

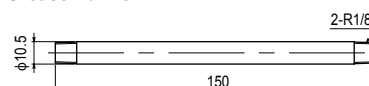
Part number KFU-M3861-00

● Nozzle tip



Part number KFU-M2941-00

● Grease nozzle



Part number KFU-M2942-00

Robonity series

External Sensor Installation Guide (Left side shown)

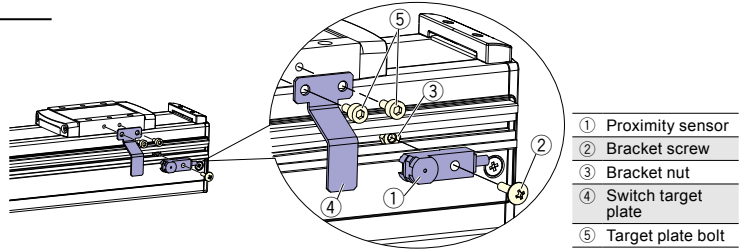
■ Sensor Spec

Item	Specification	
Manufacturer	Panasonic Industrial Device SUNX, Co., Ltd.	
Model	GX-F8A	GX-F8B
Output method	NPN type	
Output action	ON when approaching	ON when leaving
Power voltage	DC12 to 24V	
Load current	100 mA or less	
Consumption current	15 mA or less	

Item	Specification
Display lamp	Orange LED (ON when output ON)
Ambient environment and humidity	-25 to +75 °C, 35 to 85 %RH
Protection structure	IP68
Cable length	5 m

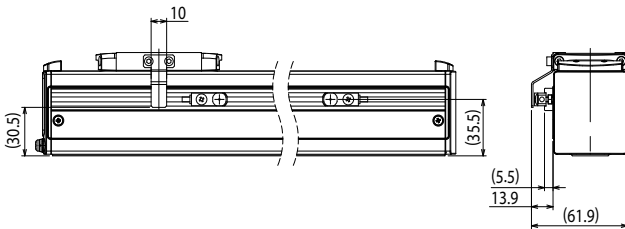
[Caution]

- Bracket screw tightening torque: 0.5 N-m
- The detection surface of the sensor and sensor plate clearance is approx. 1 mm.



- Note 1. Installation is users' responsibility
 Note 2. Mounting hardware included
 Note 3. Sensor cable is 5 m. Adjust as needed.
 Note 4. To install the sensor option, side cover with T groove is needed.

LGXS05



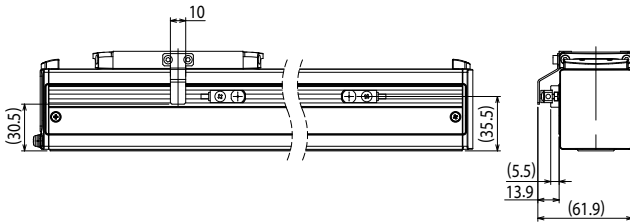
Proximity sensor option

Class	Name	Number		Qty	Remarks
		ON when approaching (a contact)	ON when leaving (b contact)		
Assy	Proximity sensor option	KES-M2205-10	KES-M2205-00		
Component	① Proximity sensor	KES-M4855-00	KP6-M4855-01	1	
	② Bracket screw	90990-66J025		1	M3 × 0.5 Length 10
	③ Bracket nut	95302-03600		2	M3

Target plate option

Class	Name	Number	Qty	Remarks
Component	⑥ Switch target plate	KES-M22G5-00	1	
	⑦ Target plate bolt	91312-03006	2	M3 × 0.5 Length 6

LGXS05L



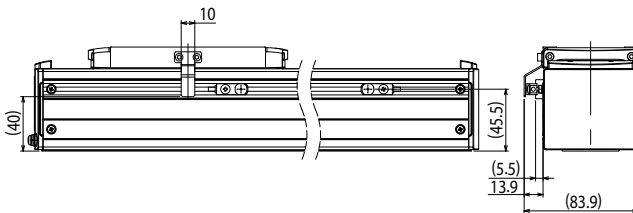
Proximity sensor option

Class	Name	Number		Qty	Remarks
		ON when approaching (a contact)	ON when leaving (b contact)		
Assy	Proximity sensor option	KES-M2205-10	KES-M2205-00		
Component	① Proximity sensor	KES-M4855-00	KP6-M4855-01	1	
	② Bracket screw	90990-66J025		1	M3 × 0.5 Length 10
	③ Bracket nut	95302-03600		2	M3

