

LGFS14

Advanced model

Motor-less Single Axis Actuator

Long-stroke type

Ordering method

LGFS14

Model	Lead	Motor specification	OP1	Stroke
	30: 30 mm 20: 20 mm 10: 10 mm 5: 5 mm	Y: Y specification (see below) P: P specification (see below) K: K specification (see below)	No entry: Standard M: Centralized Lubrication	100 to 1050 (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 the user's responsibility. Refer to user's manual for installation details. Refer to your motor manual for tuning or adjustment. Vibration or resonance from actuator will affect service life of actuator. The product performance may not be satisfied depending on the compatible motor. For special parts for motor installation, install and adjust on your side.

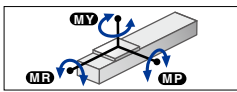
LGFS14 (200W)

Specifications

Applicable motor	200 W			
Repeatability ^{Note 1}	±0.01 mm			
Deceleration mechanism	Rolled ball screw φ 15 (C7 class)			
Stroke	100 mm to 1050 mm (50 mm pitch)			
Maximum speed ^{Note 2}	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}	Horizontal	30 kg	45 kg	90 kg
	Vertical	3 kg	6 kg	16 kg
Rated Thrust ^{Note 3}		113 N	170 N	341 N
				683 N
Maximum dimensions of cross section of main unit	W 140 mm × H 83 mm			
Overall length Straight	ST + 394.5 mm			
Degree of Cleanliness ^{Note 4}	Equivalent to ISO Class 3 (ISO 14644-1)			
Intake air ^{Note 5}	90 Nℓ/min to 100 Nℓ/min			
Using ambient temperature and humidity	0 to 40 °C, 35 to 80 %RH (no condensation)			

- 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.

Static loading moment



	(Unit: N·m)		
	MY	MP	MR
	441	543	478

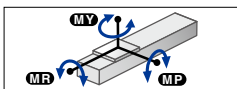
LGFS14 (400W)

Specifications

Applicable motor	400 W			
Repeatability ^{Note 1}	±0.01 mm			
Deceleration mechanism	Rolled ball screw φ 15 (C7 class)			
Stroke	100 mm to 1050 mm (50 mm pitch)			
Maximum speed ^{Note 2}	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}	Horizontal	50 kg	70 kg	140 kg
	Vertical	10 kg	15 kg	30 kg
Rated Thrust ^{Note 3}		225 N	339 N	678 N
				1360 N
Maximum dimensions of cross section of main unit	W 140 mm × H 83 mm			
Overall length Straight	ST + 394.5 mm			
Degree of Cleanliness ^{Note 4}	Equivalent to ISO Class 3 (ISO 14644-1)			
Intake air ^{Note 5}	90 Nℓ/min to 100 Nℓ/min			
Using ambient temperature and humidity	0 to 40 °C, 35 to 80 %RH (no condensation)			

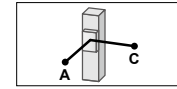
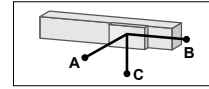
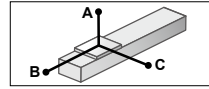
- Note 1. Positioning repeatability in one direction.
 Note 2. When a moving distance is short and depending on an operation condition, it may not reach the maximum speed. If the effective stroke exceeds 600 mm, the ball screw may resonate. (Critical speed) At this time, make the adjustment to decrease 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.

