

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

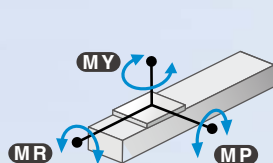
Maximum payload 2 kg to 100 kg
Maximum speed 133 to 1,333 mm/sec
Stroke 50 to 1,100 mm



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

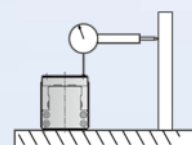
Moment rigidity is increased approximately three times from current models.



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

High Precision

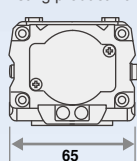
Straightness (running parallelism):
 $\pm 0.02/800 \text{ mm}$



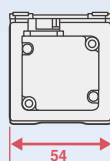
Compact

Frame width is reduced by approximately 20% from current models

Existing product T6L



LBAS05



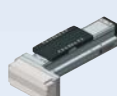
Motor attaching direction, Easily changeable with the special bending part

Straight type

Bending type



Standard



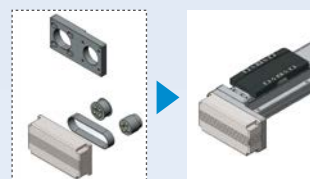
Left



Right

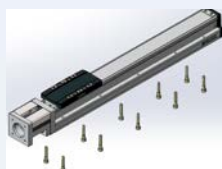
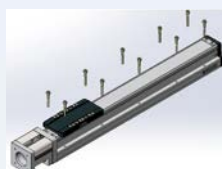


Bottom

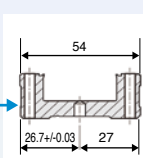


Installation process is simple and easy

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.

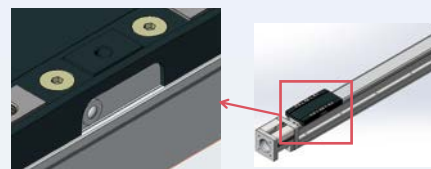


Standard surface



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

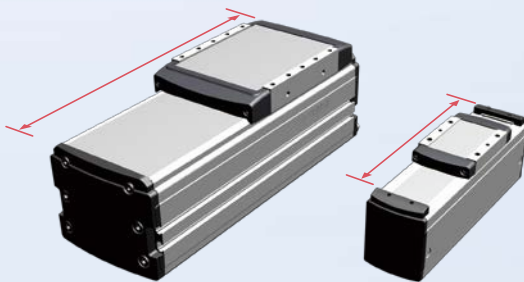
Clean specification as
a standard feature

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.

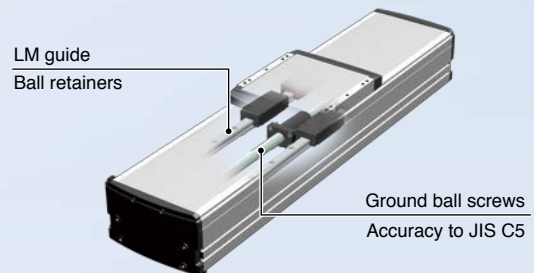
Shortest Overall Length

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



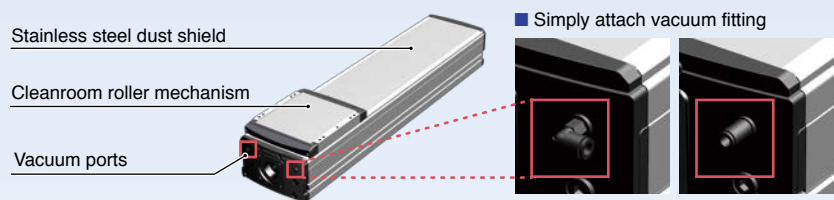
High Precision

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



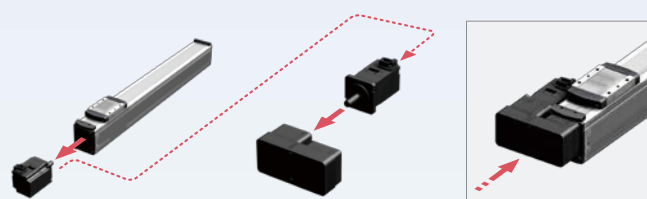
Cleanroom Ready Design

- 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 ^{Note 1}	+/-0.01 mm
Deceleration mechanism	Shifting position ball screw ϕ 10 (C7 class)
Stroke	50 mm to 800 mm (50 mm pitch)
Maximum speed ^{Note 2} (or equivalent)	800 mm/sec 400 mm/sec
Ball screw lead	12 mm 6 mm
Maximum payload ^{Note 3} (or equivalent)	Horizontal 12 kg 20 kg Vertical 2 kg 5 kg
Rated thrust ^{Note 3} (or equivalent)	71 N 141 N
Maximum dimensions of cross section of main unit	W 44 mm $\times$ 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

MY	MP	MR
54	54	75

Allowable overhang ^{Note}

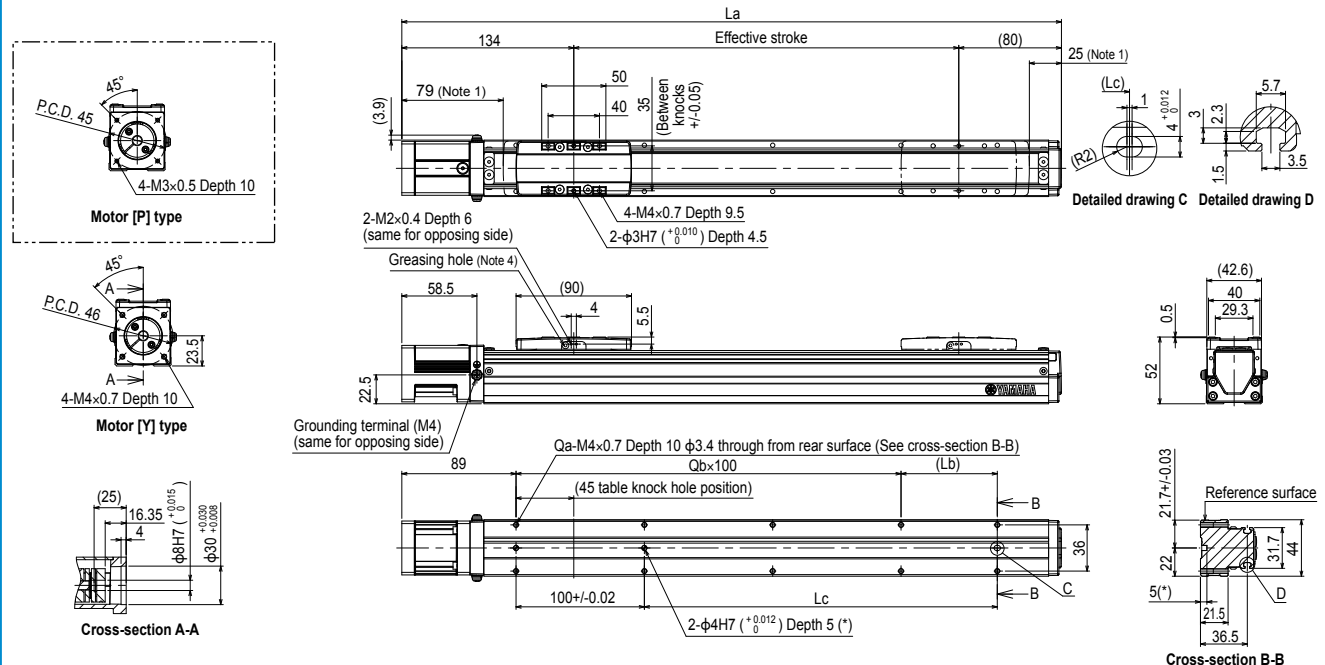
LBAS04-12			
Horizontal installation (Unit: mm)			
	A	B	C
2kg	1187	271	325
8kg	473	62	77
12kg	431	41	53
Wall installation (Unit: mm)			
	A	B	C
2kg	325	271	1187
8kg	77	62	473
12kg	53	41	431
Vertical installation (Unit: mm)			
	A	B	C
1kg	534	534	534
2kg	265	265	265
LBAS04-6			
Horizontal installation (Unit: 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	B	C
1kg	639	639	639
3kg	208	208	208
5kg	122	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	Wattage
	$\square$ 40	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
	Yaskawa Electric Corp.	SGMJ7-A5
	Keyence Corp.	SV- $\square$ 005
	Keyence Corp.	SV2- $\square$ 005
	Mitsubishi Electric Corp.	HF-KP053
	Mitsubishi Electric Corp.	HG-KR053
	Mitsubishi Electric Corp.	HK-KT053
	Omron Electronics	R88M-K05030
	Omron Electronics	R88M-1M05030
	Sanyo Denki	R2 $\square$ A04005
P	Tamagawa Seiki	TSM3102
	Delta Electronics	ECMA-C1040F
	Fanuc Corp.	β iS0.2/5000
	Siemens	1FK2102-0AG
	Siemens	1FL6022-2AF
	Schneider	BCH2MBA53
	Beckhoff	AM3011B *
	Allen-Bradley	TLY-A120 *
	Panasonic Corp.	MSMD5A
	Panasonic Corp.	MSMF5A

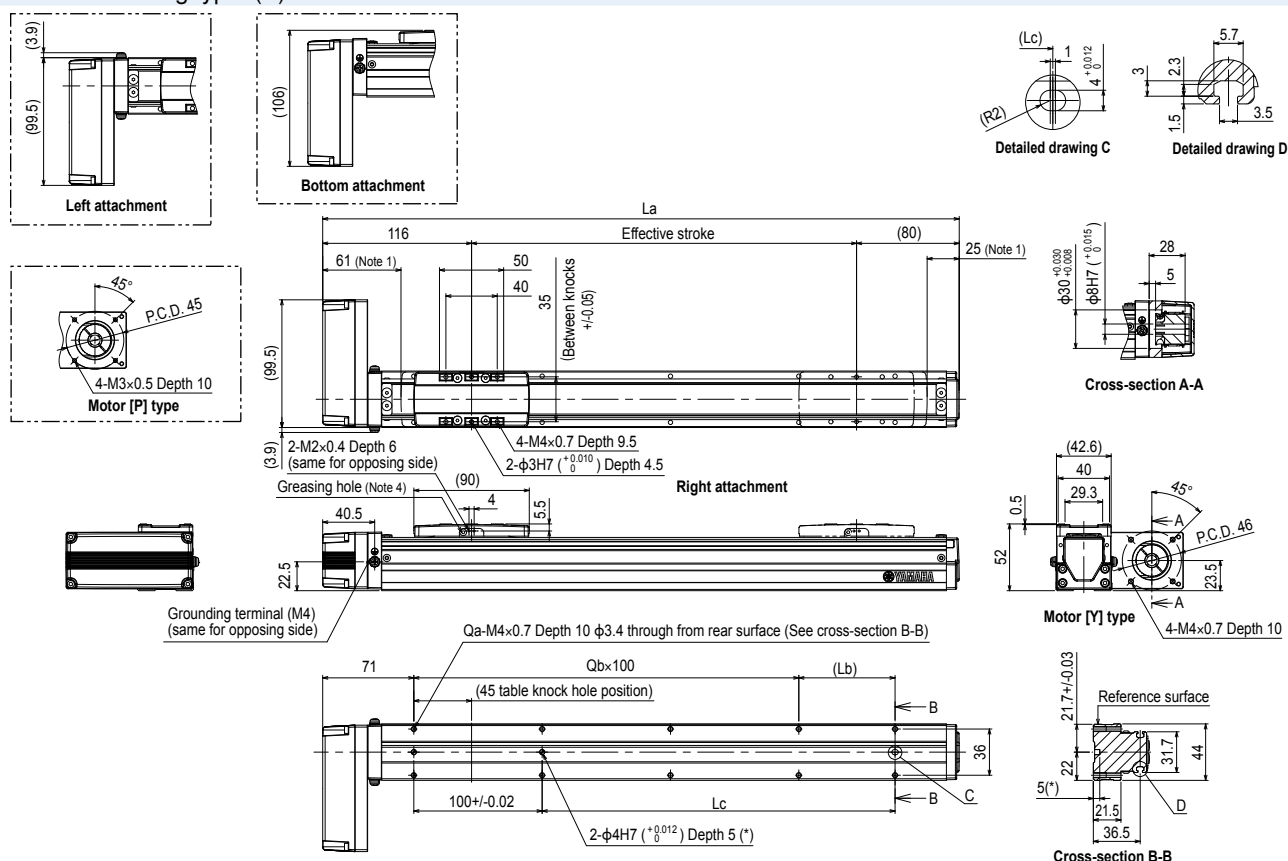
LBAS04 Straight type (S)



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	800										720	600	480	400	360	320
Lead 12	400										360	300	240	200	180	160
(mm/sec)	-										90%	75%	60%	50%	45%	40%
Speed setting																

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 $\times$ 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 $\times$ 0.7> used to install the main unit. Nozzle set for greasing (recommended) (see P.34 for detail)
Note 4. 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	800										720	600	480	400	360	320
Lead 12	400										360	300	240	200	180	160
Lead 6	-										90%	75%	60%	50%	45%	40%
Speed setting																

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.

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 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	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 (or equivalent) ^{Note 2}	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 (or equivalent) ^{Note 3}	Horizontal 12 kg 24 kg 40 kg 45 kg Vertical 3 kg 6 kg 12 kg 15 kg
Rated thrust (or equivalent) ^{Note 3}	84 N 169 N 339 N 854 N
Maximum dimensions of cross section of main unit	W 54 mm × H 60 mm
Overall length	ST + 220.5 mm
Using ambient temperature and humidity	0 to 40 °C, 35 to 80 %RH (non-condensing)

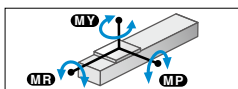
Note 1. Positioning repeatability in one direction.

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.

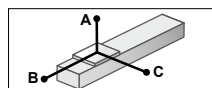
Note. See P.11 for acceleration/deceleration and inertia moment.

Static loading moment



	MY	MP	MR
(Unit: N·m)	59	63	103

Allowable overhang ^{Note}



LBAS05-20	Horizontal installation (Unit: mm)	Wall installation (Unit: mm)	Vertical installation (Unit: mm)
	A B C	A B C	A C
2kg	549 324 272	272 324 549	1kg 544 544
8kg	155 73 65	65 73 155	2kg 276 276
12kg	117 46 42	42 46 117	3kg 195 195

LBAS05-10	Horizontal installation (Unit: mm)	Wall installation (Unit: mm)	Vertical installation (Unit: mm)
	A B C	A B C	A C
5kg	769 178 213	213 178 769	2kg 443 443
15kg	314 53 64	64 53 314	4kg 218 218
24kg	216 29 36	36 29 216	6kg 142 142

LBAS05-5	Horizontal installation (Unit: mm)	Wall installation (Unit: mm)	Vertical installation (Unit: mm)
	A B C	A B C	A C
10kg	921 97 131	131 97 921	3kg 345 345
25kg	459 33 45	45 33 459	8kg 124 124
40kg	436 17 23	23 17 436	12kg 79 79

LBAS05-2	Horizontal installation (Unit: mm)	Wall installation (Unit: mm)	Vertical installation (Unit: mm)
	A B C	A B C	A C
15kg	2685 78 109	109 78 2685	5kg 254 254
30kg	1833 34 47	47 34 1833	10kg 122 122
45kg	2621 19 27	27 19 2621	15kg 0 0

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.