Target plate option

Class	Name	Number	Qty	Remarks
Component	⑥ Switch target plate	KES-M22G5-00	1	
	⑦ Target plate bolt	91312-03006	2	M3 × 0.5 Length 6

LGXS07



Proximity sensor option

Class	Name	Number		Qty	Remarks
		ON when approaching (a contact)	ON when leaving (b contact)		
Assy	Proximity sensor option	KES-M2205-10	KES-M2205-00		
Component	① Proximity sensor	KES-M4855-00	KP6-M4855-01	1	
	② Bracket screw	90990-66J025		1	M3 × 0.5 Length 10
	③ Bracket nut	95302-03600		2	M3

Target plate option

Class	Name	Number	Qty	Remarks
Component	⑥ Switch target plate	KES-M22G5-00	1	
	⑦ Target plate bolt	91312-03006	2	M3 × 0.5 Length 6

Features

Basic model LBAS

LBAS Acceleration/Deceleration Inertia Moment

Advanced model LGXS

LGXS Acceleration/Deceleration Inertia Moment

Option

External Sensor Installation Guide (Left side shown) (Advanced Model)

Robonity series

External Sensor Installation Guide (Left side shown)

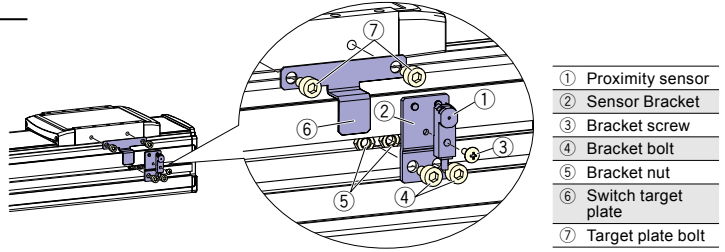
■ Sensor Spec

Item	Specification	
Manufacturer	Panasonic Industrial Device SUNX, Co., Ltd.	
Model	GX-F8A	GX-F8B
Output method	NPN type	
Output action	ON when approaching	ON when leaving
Power voltage	DC12 to 24V	
Load current	100 mA or less	
Consumption current	15 mA or less	

Item	Specification
Display lamp	Orange LED (ON when output ON)
Ambient environment and humidity	-25 to +75 °C, 35 to 85 %RH
Protection structure	IP68
Cable length	5 m

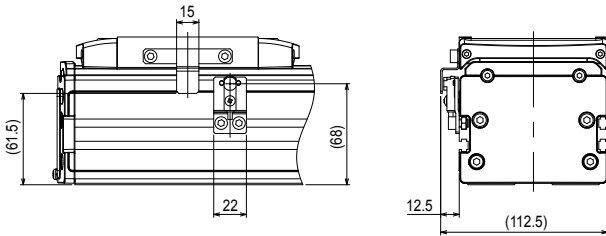
[Caution]

- Bracket screw tightening torque: 0.5 N-m
- The detection surface of the sensor and sensor plate clearance is approx. 1 mm.



Note 1. Installation is users' responsibility
 Note 2. Mounting hardware included
 Note 3. Sensor cable is 5 m. Adjust as needed.

LGXS10



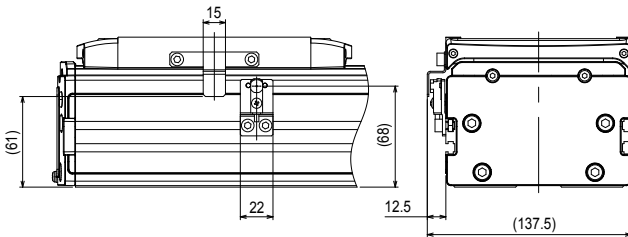
Proximity sensor option

Class	Name	Number		Qty	Remarks
		ON when approaching (a contact)	ON when leaving (b contact)		
Assy	Proximity sensor option	KEV-M2205-10	KEV-M2205-00		
Component	① Proximity sensor	KES-M4855-00	KP6-M4855-01	1	
	② Sensor Bracket	KEV-M22FF-00		1	
	③ Bracket screw	90990-66J004		1	M3 × 0.5 Length 8
	④ Bracket bolt	91312-05008		2	M5 × 0.8 Length 8
	⑤ Bracket nut	95302-05700		2	M5