Static loading moment



	(Unit: N·m)		
	MY	MP	MR
	441	543	478

Allowable overhang ^{Note}



LGFS14-30(200W)

Horizontal installation (Unit: mm)				Wall installation (Unit: mm)			Vertical installation (Unit: mm)			
	A	B	C		A	B	C		A	C
5kg	4905	3005	2651	5kg	2683	2966	4862	1kg	11158	11158
15kg	2257	988	954	15kg	971	949	2185	3kg	3983	3983
30kg	2045	558	627	30kg	632	519	1930			

LGFS14-20(200W)

Horizontal installation (Unit: mm)				Wall installation (Unit: mm)			Vertical installation (Unit: mm)			
	A	B	C		A	B	C		A	C
15kg	3254	1258	1400	15kg	1400	1219	3197	2kg	8093	8093
30kg	2079	614	714	30kg	704	575	1993	4kg	4175	4175
45kg	1637	400	474	45kg	459	361	1523	6kg	2872	2872

LGFS14-10(200W)

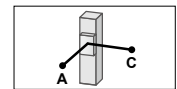
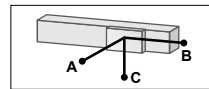
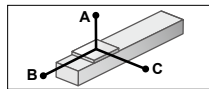
Horizontal installation (Unit: mm)				Wall installation (Unit: mm)			Vertical installation (Unit: mm)			
	A	B	C		A	B	C		A	C
30kg	4186	855	1158	30kg	1124	816	4112	5kg	5041	5041
60kg	2619	413	566	60kg	525	374	2511	10kg	2519	2519
90kg	2042	266	367	90kg	322	227	1897	16kg	1572	1572

LGFS14-5(200W)

Horizontal installation (Unit: mm)				Wall installation (Unit: mm)			Vertical installation (Unit: mm)			
	A	B	C		A	B	C		A	C
40kg	7737	681	982	40kg	932	641	7609	10kg	2781	2781
80kg	4818	326	471	80kg	418	287	4627	20kg	1374	1374
120kg	3749	208	301	120kg	246	169	3487	30kg	905	905

- 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.
 Note. When using it suspended from the ceiling, the overhang will be the same as when used horizontally.

Allowable overhang ^{Note}



LGFS14-30(400W)

Horizontal installation (Unit: mm)				Wall installation (Unit: mm)			Vertical installation (Unit: mm)			
	A	B	C		A	B	C		A	C
15kg	1923	982	912	15kg	913	943	1866	3kg	3663	3663
30kg	1614	527	562	30kg	562	488	1518	5kg	2243	2243
50kg	1658	349	416	50kg	403	310	1509	10kg	1160	1160

LGFS14-20(400W)

Horizontal installation (Unit: mm)				Wall installation (Unit: mm)			Vertical installation (Unit: mm)			
	A	B	C		A	B	C		A	C
15kg	2756	1258	1347	15kg	1336	1219	2711	5kg	3206	3206
30kg	1780	614	696	30kg	680	575	1712	10kg	1627	1627
70kg	1100	247	294	70kg	268	208	969	15kg	1093	1093

LGFS14-10(400W)

Horizontal installation (Unit: mm)				Wall installation (Unit: mm)			Vertical installation (Unit: mm)			
	A	B	C		A	B	C		A	C
30kg	3732	855	1148	30kg	1112	816	3670	10kg	2499	2499
50kg	2742	502	683	50kg	642	462	2655	15kg	1664	1664
110kg	1781	212	293	110kg	247	173	1615	30kg	823	823

LGFS14-5(400W)

Horizontal installation (Unit: mm)				Wall installation (Unit: mm)			Vertical installation (Unit: mm)			
	A	B	C		A	B	C		A	C
50kg	5089	539	775	50kg	724	500	4991	15kg	1833	1833
100kg	3425	255	368	100kg	314	216	3257	30kg	900	900
140kg	2863	174	252	140kg	197	135	2630	45kg	589	589

- 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.
 Note. When using it suspended from the ceiling, the overhang will be the same as when used horizontally.



► The cycle time simulation and service life calculation can be performed easily from our member site.