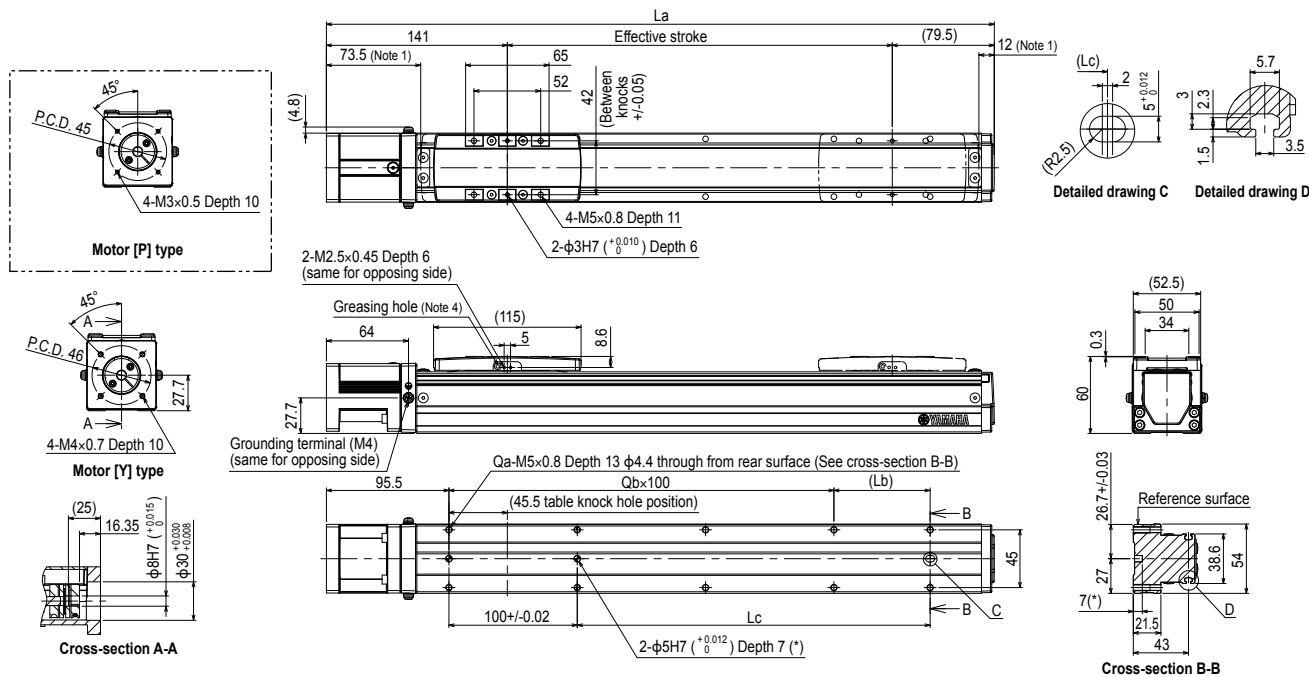
Adaptable Servo Motor

Specification	Flange size	Wattage
	□40	100 W

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

Motor specification	Manufacturer	Model
	Yaskawa Electric Corp.	SGMJV-01 SGM7J-01
	Keyence Corp.	SV-□010 SV2-□010
	Mitsubishi Electric Corp.	HF-KP13 HG-KR13 HK-KT13
	Omron Electronics	R88M-K10030 R88M-1M10030
	Sanyo Denki	R2 □A04010
Y	Tamagawa Seiki	TSM3104
	Delta Electronics	ECMA-C10401
	Fanuc Corp.	β ISO.3/5000 KSM01L □S KSM01LG
	Kingserve	1FK2102-1AG 1FL6024-2AF
	Siemens	BCH2MB013 AM3012C *
	Schneider	TLY-A130 *
P	Allen-Bradley	MSMD01 MSMF01

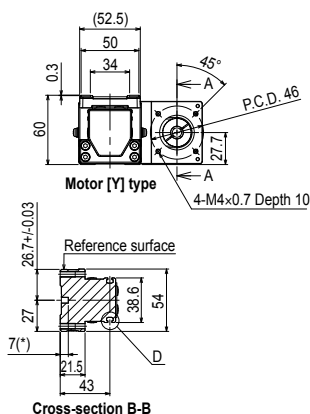
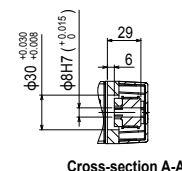
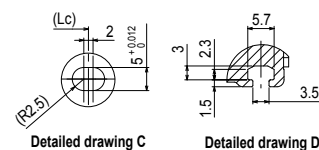
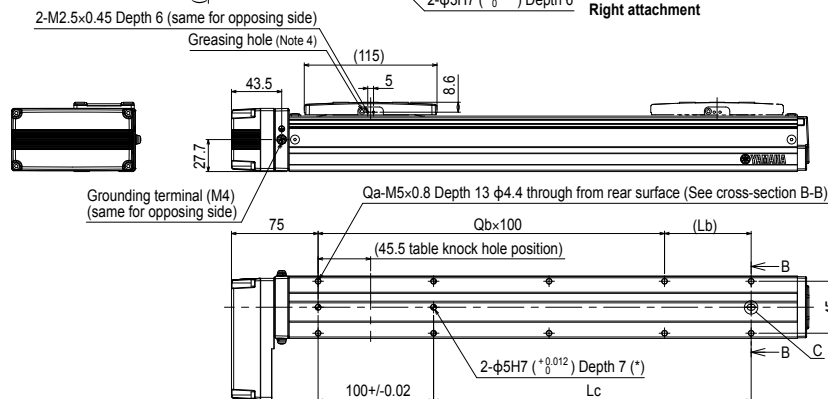
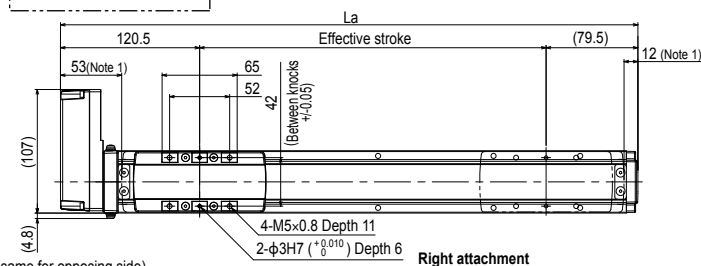
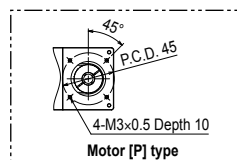
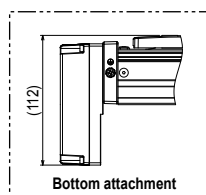
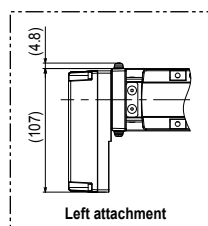
LBAS05 Straight type (S)



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
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 × 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 × 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

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					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 × 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 × 0.8> used to install the main unit.

Note 4. Nozzle set for greasing (recommended) (see P.34 for detail)

Note 4. Nozzle set for greasing (refer to the manual 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 ^{Note 3} (or equivalent)	Horizontal 40 kg 80 kg 100 kg Vertical 8 kg 20 kg 30 kg
Rated thrust ^{Note 3} (or equivalent)	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

	MY	MP	MR
(Unit: N·m)	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)

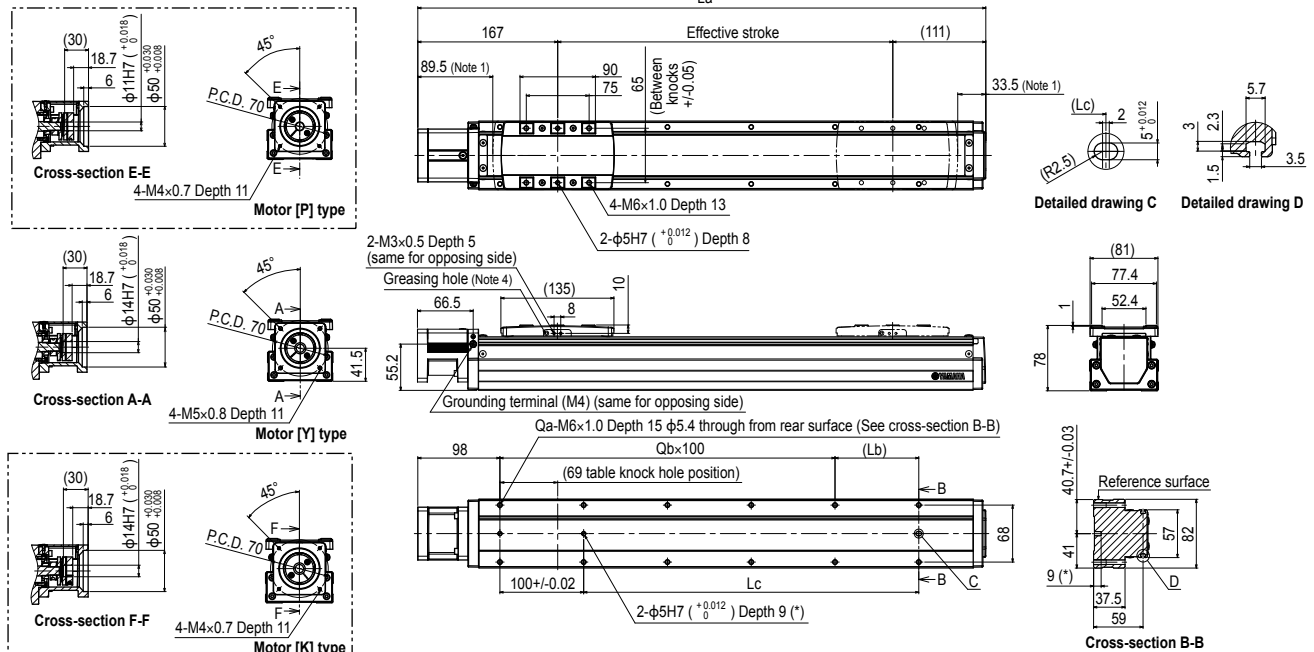
	A	C
10kg	325	325
20kg	163	163
30kg	109	109

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		☐ 60
	Wattage		200 W
Motor specification	Manufacturer	Model	
Y	Yaskawa Electric Corp.	SGMJV-02	
		SGMTJ-02	
	Keyence Corp.	SV ☐ 020	
		SV2 ☐ 020	
	Mitsubishi Electric Corp.	HF-KP23	
		HG-KR23	
		HK-KT23	
	Sanyo Denki	R2 ☐ A06020	
	Tamagawa Seiki	TSM3202	
	Delta Electronics	ECMA-C10602	
P	Siemens	1FL6032-2AF	
	Schneider	BCH2LD023	
	Omron Electronics	R88M-K20030	
		R88M-1M20030	
	Panasonic Corp.	MSMD02	
K		MSMF02	
	Kingservo	KSMA02LI	
		KSMA02LG	

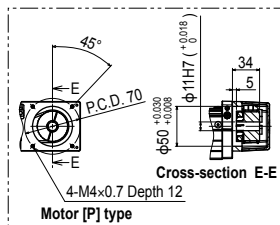
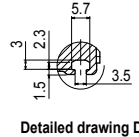
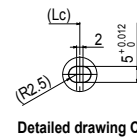
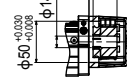
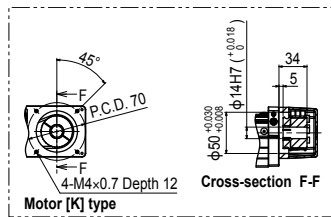
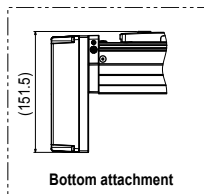
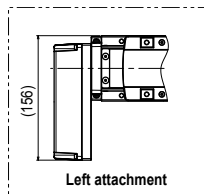
LBAS08 Straight type (S)



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	-																				

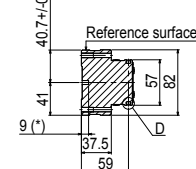
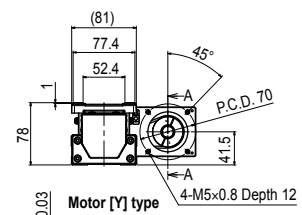
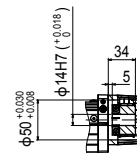
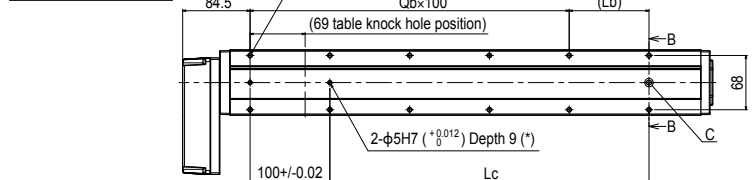
Note 1. Stop positions are determined by the mechanical stoppers at both ends.
Note 2. Please perform installation and adjustment on the special parts for motor installation by the customer. For detail, refer to the manual.
Note 3. For the installation through hole, the length under head << 45 mm or 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: KF-U-M3861-00

LBAS08 Bending type (A)



2-M3x0.5 Depth 5 (same for opposing side)

Greasing hole (Note 4)

Qa-M6x1.0 Depth 15 ϕ 5.4 through from rear surface (See cross-section B-B)

- 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

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%											

Acceleration/Deceleration and Inertia Moment (Basic model)

Acceleration/Deceleration

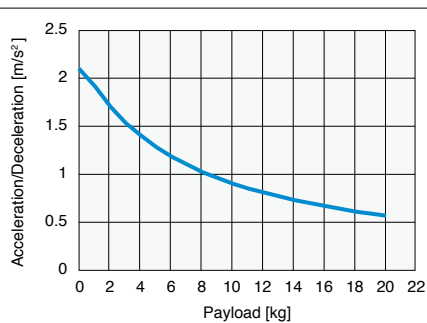
LBAS04

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			

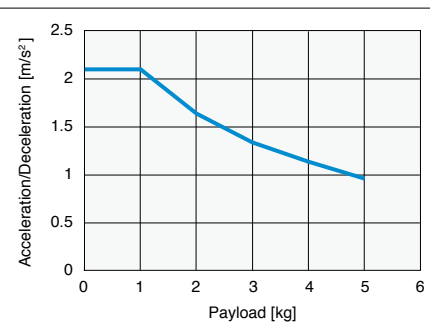
Payload – Acceleration/Deceleration Graph (Estimate)