Target plate option

Class	Name	Number	Qty	Remarks
Assy	Target plate option	KEV-M2206-00		
Component	⑥ Switch target plate	KEV-M22G5-00	1	
	⑦ Target plate bolt	91312-05008	2	M5 × 0.8 Length 8

LGXS12



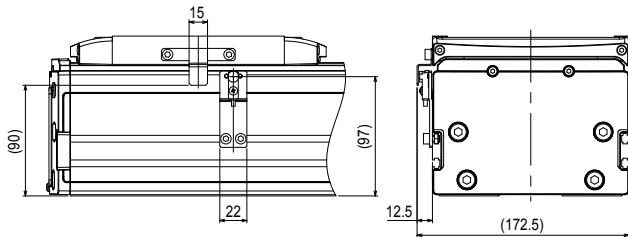
Proximity sensor option

Class	Name	Number		Qty	Remarks
		ON when approaching (a contact)	ON when leaving (b contact)		
Assy	Proximity sensor option	KEV-M2205-10	KEV-M2205-00		
Component	① Proximity sensor	KES-M4855-00	KP6-M4855-01	1	
	② Sensor Bracket	KEV-M22FF-00		1	
	③ Bracket screw	90990-66J004		1	M3 × 0.5 Length 8
	④ Bracket bolt	91312-05008		2	M5 × 0.8 Length 8
	⑤ Bracket nut	95302-05700		2	M5

Target plate option

Class	Name	Number	Qty	Remarks
Assy	Target plate option	KEV-M2206-00		
Component	⑥ Switch target plate	KEV-M22G5-00	1	
	⑦ Target plate bolt	91312-05008	2	M5 × 0.8 Length 8

LGXS16



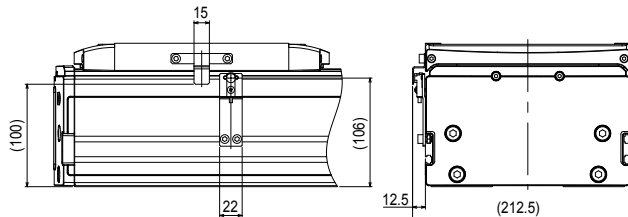
Proximity sensor option

Class	Name	Number		Qty	Remarks
		ON when approaching (a contact)	ON when leaving (b contact)		
Assy	Proximity sensor option	KEX-M2205-10	KEX-M2205-00		
Component	① Proximity sensor	KES-M4855-00	KP6-M4855-01	1	
	② Sensor Bracket	KEX-M22FF-00		1	
	③ Bracket screw	90990-66J004		1	M3 × 0.5 Length 8
	④ Bracket bolt	91312-05008		2	M5 × 0.8 Length 8
	⑤ Bracket nut	95302-05700		2	M5

Target plate option

Class	Name	Number	Qty	Remarks
Assy	Target plate option	KEV-M2206-00		
Component	⑥ Switch target plate	KEV-M22G5-00	1	
	⑦ Target plate bolt	91312-05008	2	M5 × 0.8 Length 8

LGXS20



Proximity sensor option

Class	Name	Number		Qty	Remarks
		ON when approaching (a contact)	ON when leaving (b contact)		
Assy	Proximity sensor option	KEY-M2205-10	KEY-M2205-00		
Component	① Proximity sensor	KES-M4855-00	KP6-M4855-01	1	
	② Sensor Bracket	KEY-M22FF-00		1	
	③ Bracket screw	90990-66J004		1	M3 × 0.5 Length 8
	④ Bracket bolt	91312-05008		2	M5 × 0.8 Length 8
	⑤ Bracket nut	95302-05700		2	M5

Target plate option

Class	Name	Number	Qty	Remarks
Assy	Target plate option	KEV-M2206-00		
Component	⑥ Switch target plate	KEV-M22G5-00	1	
	⑦ Target plate bolt	91312-05008	2	M5 × 0.8 Length 8