■ Applicable motor

● Applicable servo motor

Motor specification	Flange size	Wattage	Manufacturer	Model
Y	□ 60	200W	Tamagawa Seiki	TSM4252N □ □ 00E200
			Yaskawa Electric Corp.	SGM7J-02
				SGMXJ-02
			Keyence Corp.	SV- □ 020
				SV2- □ 020
			Mitsubishi Electric Corp.	SV3- □ 020
		HG-KR23 ^{Note 1}		
		HK-KT23 ^{Note 1}		
		400W	Tamagawa Seiki	TSM4254N □ □ 00E200
				Yaskawa Electric Corp.
			SGMXJ-04	
			Keyence Corp.	SV- □ 040
SV2- □ 040				
Mitsubishi Electric Corp.	SV3- □ 040			
	HG-KR43 ^{Note 1}			
Fanuc Corp.	HK-KT43 ^{Note 1}			
	HK-MT43 ^{Note 1}			
P	□ 60	200W	Omron Electronics	βiS1/6000-B ^{Note 1}
				R88M-K20030
			Panasonic Corp.	R88M-1M20030
				MSMF022
				MHMF022
				MHMG022
K	□ 60	400W	Omron Electronics	R88M-K40030
				R88M-1M40030
			Panasonic Corp.	MSMF042
				MHMF042
				MHMG042
				MHMG042

Note 1. A special shim plate is required when combining with the bending unit.