LBAS04-6

Horizontal/
Wall hanging

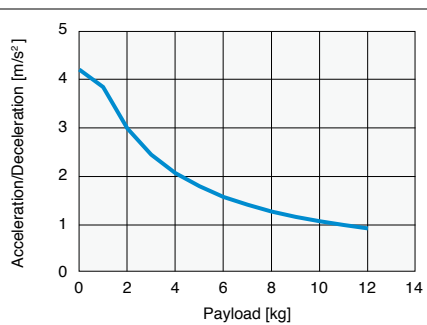


Vertical

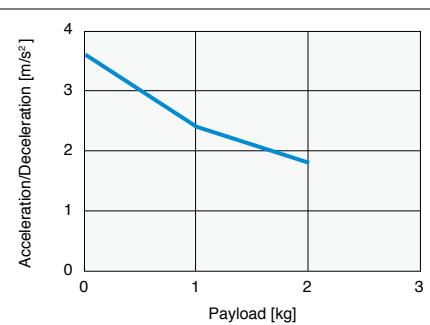


LBAS04-12

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

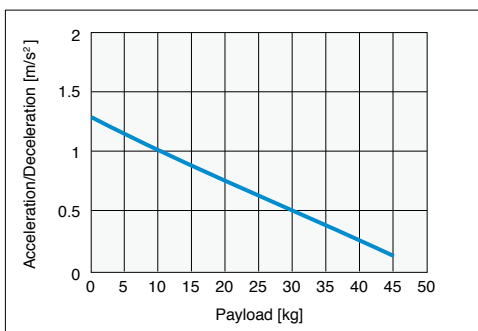
■ Acceleration/Deceleration

LBAS05

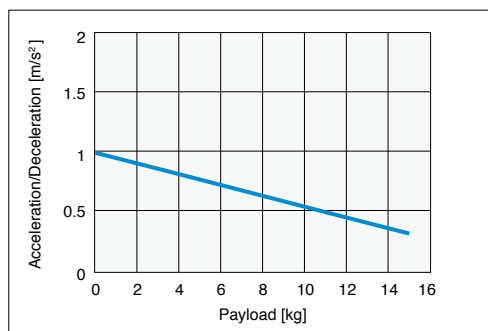
Model	LBAS05 -2 Horizontal/ Wall hanging	LBAS05 -2 Vertical	LBAS05 -5 Horizontal/ Wall hanging	LBAS05 -5 Vertical	LBAS05 -10 Horizontal/ Wall hanging	LBAS05 -10 Vertical	LBAS05 -20 Horizontal/ Wall hanging	LBAS05 -20 Vertical
Payload [kg]	Acceleration/ Deceleration [m/s ²]	Acceleration/ Deceleration [m/s ²]	Acceleration/ Deceleration [m/s ²]	Acceleration/ Deceleration [m/s ²]	Acceleration/ Deceleration [m/s ²]	Acceleration/ Deceleration [m/s ²]	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)

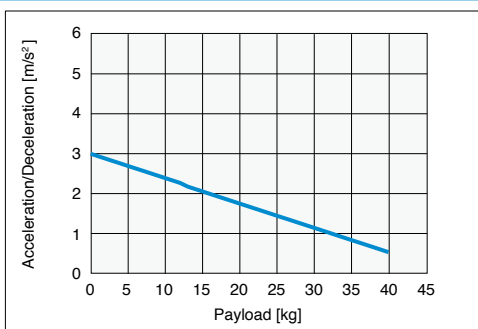
LBAS05-2

Horizontal/
Wall hanging

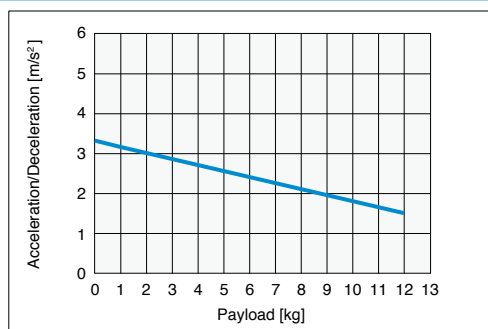
Vertical



LBAS05-5

Horizontal/
Wall hanging

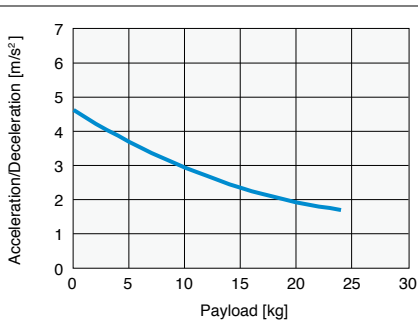
Vertical



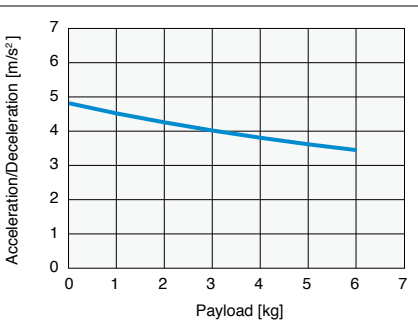
■ Payload – Acceleration/Deceleration Graph (Estimate)

LBAS05-10

Horizontal/
Wall hanging

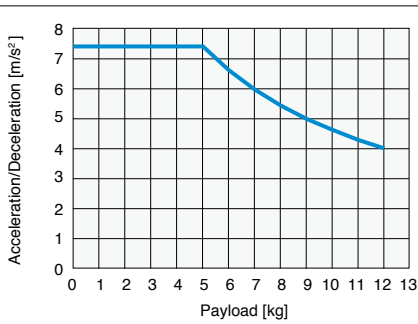


Vertical

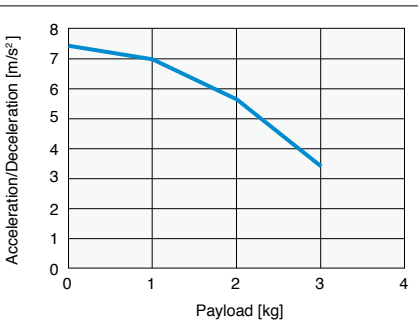


LBAS05-20

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

■ 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
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	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
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	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
LBASLBAS
Acceleration/Deceleration
Inertia MomentAdvanced model
LGXSLGXS
Acceleration/Deceleration
Inertia Moment

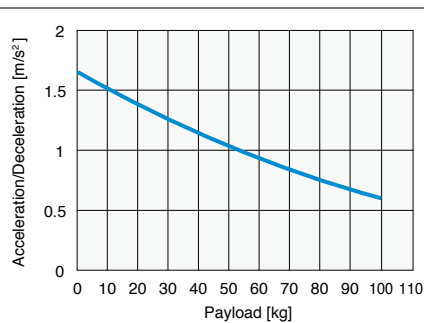
Option

Acceleration/Deceleration and Inertia Moment (Basic model)

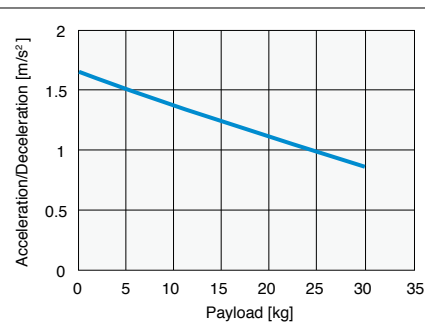
■ Payload – Acceleration/Deceleration Graph (Estimate)

LBAS08-5

Horizontal/
Wall hanging

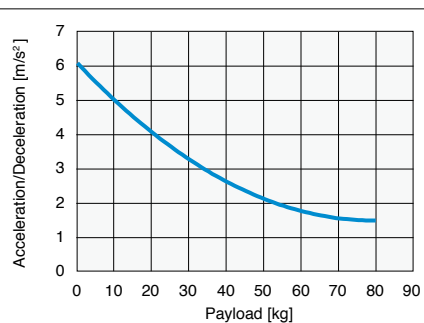


Vertical

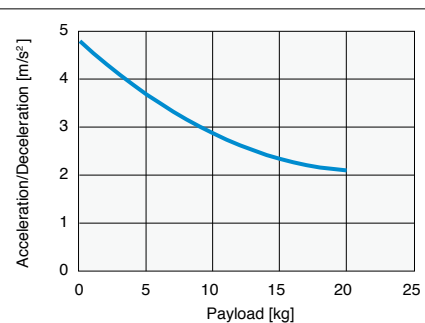


LBAS08-10

Horizontal/
Wall hanging

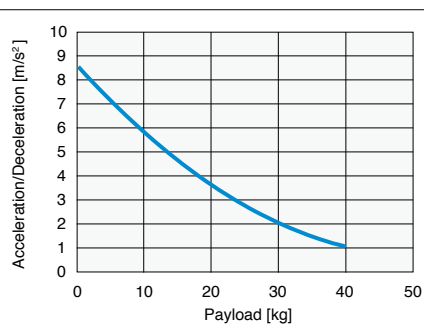


Vertical

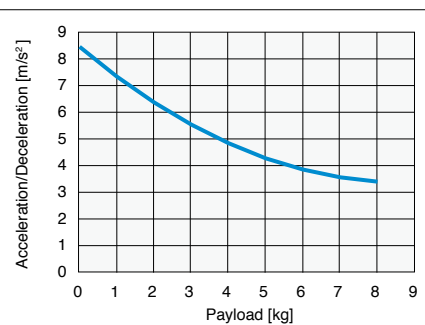


LBAS08-20

Horizontal/
Wall hanging



Vertical



■ Inertia Moment

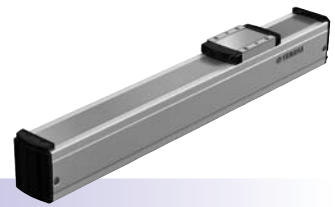
LBAS08

[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

LGXS05

Advanced model

Motor-less Single Axis Actuator



Ordering method

LGXS05

Model

Lead designation

20: 20 mm

10: 10 mm

5: 5 mm

Side cover

No entry: Standard

W: With T-groove (both sides)

L: With T-groove (left side)

R: With T-groove (right side)

Stroke

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.

Specifications

Adaptable motor	50 W
Repeatability ^{Note 1}	+/-0.005 mm
Deceleration mechanism	Ground ball screw $\phi 12$ (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 13 kg Vertical 2 kg 4 kg 8 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 N ℓ /min to 100 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 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.

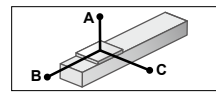
Note 3. The rated thrust and maximum transferable weight are values assuming the attached motor outputs the rated torque.

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.

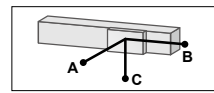
Note. See P.22 for acceleration/deceleration and inertia moment.

Allowable overhang ^{Note}

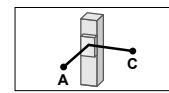


LGXS05-20

Horizontal installation (Unit: mm)	A	B	C
2kg	900	270	351
5kg	583	112	159



Wall installation (Unit: mm)	A	B	C
2kg	324	234	812
5kg	119	76	427



Vertical installation (Unit: mm)	A	C
1kg	454	454
2kg	218	218

LGXS05-10

Horizontal installation (Unit: mm)	A	B	C
2kg	2506	382	625
5kg	1368	149	246
8kg	1038	90	150

Wall installation (Unit: mm)	A	B	C
2kg	585	346	2387
5kg	195	113	1165
8kg	95	54	747

Vertical installation (Unit: mm)	A	C
1kg	732	732
2kg	351	351
4kg	160	160

LGXS05-5

Horizontal installation (Unit: mm)	A	B	C
3kg	4635	281	497
8kg	2211	101	179
13kg	1599	59	105

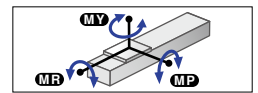
Wall installation (Unit: mm)	A	B	C
3kg	439	245	4401
8kg	117	65	1826
13kg	42	24	1006

Vertical installation (Unit: mm)	A	C
4kg	183	183
6kg	111	111
8kg	75	75

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
24	27	23

Adaptable Servo Motor

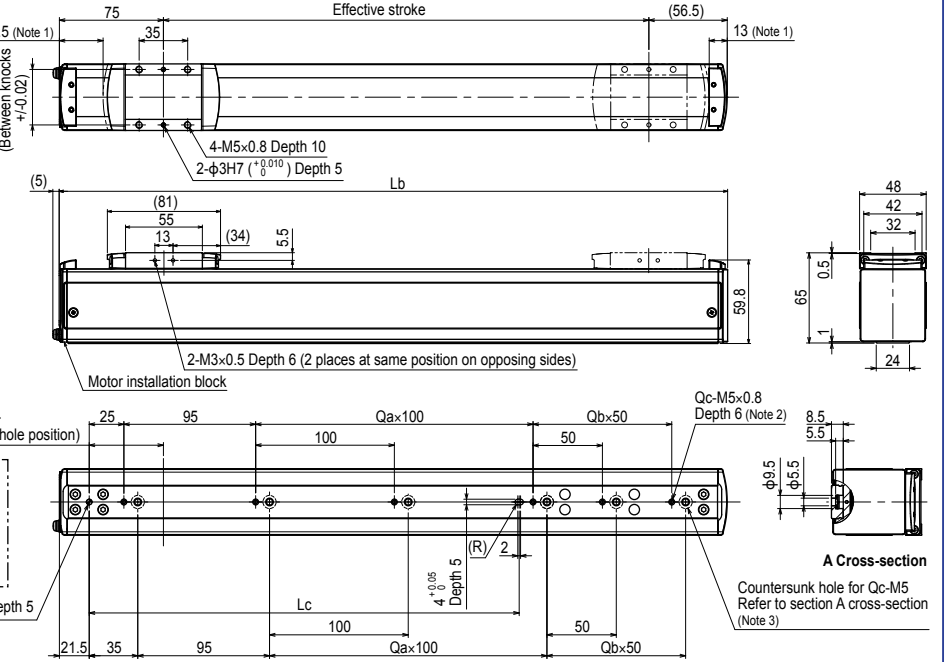
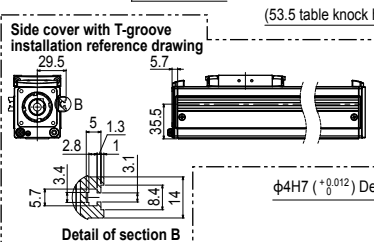
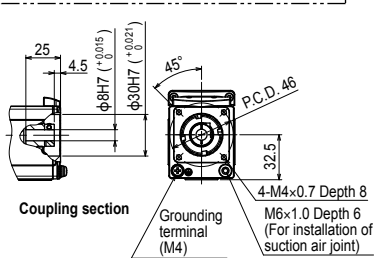
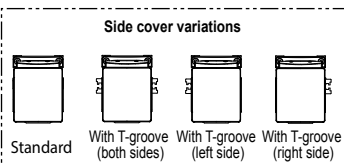
Specification	Flange size	Wattage
	☐ 40	50 W

Manufacturer	Model
Yaskawa Electric Corp.	SGMJV-A5 SGM7J-A5
Keyence Corp.	SV-□005 SV2-□005
Mitsubishi Electric Corp.	HF-KP053 ^{Note} HG-KR053 ^{Note} HK-KT053 ^{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	0	1	2	3	0	1	2	3	4	5	0	1	2	3	4
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					666					1066				
	Lead 10	666					532					466				
	Lead 5	333					266					233				
	Speed setting	-					80%					70%				

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

Advanced model



LGXS05L

[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.