Features

Basic model LBAS

LBAS Acceleration/Deceleration Inertia Moment

Advanced model LGXS

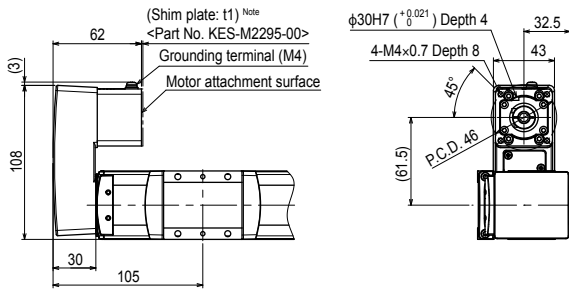
LGXS Acceleration/Deceleration Inertia Moment

Option

Robonity series

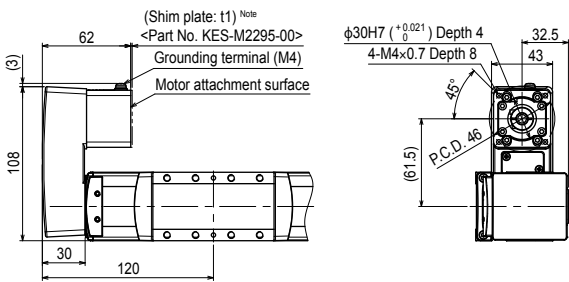
Reference guide for right angle motor mount (right side shown)

LGXS05



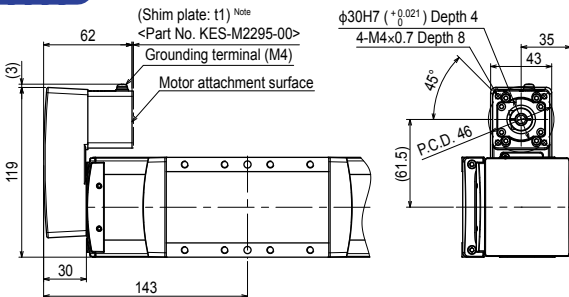
Note. For the availability of shim plate, see the adaptable servo motor table (P.15).

LGXS05L



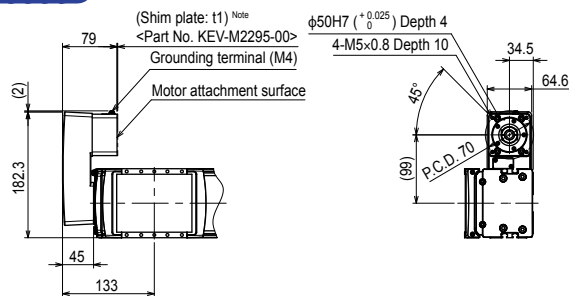
Note. For the availability of shim plate, see the adaptable servo motor table (P.16).

LGXS07



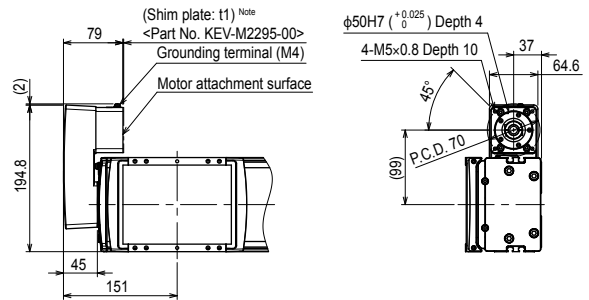
Note. For the availability of shim plate, see the adaptable servo motor table (P.17).

LGXS10



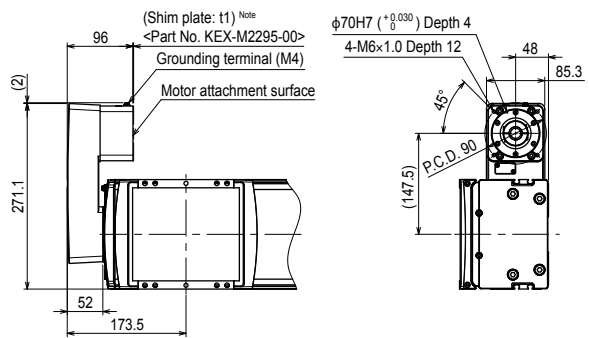
Note. For the availability of shim plate, see the adaptable servo motor table (P.18).