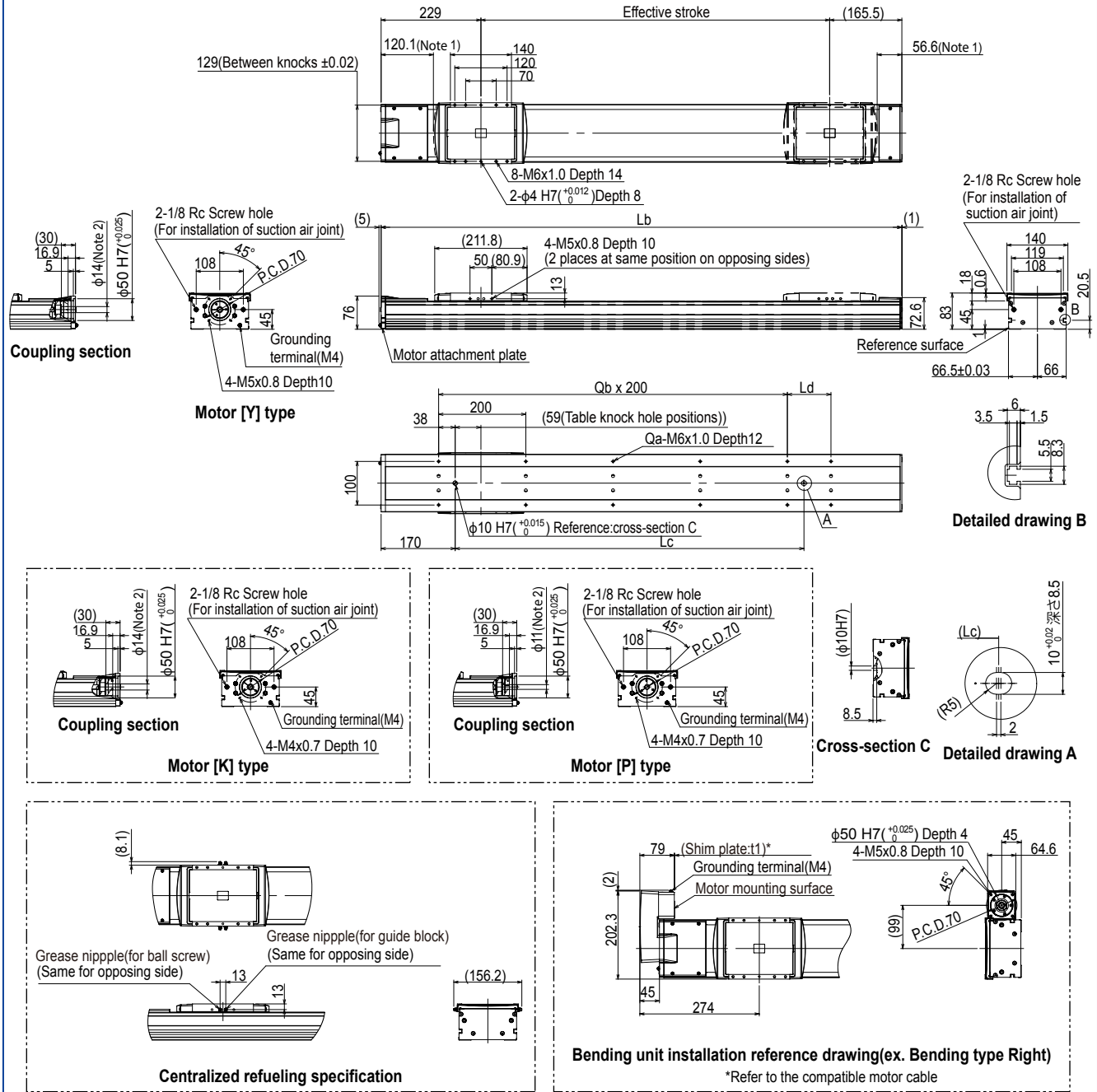
Part number of shim plate
KEV-M2295-00

Note 2. The bending unit can only be installed on the Y specification.

Part number of bending unit
KEV-M221M-01 ^{Note 2}

- Linear conveyor modules LCMR200
- Single-axis robots GX
- Linear conveyor modules LCM100
- SCARA robots YK-X
- Single-axis robots Robonity
- Linear motor PHASER
- Single-axis robots FLIP-X
- Compact single-axis robots TRANSERO
- Cartesian robots XY-X
- Pick & place robots YP-X
- CLEAN
- CONTROLLER
- INFORMATION
- LBFS
- LBAS
- LGXS
- LBAR
- LGBS
- LGFS
- ABFS
- ABAS
- AGXS
- ABAR
- AGBS
- AGFS
- Option

LGFS14



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

Note 2. The recommended dimensional tolerances for the applicable shaft diameter are h6 and h7.

Note. In the installation tap hole, the length under head <<thickness of stand +10mm or less>> is recommended for the hex socket head bolts <M6x1.0> used to install the main unit.

Effective stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1050				
Lb	494.5	544.5	594.5	644.5	694.5	744.5	794.5	844.5	894.5	944.5	994.5	1044.5	1094.5	1144.5	1194.5	1244.5	1294.5	1344.5	1394.5	1444.5	1444.5				
Lc	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1050				
Ld	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	150				
Qa	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14				
Qb	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5				
Weight (kg)	7.9	8.5	9	9.5	10.1	10.6	11.1	11.6	12.2	12.7	13.2	13.8	14.3	14.8	15.4	15.9	16.4	16.9	17.5	18	18				
Maximum speed (mm/sec)	Lead 30	1800													1710	1530	1170	990	900	810	720				
	Speed setting	-													95%	85%	65%	55%	50%	45%	40%				
	Lead 20	1200													1140	1020	900	780	660	600	540	480	420		
	Speed setting	-													95%	85%	75%	65%	55%	50%	45%	40%	35%		
	Lead 10	600													570	480	420	360	330	300	270	240	210		
	Speed setting	-													95%	80%	70%	60%	55%	50%	45%	40%	35%		
Stroke restriction	Lead 5	300													270	240	210	180	165	150	135	120	105		
	Speed setting	-													90%	80%	70%	60%	55%	50%	45%	40%	35%		
	Horizontal · Vertical	No stroke restrictions													No stroke restrictions										
Wall hanging	No stroke restrictions													No stroke restrictions											
Ceiling-mounted	No stroke restrictions													No stroke restrictions											

LGFS14L

Advanced model

Motor-less Single Axis Actuator

Long-stroke type

Ordering method

LGFS14L				
Model	Lead	Motor specification	OP1	Stroke
	30: 30 mm 20: 20 mm 10: 10 mm 5: 5 mm	Y: Y specification (see below) P: P specification (see below) K: K specification (see below)	No entry: Standard M: Centralized lubrication	750 to 2000 (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 the user's responsibility. Refer to user's manual for installation details. Refer to your motor manual for tuning or adjustment. Vibration or resonance from actuator will affect service life of actuator. The product performance may not be satisfied depending on the compatible motor. For special parts for motor installation, install and adjust on your side.