Allowable overhang ^{Note}

A diagram of a horizontal beam of length 10 m. A triangular load is applied to the beam, starting at 0 kN/m at the left end and increasing linearly to 10 kN/m at the right end. A vertical reaction force is shown at point C, which is located 4 m from the left end and 6 m from the right end. The beam is divided into three segments: 4 m from the left end to point C, 6 m from point C to the right end, and a total length of 10 m.

■ Static loading moment



 (Unit: N-m)

MY	MP	MR
72	72	64

Specification	Flange size	☐ 40
	Wattage	100 W

Manufacturer	Model
Yaskawa Electric Corp.	SGMJV-01
	SGM7J-01
Keyence Corp.	SV-□010
	SV2-□010
Mitsubishi Electric Corp.	HF-KP13 ^{Note}
	HG-KR13 ^{Note}
	HK-KT13 ^{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

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.23 for acceleration/deceleration and inertia moment.

LGXS05L-10

	A	B	C
6kg	2418	388	333
12kg	1400	187	161
24kg	875	86	74

Horizontal installation (Unit: mm)			
	A	B	C
10kg	3144	254	225
20kg	1850	120	106
32kg	1560	70	62

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.

Wall installation (Unit: mm)

	A	B	C
6kg	277	316	2194
12kg	101	115	1086
24kg	12	14	276

Wall installation (Unit: mm)			
	A	B	C
10kg	162	181	2817
20kg	42	47	1282
32kg	0	0	0

LGXS05L-5

Wall installation (Unit: mm)

Vertical installation (Unit: mm)

	A	C
4kg	554	554
6kg	360	360

	A	C
5kg	501	501
10kg	235	235
12kg	190	190

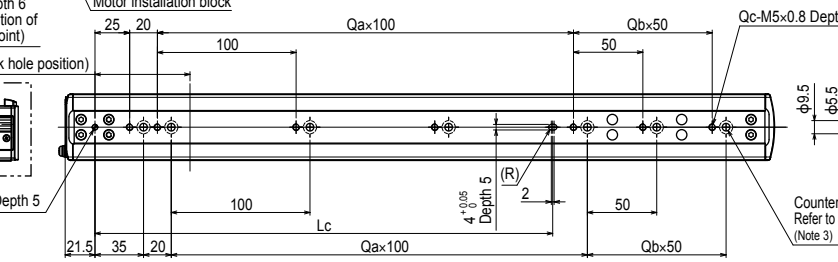
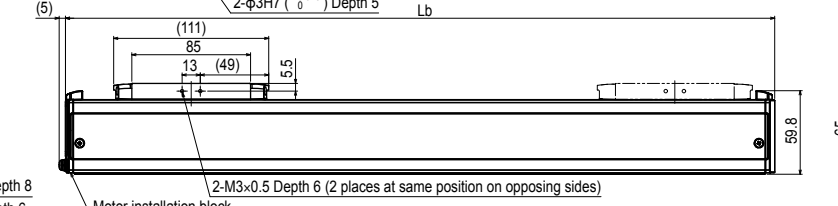
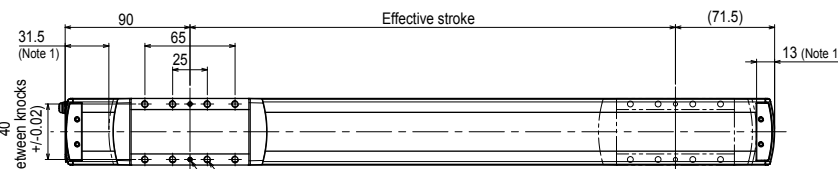
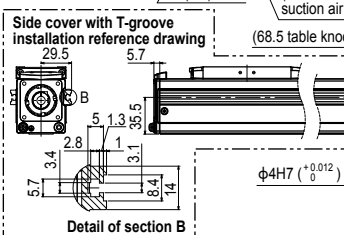
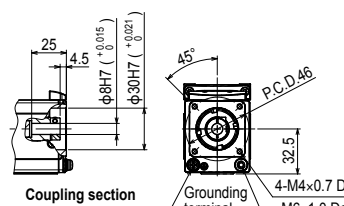
Side cover variations

Standard

With T-groove (both sides)

With T-groove (left side)

With T-groove (right side)



Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Lb	211.5	261.5	311.5	361.5	411.5	461.5	511.5	561.5	611.5	661.5	711.5	761.5	811.5	861.5	911.5	961.5
Lc	130	130	130	130	330	330	330	330	330	330	630	630	630	630	630	630
Qa	1	1	1	1	3	3	3	3	3	3	6	6	6	6	6	6
Qb	0	1	2	3	0	1	2	3	4	5	0	1	2	3	4	5
Qc	3	4	5	6	5	6	7	8	9	10	8	9	10	11	12	13
Weight (kg)	1.4	1.5	1.7	1.8	2.0	2.2	2.3	2.5	2.6	2.8	2.9	3.1	3.2	3.4	3.5	3.7
Maximum speed (mm/sec)	Lead 20												1066	933	800	666
	Lead 10												532	466	400	333
	Lead 5												266	233	200	166
	Speed setting												80%	70%	60%	50%

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.

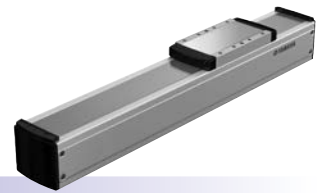
Note 3. When using the countersunk holes (section A cross section) to mount the body, remove the cap from the inner side and then fix. The length under head of the hex socket head bolts (M5 × 0.8) used must be 15 mm or less.

Note 4. Side cover with T-groove is used to install the sensor.

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 adopters 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 ^{Note 1}	+/-0.005 mm
Deceleration mechanism	Ground ball screw $\phi 15$ (C5 class)
Stroke	50 mm to 1100 mm (50 mm pitch)
Maximum speed ^{Note 2} (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 ^{Note 3} (or equivalent)	Horizontal 10 kg 25 kg 45 kg 85 kg Vertical 2 kg 4 kg 8 kg 16 kg
Rated thrust ^{Note 3} (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 ^{Note 4}	ISO CLASS 3 (ISO14644-1) or equivalent
Intake air ^{Note 5}	30 N ℓ /min to 115 N ℓ /min
Using ambient temperature and humidity	0 to 40 $^{\circ}$ 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	Wall installation	Vertical installation
	(Unit: mm)	(Unit: mm)	(Unit: mm)
	A B C	A B C	A C
2kg	3084 1512 1223	1240 1445 2981	2340 2340
6kg	1191 502 418	393 435 1063	1160 1160
10kg	957 318 282	245 251 794	
LGXS07-20	Horizontal installation	Wall installation	Vertical installation
	(Unit: mm)	(Unit: mm)	(Unit: mm)
	A B C	A B C	A C
10kg	1331 371 358	314 305 1168	3425 3425
20kg	1144 187 189	132 120 812	1705 1705
25kg	1829 169 182	117 103 1249	843 843
LGXS07-10	Horizontal installation	Wall installation	Vertical installation
	(Unit: mm)	(Unit: mm)	(Unit: mm)
	A B C	A B C	A C
15kg	2431 339 373	307 273 2203	1693 1693
30kg	1536 160 177	107 94 1161	830 830
45kg	1188 101 112	39 35 629	614 614
LGXS07-5	Horizontal installation	Wall installation	Vertical installation
	(Unit: mm)	(Unit: mm)	(Unit: mm)
	A B C	A B C	A C
30kg	2918 172 197	122 106 2461	907 907
50kg	2543 96 110	34 30 1480	591 591
85kg	2031 49 56	0 0 0	315 315

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
138	121	121

Adaptable Servo Motor

Specification	Flange size	Wattage
	☐ 40	100 W
Manufacturer	Model	
Yaskawa	SGMJV-01	
Electric Corp.	SGM7J-01	
Keyence Corp.	SV- ☐ 010	
	SV2- ☐ 010	
Mitsubishi	HF-KP13 ^{Note}	
Electric Corp.	HG-KR13 ^{Note}	
	HK-KT13 ^{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

Features

Basic model LBAS

LBAS

Acceleration/Deceleration Inertia Moment

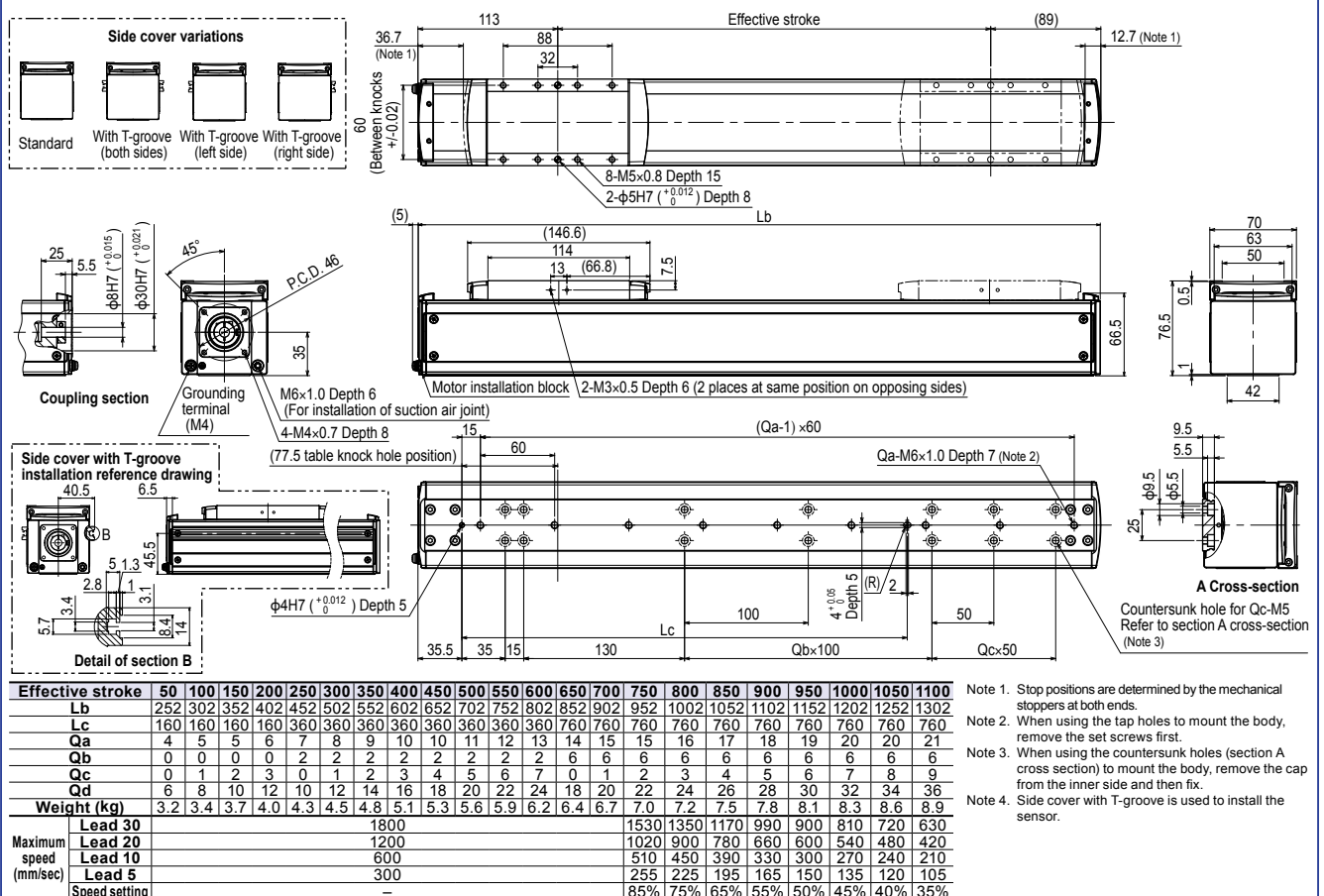
Advanced model LGXS

LGXS

Acceleration/Deceleration Inertia Moment

Option

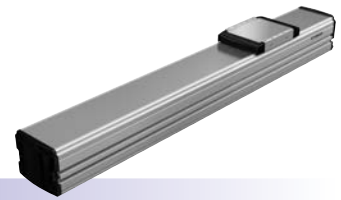
LGXS07



- 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.

LGXS10

Advanced model



Motor-less Single Axis Actuator

Ordering method

LGXS10		
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	200 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 mm/sec 1200 mm/sec 600 mm/sec 300 mm/sec
Ball screw lead	30 mm 20 mm 10 mm 5 mm
Maximum payload ^{Note 3} (or equivalent)	Horizontal 25 kg 40 kg 80 kg 100 kg Vertical 4 kg 8 kg 20 kg 30 kg
Rated thrust ^{Note 3} (or equivalent)	113 N 170 N 341 N 683 N
Maximum dimensions of cross section of main unit	W 100 mm $\times$ H 99.5 mm
Overall length	ST + 175.5 mm
Degree of cleanliness ^{Note 4}	ISO CLASS 3 (ISO14644-1) or equivalent
Intake air ^{Note 5}	30 N ℓ /min to 90 N ℓ /min
Using ambient temperature and humidity	0 to 40 $^{\circ}$ 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.

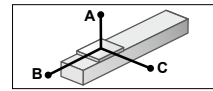
Note 3. The rated thrust and maximum transferable weight are values assuming the attached motor outputs the rated torque.

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.26 for acceleration/deceleration and inertia moment.