LGXS12



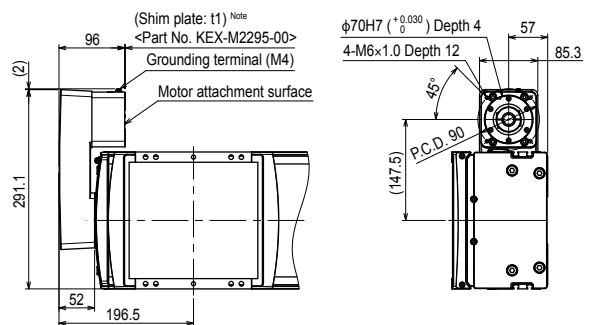
Note. For the availability of shim plate, see the adaptable servo motor table (P.19).

LGXS16



Note. For the availability of shim plate, see the adaptable servo motor table (P.20).

LGXS20



Note. For the availability of shim plate, see the adaptable servo motor table (P.21).

Note 1. Use by attaching the conversion adapter to the main unit. Refer to the manual for the attachment method.

Note 2. A motor is not included in the conversion adapter. Remove a motor from the main unit, and install the conversion adapter.

Note 3. Right installation and left installation are possible.

Model	Product model	Part No.	Weight
LGXS05, LGXS05L, LGXS07	GX-BEND-40	KES-M221M-00	0.4 kg
LGXS10, LGXS12	GX-BEND-60	KEV-M221M-00	1.2 kg
LGXS16, LGXS20	GX-BEND-80	KEX-M221M-00	2.7 kg

Features

Basic model LBAS

LBAS Acceleration/Deceleration Inertia Moment

Advanced model LGXS

LGXS Acceleration/Deceleration Inertia Moment

Option

Basic Specifications List

A motor is not attached to this product.
For a motor and driver, prepare, attach, and adjust by the customer.

Basic model LBAS

Model	LBAS04		LBAS05				LBAS08					
Adaptable motor	50 W		100 W				200 W					
Repeatability ^{Note 1}	+/-0.01 mm		+/-0.01 mm				+/-0.01 mm					
Deceleration mechanism	Shifting position ball screw φ 10 (C7 class)		Shifting position ball screw φ 12 (C7 class)				Shifting position ball screw φ 16 (C7 class)					
Stroke	50 mm to 800 mm (50 mm pitch)		50 mm to 800 mm (50 mm pitch)				50 mm to 1100 mm (50 mm pitch)					
Maximum speed ^{Note 2} (or equivalent)	800 mm/sec	400 mm/sec	1333 mm/sec	666 mm/sec	333 mm/sec	133 mm/sec	1200 mm/sec	600 mm/sec	300 mm/sec			
Ball screw lead	12 mm	6 mm	20 mm	10 mm	5 mm	2 mm	20 mm	10 mm	5 mm			
Maximum payload ^{Note 3} (or equivalent)	Horizontal 12 kg		Vertical 2 kg		Horizontal 20 kg		Vertical 5 kg		Horizontal 100 kg		Vertical 30 kg	
Rated thrust ^{Note 3} (or equivalent)	71 N	141 N	84 N	169 N	339 N	854 N	174 N	341 N	683 N			
Maximum dimensions of cross section of main unit	W 44 mm × H 52 mm		W 54 mm × H 60 mm				W 82 mm × H 78 mm					
Overall length	ST + 214 mm		ST + 220.5 mm				ST + 278 mm					
Using ambient temperature and humidity	0 to 40 °C, 35 to 80 %RH (non-condensing)											

- 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 speed.
- Note 3. The rated thrust and maximum transferable weight are values assuming the attached motor outputs the rated torque.