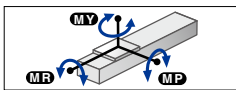
LGFS14L (200W)

Specifications

Applicable motor	200 W			
Repeatability ^{Note 1}	±0.01 mm			
Deceleration mechanism	Rolled ball screw φ 15 (C7 class)			
Stroke	750 mm to 2000 mm (50 mm pitch)			
Maximum speed ^{Note 2}	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}	Horizontal	30 kg	45 kg	120 kg
	Vertical	3 kg	6 kg	30 kg
Rated Thrust ^{Note 3}		113 N	170 N	683 N
Maximum dimensions of cross section of main unit	W 140 mm × H 91.5 mm			
Overall length Straight	ST + 462.5 mm			
Degree of Cleanliness ^{Note 4}	Equivalent to ISO Class 3 (ISO 14644-1)			
Intake air ^{Note 5}	90 Nℓ/min to 100 Nℓ/min			
Using ambient temperature and humidity	0 to 40 °C, 35 to 80 %RH (no condensation)			

- 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.

Static loading moment



	(Unit: N·m)		
	MY	MP	MR
	441	543	478

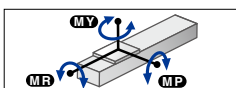
LGFS14L (400W)

Specifications

Applicable motor	400 W			
Repeatability ^{Note 1}	±0.01 mm			
Deceleration mechanism	Rolled ball screw φ 15 (C7 class)			
Stroke	750 mm to 2000 mm (50 mm pitch)			
Maximum speed ^{Note 2}	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}	Horizontal	50 kg	70 kg	140 kg
	Vertical	10 kg	15 kg	45 kg
Rated Thrust ^{Note 3}		225 N	339 N	1360 N
Maximum dimensions of cross section of main unit	W 140 mm × H 91.5 mm			
Overall length Straight	ST + 462.5 mm			
Degree of Cleanliness ^{Note 4}	Equivalent to ISO Class 3 (ISO 14644-1)			
Intake air ^{Note 5}	90 Nℓ/min to 100 Nℓ/min			
Using ambient temperature and humidity	0 to 40 °C, 35 to 80 %RH (no condensation)			

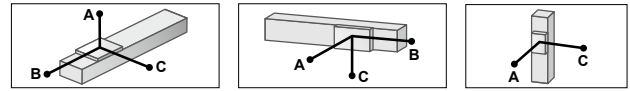
- Note 1. Positioning repeatability in one direction.
 Note 2. When a moving distance is short and depending on an operation condition, it may not reach the maximum speed.
 Note 3. The rated thrust and maximum transferable weight are values assuming the attached motor outputs the rated torque.
 Note 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.

Static loading moment



	(Unit: N·m)		
	MY	MP	MR
	441	543	478

Allowable overhang ^{Note}



LGFS14L-30(200W)

Horizontal installation (Unit: mm)	A	B	C	Wall installation (Unit: mm)	A	B	C	Vertical installation (Unit: mm)	A	C			
	5kg	5829	3006		3007	5kg	3034		2966	5786	1kg	12226	12226
	15kg	2669	983	1061		15kg	1069	943	2597		3kg	4291	4291
	30kg	1764	477	538		30kg	536	438	1649				

LGFS14L-20(200W)