Allowable overhang ^{Note}

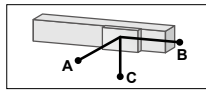


LGXS10-30			
Horizontal installation (Unit: mm)	A	B	C
10kg	880	538	292
20kg	607	256	146
25kg	608	211	124

LGXS10-20			
Horizontal installation (Unit: mm)	A	B	C
15kg	1272	452	282
25kg	756	254	158
40kg	468	142	88

LGXS10-10			
Horizontal installation (Unit: mm)	A	B	C
30kg	1801	299	204
50kg	1361	163	111
80kg	1273	87	59

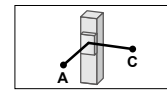
LGXS10-5			
Horizontal installation (Unit: mm)	A	B	C
30kg	5603	321	225
50kg	3691	177	124
80kg	2614	95	67
100kg	2218	68	48



Wall installation (Unit: mm)			
A	B	C	
10kg	272	474	805
20kg	118	192	480
25kg	93	147	454

Wall installation (Unit: mm)			
A	B	C	
15kg	253	388	1162
25kg	124	190	631
40kg	51	78	313

Wall installation (Unit: mm)			
A	B	C	
30kg	163	235	1630
50kg	69	99	1064
80kg	16	23	559



Vertical installation (Unit: mm)			
A	B	C	
1kg	4142	4142	
4kg	987	987	

Vertical installation (Unit: mm)			
A	B	C	
3kg	2067	2067	
6kg	1015	1015	
8kg	752	752	

Vertical installation (Unit: mm)			
A	B	C	
5kg	1932	1932	
10kg	934	934	
20kg	436	436	

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
274	274	241

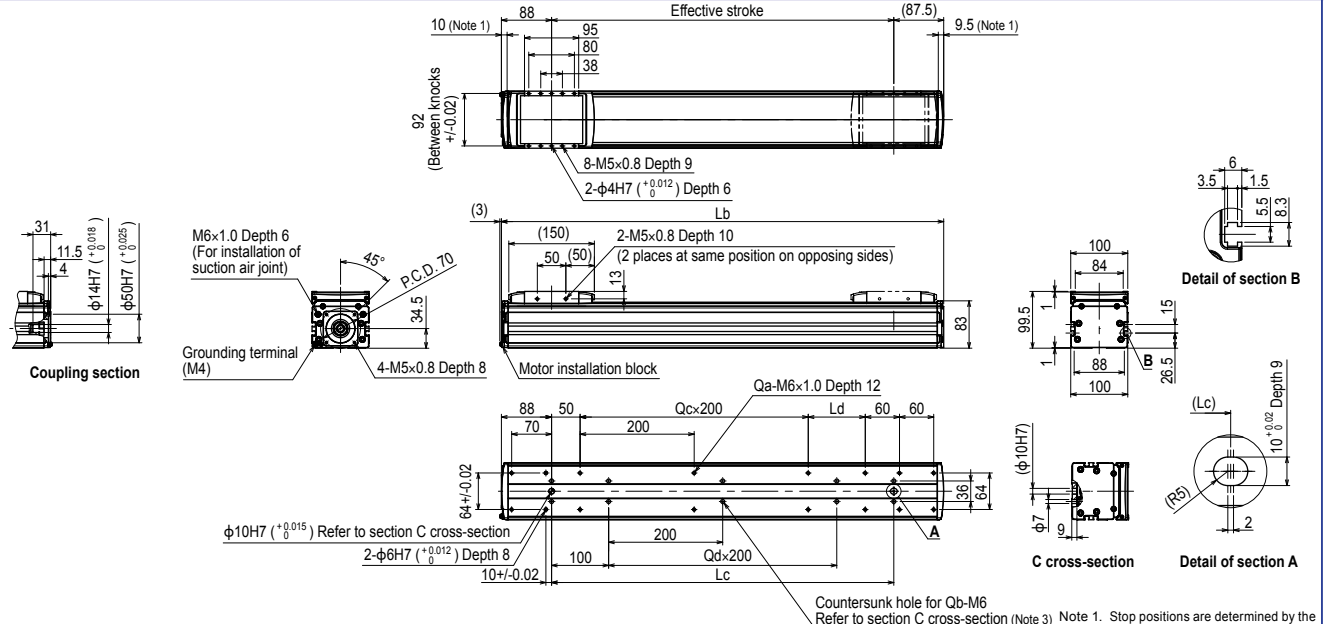
Adaptable Servo Motor

Specification	Flange size	60
	Wattage	200 W
Manufacturer	Model	
Yaskawa Electric Corp.	SGMJV-02	
	SGM7J-02	
Keyence Corp.	SV-020	
	SV2-020	
Mitsubishi Electric Corp.	HF-KP23	
	HG-KR23 ^{Note}	
	HK-KT23 ^{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

LGXS10



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 <M6 $\times$ 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 head of the hex socket head bolts <M6 $\times$ 1.0> used to mount the body with the mounting tab 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	275.5	325.5	375.5	425.5	475.5	525.5	575.5	625.5	675.5	725.5	775.5	825.5	875.5	925.5	975.5	1025.5	1075.5	1125.5	1175.5	1225.5	1275.5	1325.5	1375.5	1425.5
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	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150
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)	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1
Maximum speed (mm/sec)	Lead 30	1800													1530	1350	1170	990	900	810	720	630	540	450
	Lead 20	1200													1020	900	780	660	600	540	480	420	360	300
	Lead 10	600													510	450	390	330	300	270	240	210	180	150
	Lead 5	300													255	225	195	165	150	135	120	105	90	75
Speed setting															85%	75%	65%	55%	50%	45%	40%	35%	30%	25%

LGXS16

Advanced model



Motor-less Single Axis Actuator

Ordering method

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

[Caution]

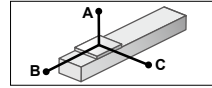
This system is provided as mechanical actuator unit and not including any adaptors or electric components. Motor, driver and other components required for installation are user's responsibility. Refer to user's manual for installation details. Refer to your motor manual for tuning or adjustment. Vibration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

Specifications

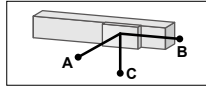
Adaptable motor	750 W		
Repeatability ^{Note 1}	±0.005 mm		
Deceleration mechanism	Ground ball screw $\phi 20$ (C5 class)		
Stroke	100 mm to 1450 mm (50 mm pitch)		
Maximum speed ^{Note 2} (or equivalent)	2400 mm/sec	1200 mm/sec	600 mm/sec
Ball screw lead	40 mm	20 mm	10 mm
Maximum payload ^{Note 3} (or equivalent)	Horizontal 45 kg	95 kg	130 kg
	Vertical 12 kg	28 kg	55 kg
Rated thrust ^{Note 3} (or equivalent)	320 N	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 ^{Note 4}	ISO CLASS 3 (ISO14644-1) or equivalent		
Intake air ^{Note 5}	30 N ℓ /min to 90 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 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.

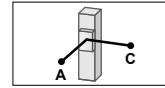
Allowable overhang ^{Note}



LGXS16-40 Horizontal installation (Unit: mm)			
	A	B	C
15kg	2876	1866	1253
30kg	3071	1062	869
45kg	3920	810	731



Wall installation (Unit: mm)			
	A	B	C
15kg	1273	1801	2798
30kg	884	999	2925
45kg	728	747	3677



Vertical installation (Unit: mm)			
	A	B	C
3kg	6604	6604	
6kg	3834	3834	
12kg	3466	3466	

Static loading moment

(Unit: N·m)		
MY	MP	MR
706	706	620

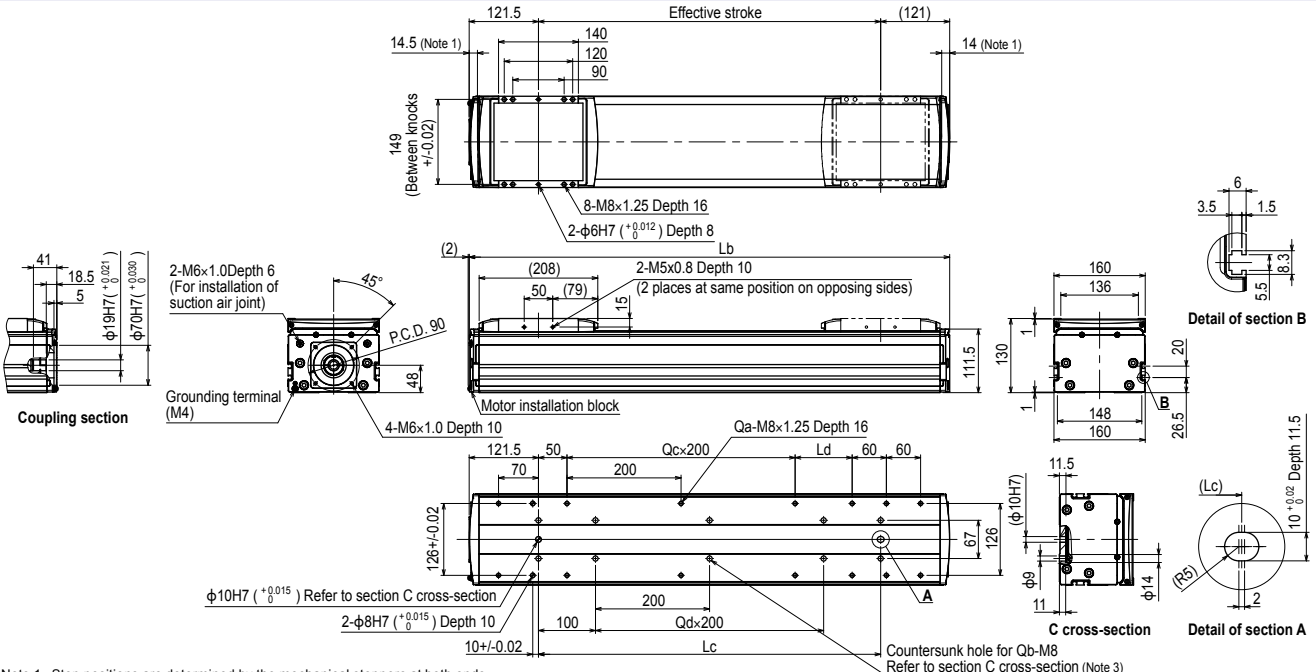
Adaptable Servo Motor

Specification	Flange size	Wattage	750 W
Manufacturer	Model		
Yaskawa Electric Corp.	SGMJV-08		
	SGMJ-08		
Keyence Corp.	SV-□075		
	SV2-□075		
Mitsubishi Electric Corp.	HF-KP73		
	HG-KR73 ^{Note}		
	HK-KT7M3 ^{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

LGXS16



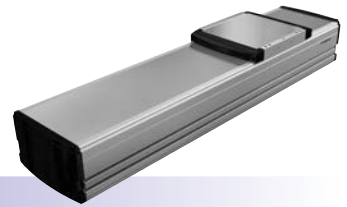
- Note 1. Stop positions are determined by the mechanical stoppers at both ends.
 Note 2. The length under head of the hex socket head bolts <M8 × 1.25> used to mount the body with the mounting countersunk holes (section C cross-section) must be <<25 mm or more>>. The recommended length under head of 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	30	100	150	200	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	10	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22																										
Qb	4	6	6	6	6	6	8	8	8	10	10	10	10	12	12	12	12	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	3	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	3	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		
	Lead 10															600						540			480			420			360			330			300			270			240			210			180			150		
	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	100 to 1450
	20: 20 mm	(50 mm pitch)
	10: 10 mm	

[Caution]

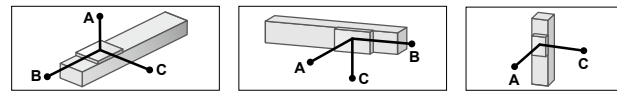
This system is provided as mechanical actuator unit and not including any adapters or electric components. Motor, driver and other components required for installation are user's responsibility. Refer to user's manual for installation details. Refer to your motor manual for tuning or adjustment. Vibration 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	160 kg
Rated thrust ^{Note 3} (or equivalent)	Vertical 15 kg	35 kg	65 kg
	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}



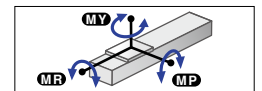
LGXS20-40			
Horizontal installation (Unit: mm)			
	A	B	C
20kg	5460	2838	2124
40kg	7494	1781	1626
65kg	10253	1282	1270

LGXS20-20			
Horizontal installation (Unit: mm)			
	A	B	C
50kg	5451	1497	1381
80kg	4429	913	856
100kg	4588	755	726
130kg	4351	597	585

LGXS20-10			
Horizontal installation (Unit: mm)			
	A	B	C
40kg	22572	2615	2722
80kg	16750	1278	1336
120kg	14083	833	871
160kg	12387	610	639

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

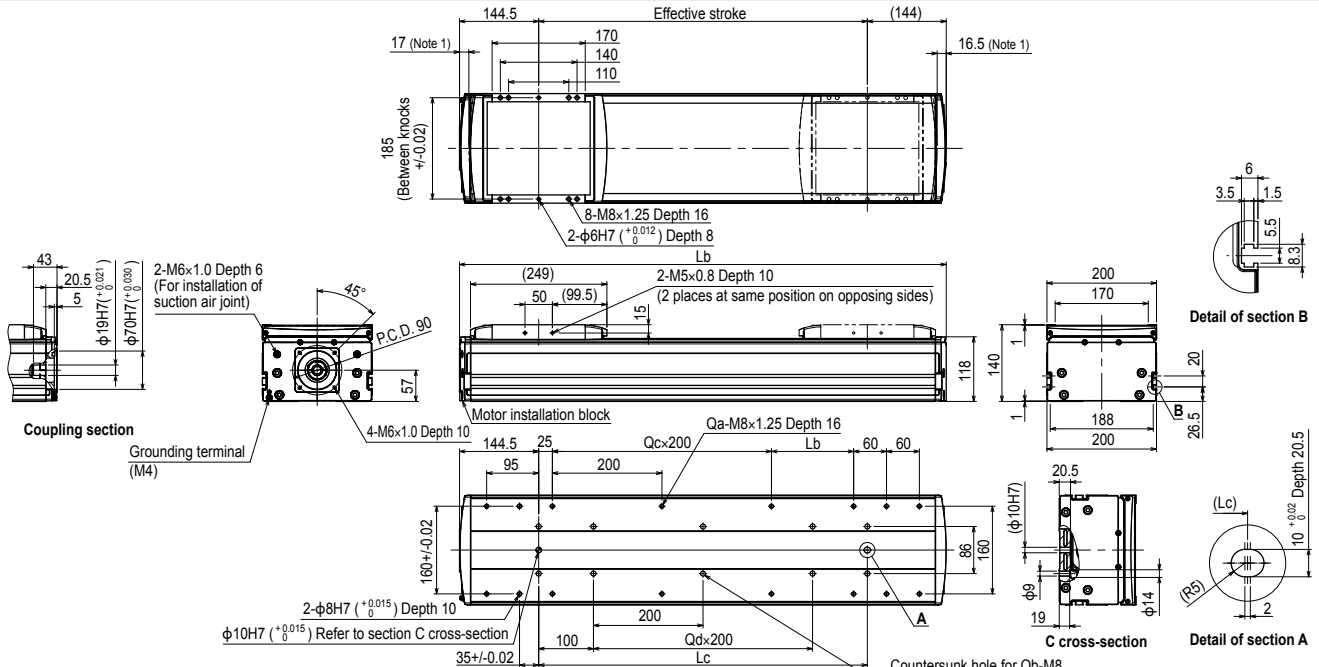
Adaptable Servo Motor

Specification	Flange size	Wattage
	□80	750 W
Manufacturer		Model
Yaskawa Electric Corp.		SGMJV-08
		SGM7J-08
		SV-□075
Keyence Corp.		SV2-□075
		HF-KP73
Mitsubishi Electric Corp.		HG-KR73 ^{Note}
		HK-KT7M3 ^{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	20	20	20	20
Qb	4	6	6	6	6	6	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	2	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)	2400															2160										960		
Lead 40																1920										840		
Lead 20																1080										480		
Lead 10																540										240		
Speed setting																90%										40%		