Advanced model LGXS

Model	LGXS05			LGXS05L			LGXS07					
Adaptable motor	50 W			100 W			100 W					
Repeatability ^{Note 1}	+/-0.005 mm			+/-0.005 mm			+/-0.005 mm					
Deceleration mechanism	Ground ball screw φ 12 (C5 class)			Ground ball screw φ 12 (C5 class)			Ground ball screw φ 15 (C5 class)					
Stroke	50 mm to 800 mm (50 mm pitch)			50 mm to 800 mm (50 mm pitch)			50 mm to 1100 mm (50 mm pitch)					
Maximum speed ^{Note 2} (or equivalent)	1333 mm/sec	666 mm/sec	333 mm/sec	1333 mm/sec	666 mm/sec	333 mm/sec	1800 mm/sec	1200 mm/sec	600 mm/sec	300 mm/sec		
Ball screw lead	20 mm	10 mm	5 mm	20 mm	10 mm	5 mm	30 mm	20 mm	10 mm	5 mm		
Maximum payload ^{Note 3} (or equivalent)	Horizontal 5 kg			Vertical 2 kg			Horizontal 13 kg			Vertical 8 kg		
Rated thrust ^{Note 3} (or equivalent)	41 N	69 N	138 N	84 N	169 N	339 N	56 N	84 N	169 N	339 N		
Maximum dimensions of cross section of main unit	W 48 mm × H 65 mm			W 48 mm × H 65 mm			W 70 mm × H 76.5 mm					
Overall length	ST + 131.5 mm			ST + 161.5 mm			ST + 202 mm					
Degree of cleanliness ^{Note 4}	ISO CLASS 3 (ISO14644-1) or equivalent											
Intake air ^{Note 5}	30 Nℓ/min to 100 Nℓ/min			30 Nℓ/min to 100 Nℓ/min			30 Nℓ/min to 115 Nℓ/min					
Using ambient temperature and humidity	0 to 40 °C, 35 to 80 %RH (non-condensing)											

- 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 speed.
- Note 3. The rated thrust and maximum transferable weight are values assuming the attached motor outputs the rated torque.
- Note 4. 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.
- Note 5. The required suction amount will vary according to the operating conditions and operating environment.

Model	LGXS10				LGXS12				LGXS16			LGXS20				
Adaptable motor	200 W				400 W				750 W			750 W				
Repeatability ^{Note 1}	+/-0.005 mm				+/-0.005 mm				+/-0.005 mm			+/-0.005 mm				
Deceleration mechanism	Ground ball screw φ 15 (C5 class)				Ground ball screw φ 15 (C5 class)				Ground ball screw φ 20 (C5 class)			Ground ball screw φ 20 (C5 class)				
Stroke	100 mm to 1250 mm (50 mm pitch)				100 mm to 1250 mm (50 mm pitch)				100 mm to 1450 mm (50 mm pitch)			100 mm to 1450 mm (50 mm pitch)				
Maximum speed ^{Note 2} (or equivalent)	1800 mm/sec	1200 mm/sec	600 mm/sec	300 mm/sec	1800 mm/sec	1200 mm/sec	600 mm/sec	300 mm/sec	2400 mm/sec	1200 mm/sec	600 mm/sec	2400 mm/sec	1200 mm/sec	600 mm/sec		
Ball screw lead	30 mm	20 mm	10 mm	5 mm	30 mm	20 mm	10 mm	5 mm	40 mm	20 mm	10 mm	40 mm	20 mm	10 mm		
Maximum payload ^{Note 3} (or equivalent)	Horizontal 25 kg				Vertical 4 kg				Horizontal 80 kg				Vertical 20 kg			
Rated thrust ^{Note 3} (or equivalent)	113 N	170 N	341 N	683 N	225 N	339 N	678 N	1360 N	320 N	640 N	1280 N	320 N	640 N	1280 N		
Maximum dimensions of cross section of main unit	W 100 mm × H 99.5 mm				W 125 mm × H 101 mm				W 160 mm × H 130 mm			W 200 mm × H 140 mm				
Overall length	ST + 175.5 mm				ST + 211.5 mm				ST + 242.5 mm			ST + 288.5 mm				
Degree of cleanliness ^{Note 4}	ISO CLASS 3 (ISO14644-1) or equivalent															
Intake air ^{Note 5}	30 Nℓ/min to 90 Nℓ/min															
Using ambient temperature and humidity	0 to 40 °C, 35 to 80 %RH (non-condensing)															



www.iptech1.com | (877) 478-3241 | help@iptech1.com



YAMAHA

YAMAHA MOTOR CO., LTD.

Robotics Operations FA Section

127 Toyooka, Kita-ku, Hamamatsu, Shizuoka 433-8103, Japan
 Tel. +81-53-525-8350 Fax. +81-53-525-8378

URL <https://global.yamaha-motor.com/business/robot/>
 E-MAIL robotn@yamaha-motor.co.jp

●Specifications and appearance are subject to change without prior notice.