Horizontal installation (Unit: mm)	A	B	C	Wall installation (Unit: mm)	A	B	C	Vertical installation (Unit: mm)	A	C			
	15kg	3873	1258		1526	15kg	1514		1219	3816	2kg	8582	8582
	30kg	2484	615	770		30kg	750	575	2398		4kg	4381	4381
	45kg	1964	400	509		45kg	483	361	1848		6kg	2980	2980

LGFS14L-10(200W)

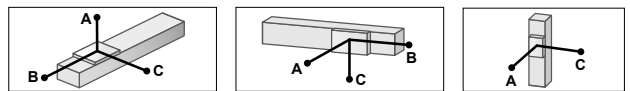
Horizontal installation (Unit: mm)	A	B	C	Wall installation (Unit: mm)	A	B	C	Vertical installation (Unit: mm)	A	C			
	30kg	4980	855		1193	30kg	1151		816	4906	5kg	5126	5126
	60kg	3127	413	581		60kg	534	374	3018		10kg	2555	2555
	90kg	2446	266	375		90kg	326	227	2300		16kg	1590	1590

LGFS14L-5(200W)

Horizontal installation (Unit: mm)	A	B	C	Wall installation (Unit: mm)	A	B	C	Vertical installation (Unit: mm)	A	C			
	40kg	9198	681		988	40kg	936		641	9069	10kg	2788	2788
	80kg	5743	326	474		80kg	419	287	5550		20kg	1377	1377
	120kg	4484	208	302		120kg	247	169	4216		30kg	906	906

- 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 1000 mm stroke models.
 Note. When using it suspended from the ceiling, the overhang will be the same as when used horizontally.

Allowable overhang ^{Note}



LGFS14L-30(400W)

Horizontal installation (Unit: mm)	A	B	C	Wall installation (Unit: mm)	A	B	C	Vertical installation (Unit: mm)	A	C			
	15kg	2295	982		1028	15kg	1024		943	2238	3kg	4023	4023
	30kg	1570	477	529		30kg	522	438	1473		5kg	2450	2450
	50kg	1409	297	353		50kg	335	258	1260		10kg	1255	1255

LGFS14L-20(400W)

Horizontal installation (Unit: mm)	A	B	C	Wall installation (Unit: mm)	A	B	C	Vertical installation (Unit: mm)	A	C			
	15kg	3281	1258		1481	15kg	1461		1219	3236	5kg	3404	3404
	30kg	2126	615	756		30kg	731	575	2058		10kg	1715	1715
	70kg	1328	247	316		70kg	281	208	1195		15kg	1146	1146

LGFS14L-10(400W)

Horizontal installation (Unit: mm)	A	B	C	Wall installation (Unit: mm)	A	B	C	Vertical installation (Unit: mm)	A	C			
	30kg	4441	855		1186	30kg	1143		816	4379	10kg	2542	2542
	50kg	3270	502	702		50kg	656	462	3182		15kg	1689	1689
	110kg	2140	212	300		110kg	250	173	1971		30kg	832	832

LGFS14L-5(400W)

Horizontal installation (Unit: mm)	A	B	C	Wall installation (Unit: mm)	A	B	C	Vertical installation (Unit: mm)	A	C			
	50kg	6053	539		781	50kg	727		500	5955	15kg	1841	1841
	100kg	4089	255	371		100kg	315	216	3918		30kg	903	903
	140kg	3429	174	253		140kg	197	135	3188		45kg	590	590

- 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 1000 mm stroke models.
 Note. When using it suspended from the ceiling, the overhang will be the same as when used horizontally.



► The cycle time simulation and service life calculation can be performed easily from our member site.