■ Acceleration/Deceleration

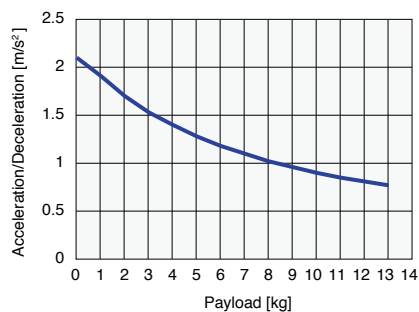
LGXS05

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					

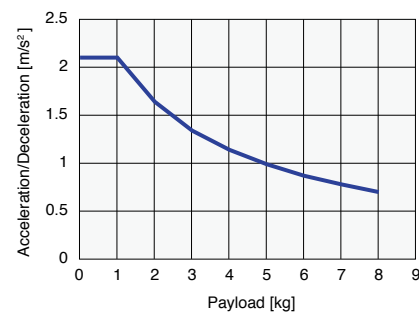
■ Payload – Acceleration/Deceleration Graph (Estimate)

LGXS05-5

Horizontal/
Wall hanging

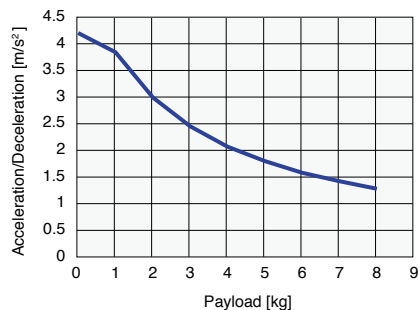


Vertical

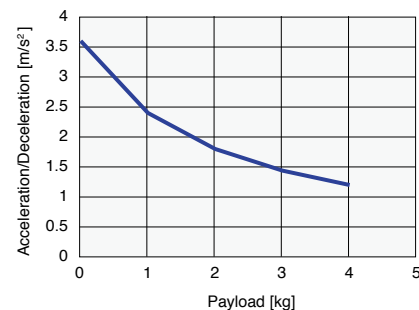


LGXS05-10

Horizontal/
Wall hanging

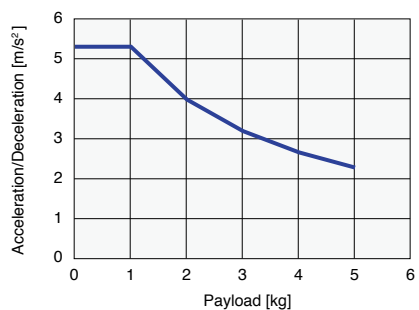


Vertical

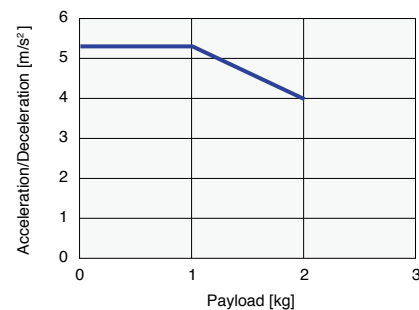


LGXS05-20

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 Horizontal/ Wall hanging	LGXS05L -5 Vertical	LGXS05L -10 Horizontal/ Wall hanging	LGXS05L -10 Vertical	LGXS05L -20 Horizontal/ Wall hanging	LGXS05L -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	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 Horizontal/ Wall hanging	LGXS05L -5 Vertical	LGXS05L -10 Horizontal/ Wall hanging	LGXS05L -10 Vertical	LGXS05L -20 Horizontal/ Wall hanging	LGXS05L -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]
18	1.94		1.96			
19	1.88		1.89			
20	1.82		1.83			
21	1.76		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					

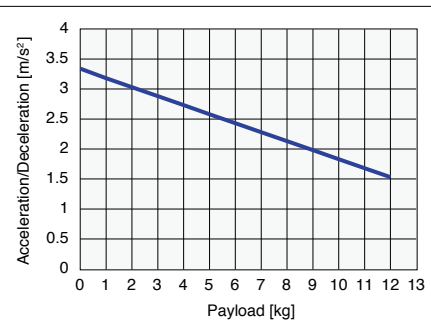
Payload – Acceleration/Deceleration Graph (Estimate)

LGXS05L-5

Horizontal/
Wall hanging

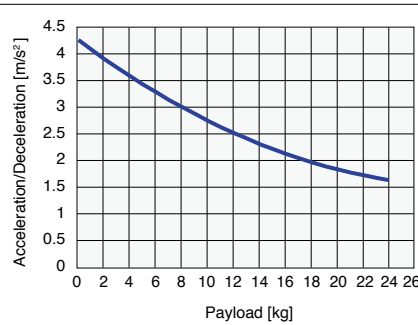


Vertical

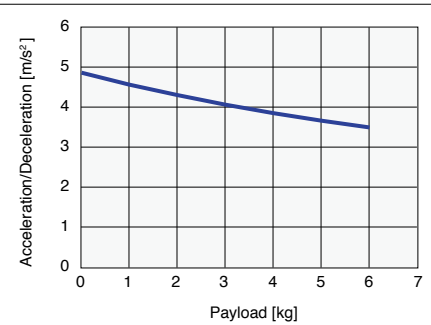


LGXS05L-10

Horizontal/
Wall hanging

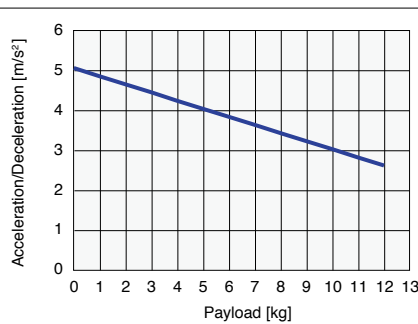


Vertical

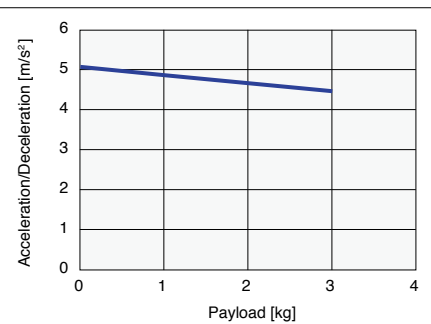


LGXS05L-20

Horizontal/
Wall hanging



Vertical



Inertia Moment

LGXS05L

	Effective stroke [mm]															
Model	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

■ Acceleration/Deceleration

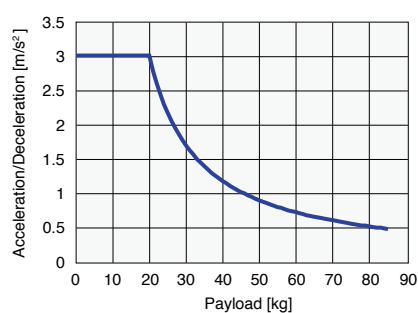
LGXS07

Model	LGXS07 -5 Horizontal/ Wall hanging	LGXS07 -5 Vertical	LGXS07 -10 Horizontal/ Wall hanging	LGXS07 -10 Vertical	LGXS07 -20 Horizontal/ Wall hanging	LGXS07 -20 Vertical	LGXS07 -30 Horizontal/ Wall hanging	LGXS07 -30 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	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		3.43		3.79			
12	3.04		3.3		3.55			
13	3.04		3.18		3.32			
14	3.04		3.07		3.09			
15	3.04		2.96		2.88			
16	3.04		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					

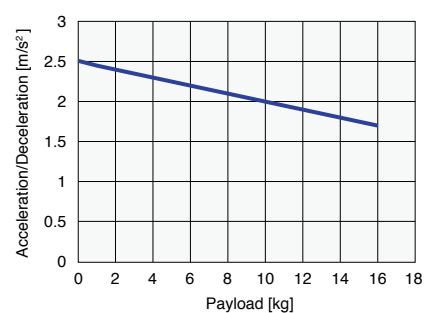
Model	LGXS07 -5 Horizontal/ Wall hanging	LGXS07 -5 Vertical	LGXS07 -10 Horizontal/ Wall hanging	LGXS07 -10 Vertical	LGXS07 -20 Horizontal/ Wall hanging	LGXS07 -20 Vertical	LGXS07 -30 Horizontal/ Wall hanging	LGXS07 -30 Vertical
Payload [kg]	Acceleration/ Deceleration [m/s ²]	Acceleration/ Deceleration [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]
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)

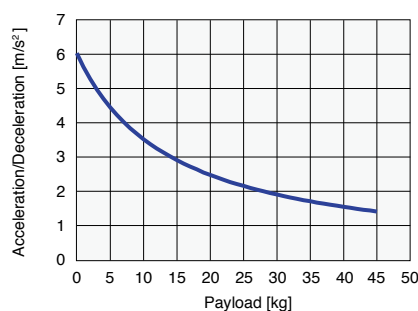
LGXS07-5

Horizontal/
Wall hanging

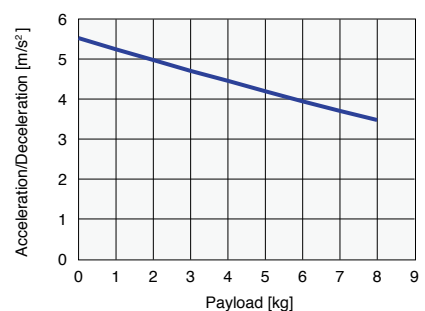
Vertical



LGXS07-10

Horizontal/
Wall hanging

Vertical



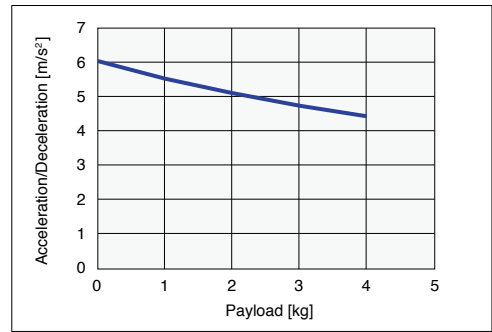
■ Payload – Acceleration/Deceleration Graph (Estimate)

LGXS07-20

Horizontal/
Wall hanging

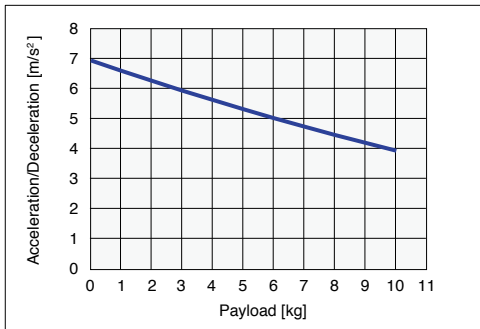


Vertical

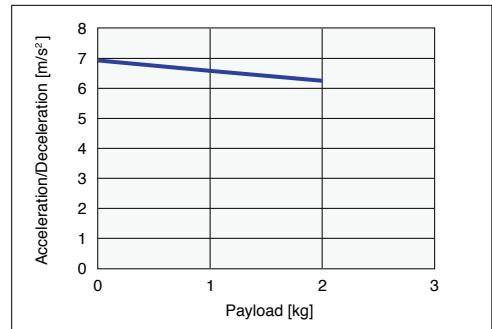


LGXS07-30

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
Model																				
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
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
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
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

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

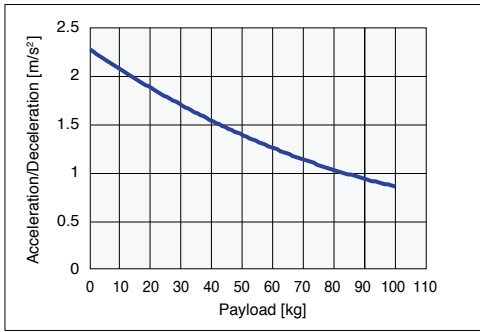
Model	LGXS10 -5 Horizontal/ Wall hanging	LGXS10 -5 Vertical	LGXS10 -10 Horizontal/ Wall hanging	LGXS10 -10 Vertical	LGXS10 -20 Horizontal/ Wall hanging	LGXS10 -20 Vertical	LGXS10 -30 Horizontal/ Wall hanging	LGXS10 -30 Vertical
Payload [kg]	Acceleration/ Deceleration [m/s ²]	Acceleration/ Deceleration [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	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		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
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]
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							

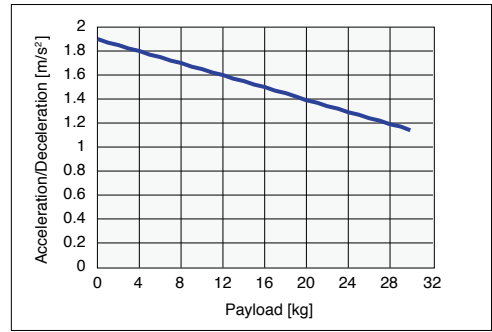
■ Payload – Acceleration/Deceleration Graph (Estimate)

LGXS10-5

Horizontal/
Wall hanging

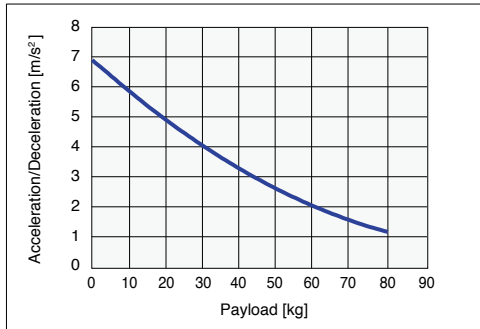


Vertical

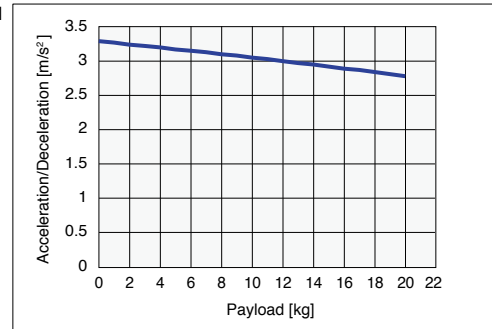


LGXS10-10

Horizontal/
Wall hanging

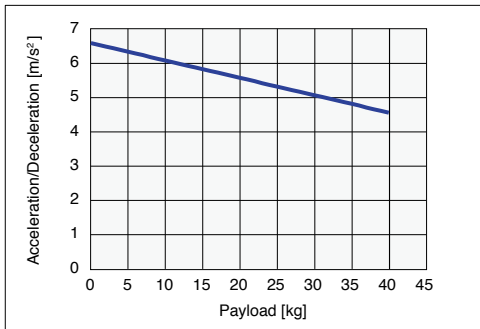


Vertical

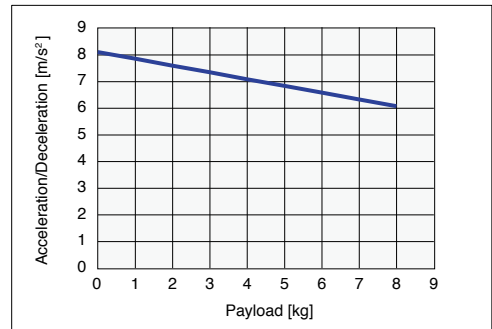


LGXS10-20

Horizontal/
Wall hanging



Vertical

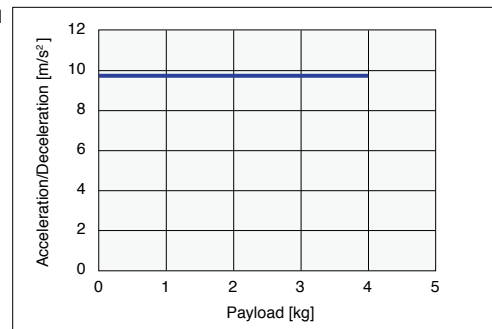


LGXS10-30

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
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
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
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
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

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

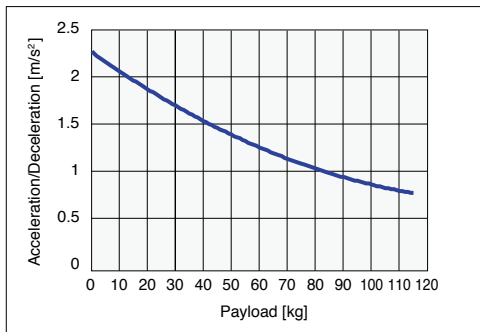
Model	LGXS12 -5 Horizontal/ Wall hanging	LGXS12 -5 Vertical	LGXS12 -10 Horizontal/ Wall hanging	LGXS12 -10 Vertical	LGXS12 -20 Horizontal/ Wall hanging	LGXS12 -20 Vertical	LGXS12 -30 Horizontal/ Wall hanging	LGXS12 -30 Vertical
Payload [kg]	Acceleration/ Deceleration [m/s ²]	Acceleration/ Deceleration [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	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		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
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]
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							

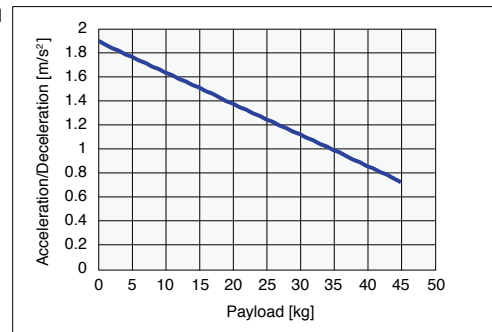
■ Payload – Acceleration/Deceleration Graph (Estimate)

LGXS12-5

Horizontal/
Wall hanging

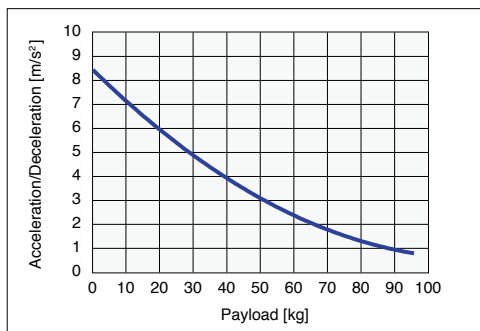


Vertical

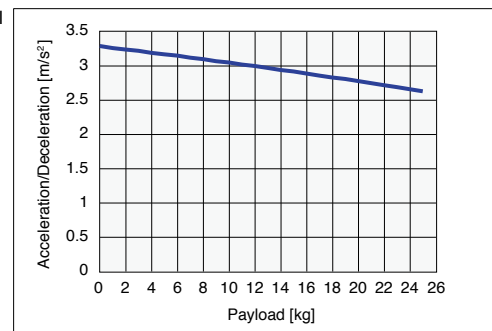


LGXS12-10

Horizontal/
Wall hanging

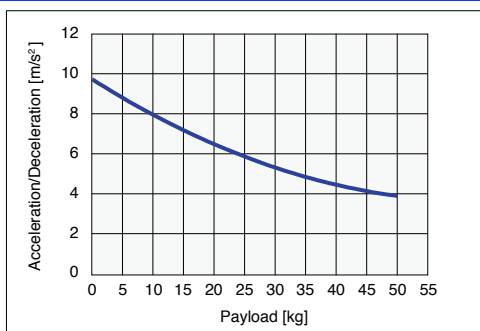


Vertical

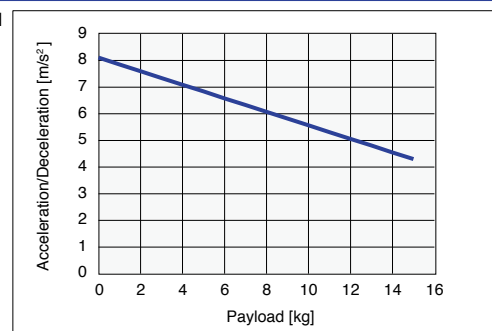


LGXS12-20

Horizontal/
Wall hanging

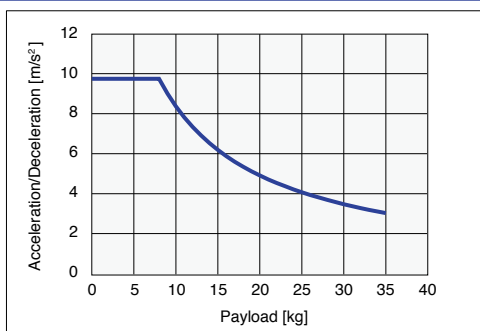


Vertical

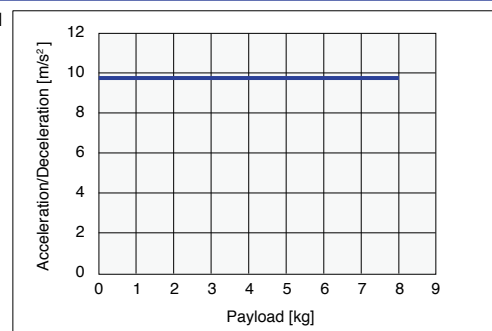


LGXS12-30

Horizontal/
Wall hanging



Vertical



■ Inertia Moment

LGXS12

[kg·m ² ×10 ⁻⁴]	Effective stroke [mm]																								
Model	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

Acceleration/Deceleration and Inertia Moment (Advanced model)

■ Acceleration/Deceleration

LGXS16

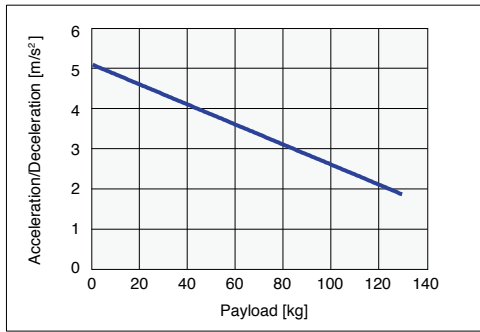
Model	LGXS16 -10 Horizontal/ Wall hanging	LGXS16 -10 Vertical	LGXS16 -20 Horizontal/ Wall hanging	LGXS16 -20 Vertical	LGXS16 -40 Horizontal/ Wall hanging	LGXS16 -40 Vertical
Payload [kg]	Acceleration/ Deceleration [m/s ²]	Acceleration/ Deceleration [m/s ²]	Acceleration/ Deceleration [m/s ²]	Acceleration/ Deceleration [m/s ²]	Acceleration/ Deceleration [m/s ²]	Acceleration/ Deceleration [m/s ²]
0	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
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	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					

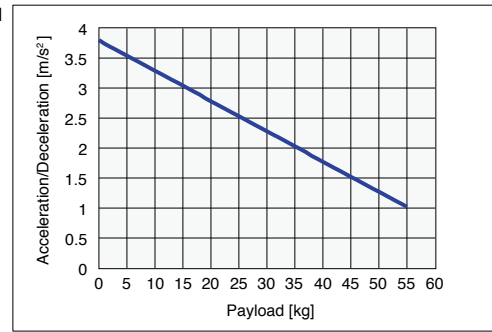
■ Payload – Acceleration/Deceleration Graph (Estimate)

LGXS16-10

Horizontal/
Wall hanging

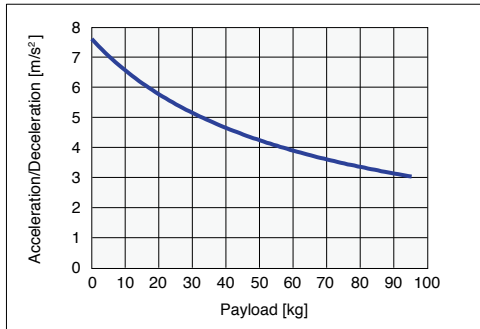


Vertical

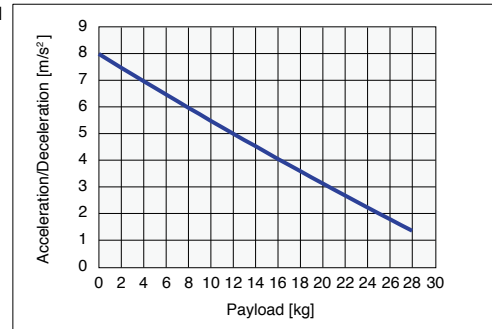


LGXS16-20

Horizontal/
Wall hanging

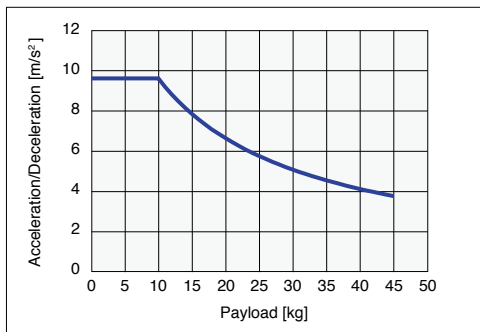


Vertical



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
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
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
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

Acceleration/Deceleration and Inertia Moment (Advanced model)

■ Acceleration/Deceleration

LGXS20

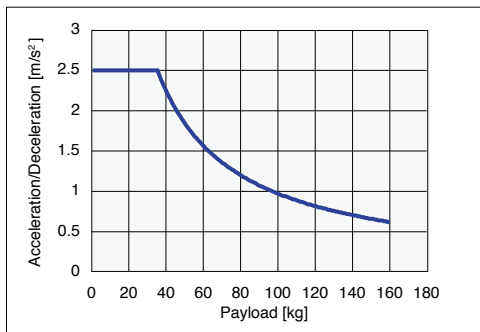
Model	LGXS20 -10 Horizontal/ Wall hanging	LGXS20 -10 Vertical	LGXS20 -20 Horizontal/ Wall hanging	LGXS20 -20 Vertical	LGXS20 -40 Horizontal/ Wall hanging	LGXS20 -40 Vertical
Payload [kg]	Acceleration/ Deceleration [m/s ²]	Acceleration/ Deceleration [m/s ²]	Acceleration/ Deceleration [m/s ²]	Acceleration/ 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 Horizontal/ Wall hanging	LGXS20 -10 Vertical	LGXS20 -20 Horizontal/ Wall hanging	LGXS20 -20 Vertical	LGXS20 -40 Horizontal/ Wall hanging	LGXS20 -40 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					

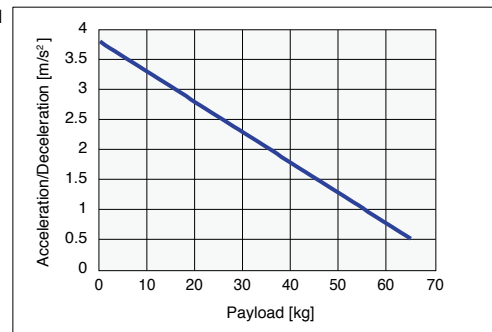
■ Payload – Acceleration/Deceleration Graph (Estimate)

LGXS20-10

Horizontal/
Wall hanging

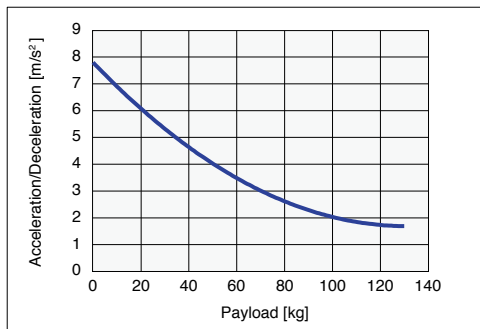


Vertical

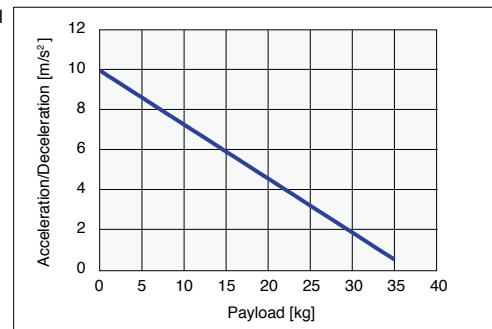


LGXS20-20

Horizontal/
Wall hanging

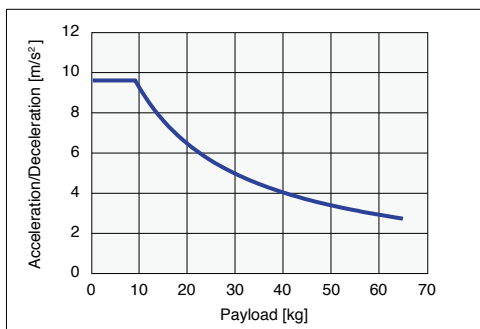


Vertical

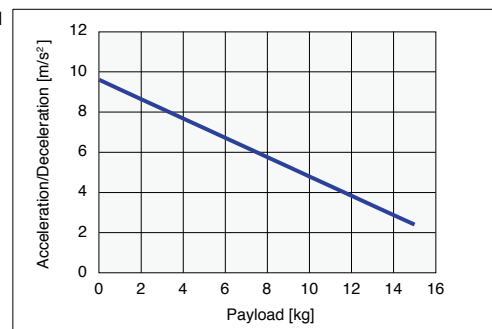


LGXS20-40

Horizontal/
Wall hanging



Vertical



■ Inertia Moment

LGXS20

[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	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

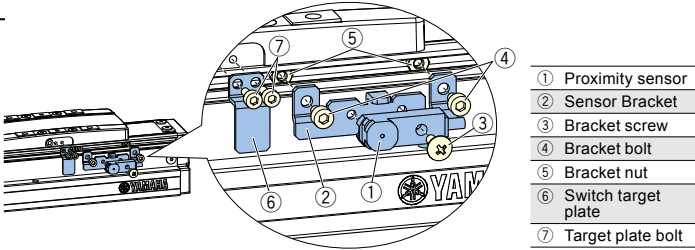
■ Sensor Spec

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

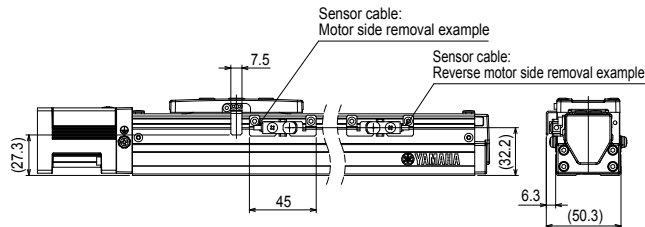
[Caution]