■ Applicable motor

● Applicable servo motor

Motor specification	Flange size	Wattage	Manufacturer	Model
Y	□ 60	200W	Tamagawa Seiki	TSM4252N □ □ 00E200
			Yaskawa Electric Corp.	SGM7J-02
				SGMJJ-02
			Keyence Corp.	SV- □ 020
				SV2- □ 020
				SV3- □ 020
		Mitsubishi Electric Corp.	HG-KR23 ^{Note1}	
			HK-KT23 ^{Note1}	
			HK-MT23 ^{Note1}	
		400W	Tamagawa Seiki	TSM4254N □ □ 00E200
			Yaskawa Electric Corp.	SGM7J-04
				SGMJJ-04
Keyence Corp.	SV- □ 040			
	SV2- □ 040			
Mitsubishi Electric Corp.	SV3- □ 040			
	HG-KR43 ^{Note1}			
HK-KT43 ^{Note1}	HK-KT43 ^{Note1}			
	HK-MT43 ^{Note1}			
500W	□ 60	Fanuc Corp.	βiS1/6000-B ^{Note1}	
P	□ 60	200W	Omron Electronics	R88M-K20030
				R88M-1M20030
		Panasonic Corp.	MSMF022	
			MHMF022	
K	□ 60	400W	Omron Electronics	R88M-K40030
				R88M-1M40030
		Panasonic Corp.	MSMF042	
			MHMF042	
			MHMG042	

Note 1. A special shim plate is required when combining with the bending unit.

Part number of shim plate
KEV-M2295-00

Note 2. The bending unit can only be installed on the Y specification.