- 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. Sensor cable outlet can be either motor end or no motor end of actuator

LBAS04



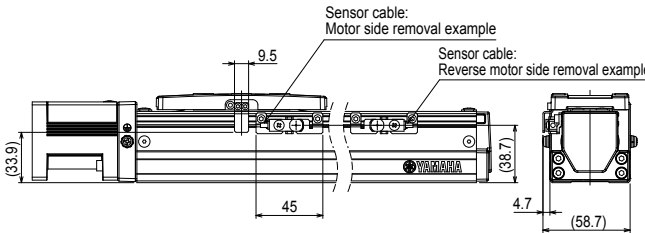
Proximity sensor option

Class	Name	Number		Qty	Remarks
		ON when approaching (NO, Normally Open)	ON when leaving (NC, Normally Closed)		
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
		ON when approaching (NO, Normally Open)	ON when leaving (NC, Normally Closed)		
Assy	Target plate option	KFT-M2206-00			
Component	⑥ Switch target plate	KFT-M22G5-00		1	
	⑦ Target plate bolt	90112-02J005		2	M2 × 0.4 Length 5

LBAS05



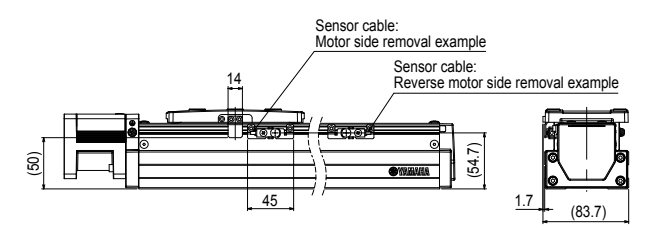
Proximity sensor option

Class	Name	Number		Qty	Remarks
		ON when approaching (NO, Normally Open)	ON when leaving (NC, Normally Closed)		
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
		ON when approaching (NO, Normally Open)	ON when leaving (NC, Normally Closed)		
Assy	Target plate option	KFU-M2206-00			
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 (NO, Normally Open)	ON when leaving (NC, Normally Closed)		
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
		ON when approaching (NO, Normally Open)	ON when leaving (NC, Normally Closed)		
Assy	Target plate option	KFV-M2206-00			
Component	⑥ Switch target plate	KFV-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.

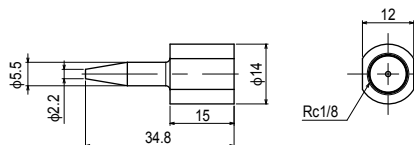
* It can be used by attaching to a commercially available general grease gun.

● Lubrication Kit

Grease nozzle and nozzle tip

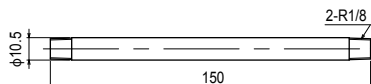
Part number KFU-M3861-00

● Nozzle tip



Part number KFU-M2941-00

● Grease nozzle



Part number KFU-M2942-00

Robonity series

External Sensor Installation Guide (Left side shown)

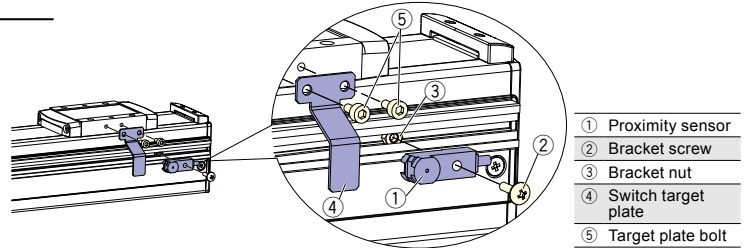
■ Sensor Spec

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

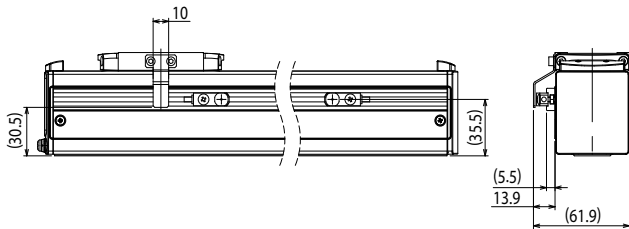
[Caution]

- 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



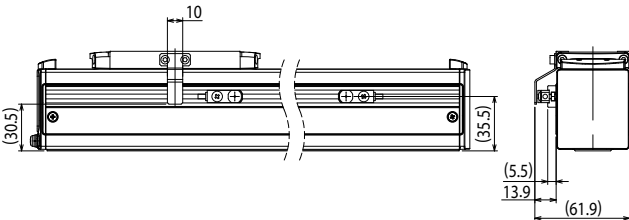
Proximity sensor option

Class	Name	Number		Qty	Remarks
		ON when approaching (NO, Normally Open)	ON when leaving (NC, Normally Closed)		
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
Assy	Target plate option	KES-M2206-00		
Component	⑥ Switch target plate	KES-M22G5-00	1	
	⑦ Target plate bolt	91312-03006	2	M3 × 0.5 Length 6

LGXS05L



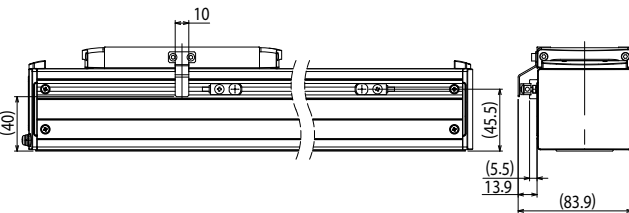
Proximity sensor option

Class	Name	Number		Qty	Remarks
		ON when approaching (NO, Normally Open)	ON when leaving (NC, Normally Closed)		
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
Assy	Target plate option	KES-M2206-00		
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 (NO, Normally Open)	ON when leaving (NC, Normally Closed)		
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
Assy	Target plate option	KES-M2206-00		
Component	⑥ Switch target plate	KES-M22G5-00	1	
	⑦ Target plate bolt	91312-03006	2	M3 × 0.5 Length 6

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

Robonity series

External Sensor Installation Guide (Left side shown)

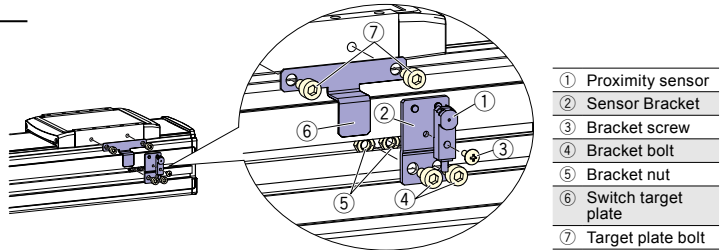
■ Sensor Spec

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

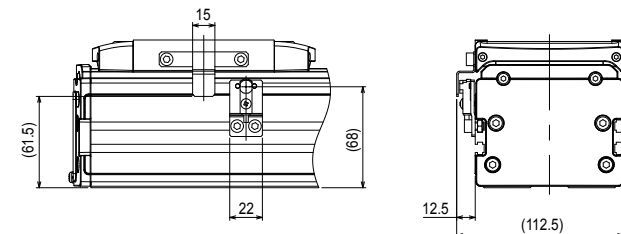
[Caution]

- 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



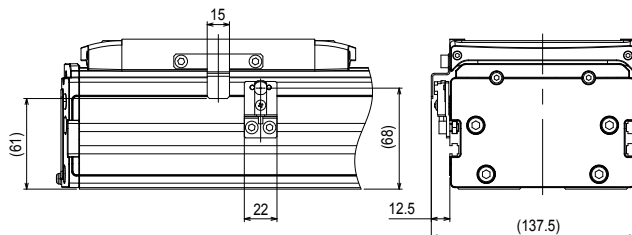
Proximity sensor option

Class	Name	Number		Qty	Remarks
		ON when approaching (NO, Normally Open)	ON when leaving (NC, Normally Closed)		
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



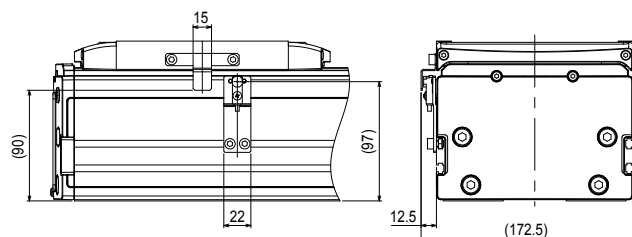
Proximity sensor option

Class	Name	Number		Qty	Remarks
		ON when approaching (NO, Normally Open)	ON when leaving (NC, Normally Closed)		
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



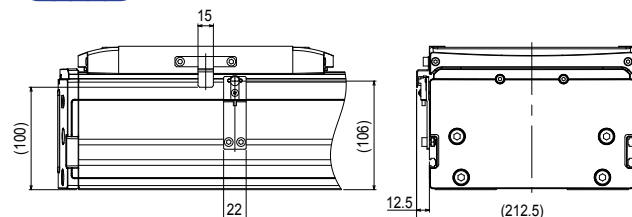
Proximity sensor option

Class	Name	Number		Qty	Remarks
		ON when approaching (NO, Normally Open)	ON when leaving (NC, Normally Closed)		
Assy	Proximity sensor option	KEX-M2205-10	KEX-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

LGXS20



Proximity sensor option

Class	Name	Number		Qty	Remarks
		ON when approaching (NO, Normally Open)	ON when leaving (NC, Normally Closed)		
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

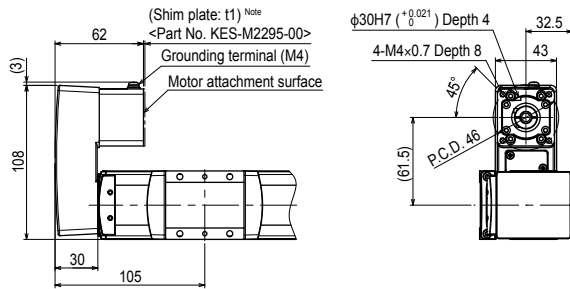
Target plate option

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

Robonity series

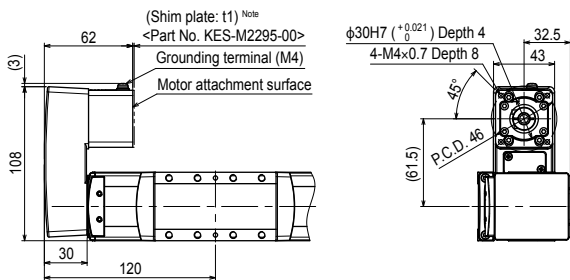
Reference guide for right angle motor mount (right side shown)

LGXS05



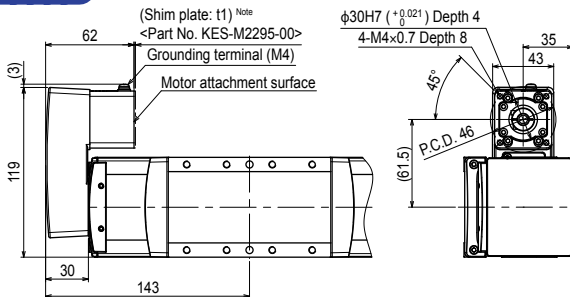
Note. For the availability of shim plate, see the adaptable servo motor table (P.15).

LGXS05L



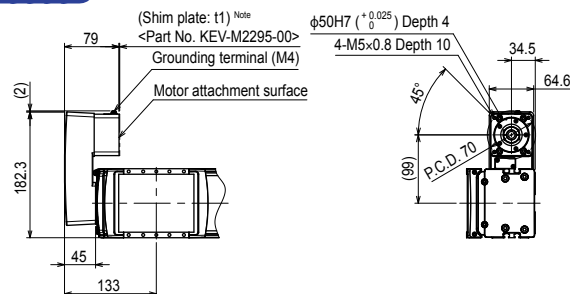
Note. For the availability of shim plate, see the adaptable servo motor table (P.16).

LGXS07



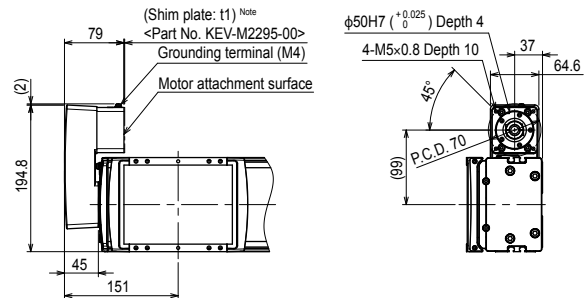
Note. For the availability of shim plate, see the adaptable servo motor table (P.17).

LGXS10



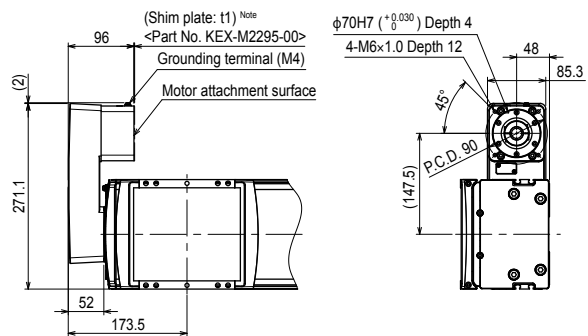
Note. For the availability of shim plate, see the adaptable servo motor table (P.18).

LGXS12



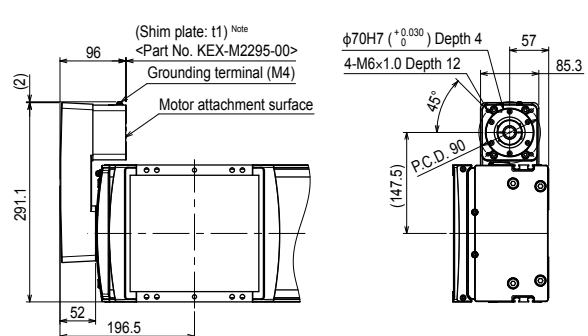
Note. For the availability of shim plate, see the adaptable servo motor table (P.19).

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	20 kg	12 kg	24 kg	40 kg	45 kg	40 kg	80 kg	100 kg
	Vertical	2 kg	5 kg	3 kg	6 kg	12 kg	15 kg	8 kg	20 kg	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 Vertical	5 kg	8 kg	13 kg	12 kg	24 kg	32 kg	10 kg	25 kg	45 kg	85 kg
		2 kg	4 kg	8 kg	3 kg	6 kg	12 kg	2 kg	4 kg	8 kg	16 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 (or equivalent)	Horizontal Vertical	25 kg	40 kg	80 kg	100 kg	35 kg	50 kg	95 kg	115 kg	45 kg	95 kg	130 kg	65 kg	130 kg
		4 kg	8 kg	20 kg	30 kg	8 kg	15 kg	25 kg	45 kg	12 kg	28 kg	55 kg	15 kg	35 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
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)													



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