Part number of bending unit
KEV-M221M-01 ^{Note2}

Linear conveyor modules
LCMR200

Single-axis robots
GX

Linear conveyor modules
LCM100

SCARA robots
YK-X

Single-axis robots
Robonity

Linear motor single-axis robots
PHASER

Single-axis robots
FLIP-X

Compact single-axis robots
TRANSERO

Cartesian robots
XY-X

Pick & place robots
YP-X

CLEAN

CONTROLLER

INFORMATION

LBAS

LBARS

LGXS

LGXS

LBAS

ABAS

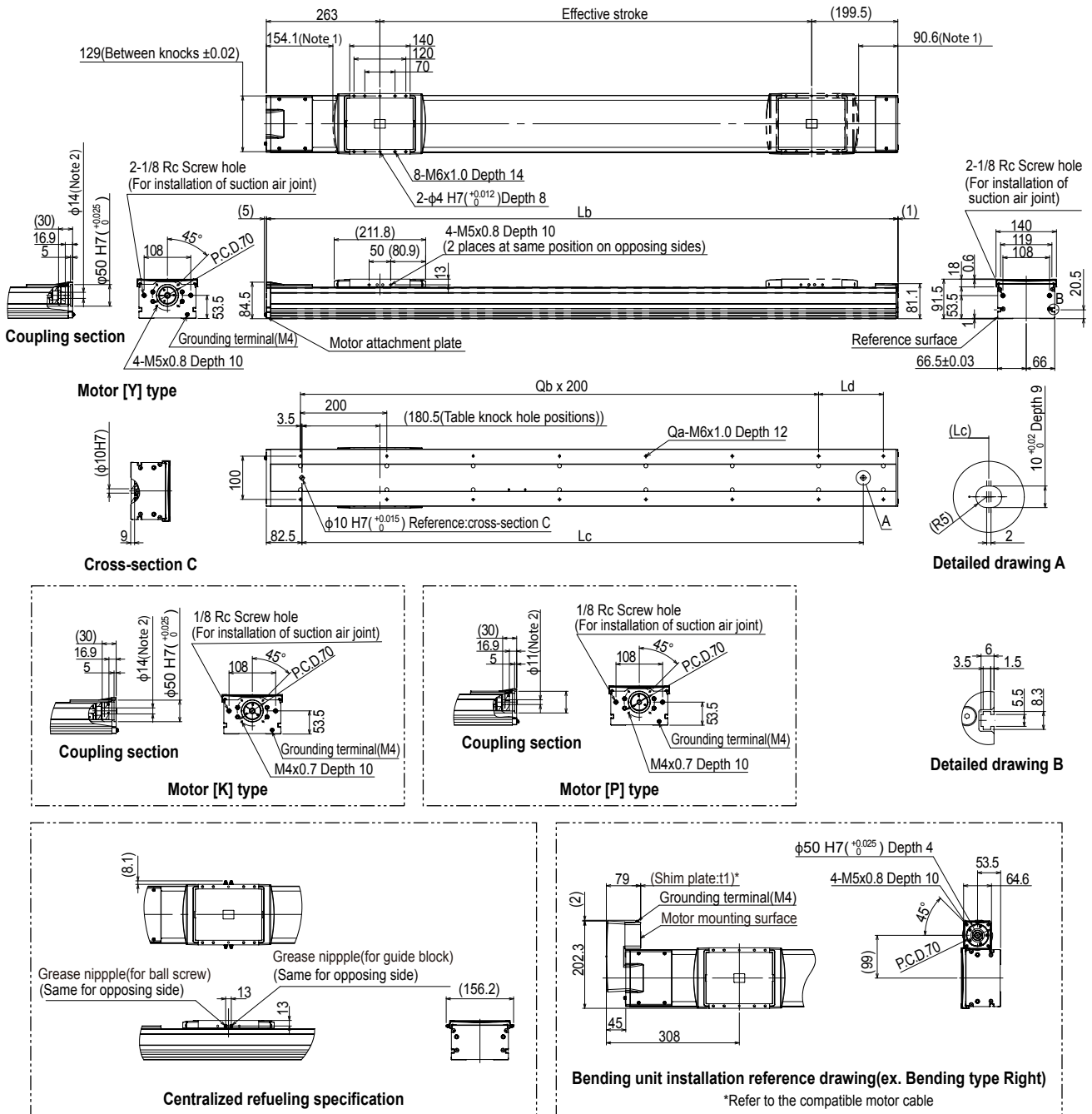
ABARS

AGXS

AGXS

Option

LGFS14L



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

Note 2. The recommended dimensional tolerances for the applicable shaft diameter are h6 and h7.

Note. In the installation tap hole, the length under head <<thickness of stand +10mm or less>> is recommended for the hex socket head bolts <M6x1.0> used to install the main unit.

Effective stroke	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
Lb	1212.5	1262.5	1312.5	1362.5	1412.5	1462.5	1512.5	1562.5	1612.5	1662.5	1712.5	1762.5	1812.5	1862.5	1912.5	1962.5	2012.5	2062.5	2112.5	2162.5	2212.5	2262.5	2312.5	2362.5	2412.5	2462.5
Lc	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300
Ld	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
Qa	14	14	14	16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26
Qb	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11
Weight (kg)	18.6	19.2	19.8	20.3	20.9	21.5	22.1	22.6	23.2	23.8	24.3	24.9	25.5	26.1	26.6	27.2	27.8	28.4	28.9	29.5	30.1	30.6	31.2	31.8	32.4	32.9
Maximum speed (mm/sec)	Lead 30	1800																								
	Lead 20	1200																								
	Lead 10	600																								
	Lead 5	300																								
Speed setting	-																									
Stroke restriction	Horizontal - Vertical	No stroke restrictions																								
	Wall hanging	To 1800st																								
	Ceiling-mounted	To 1200st																								

- Linear conveyor modules LCMR200
- Single-axis robots GX
- Linear conveyor modules LCM100
- SCARA robots YK-X
- Single-axis robots Robonity
- Linear motor PHASER
- Single-axis robots FLIP-X
- Compact single-axis robots TRANSERO
- Cartesian robots XX-X
- Pick & place robots YP-X
- CLEAN
- CONTROLLER INFORMATION
- LBFS
- LBAS
- LGXS
- LBAR
- LGFS
- LBFS
- ABAS
- AGXS
- ABAR
- AGFS
- AGXS
- AGBS
- Option

LGFS17

Advanced model

Motor-less Single Axis Actuator

Long-stroke type

Ordering method

LGFS17				
Model	Lead	Motor specification	OP1	Stroke
	40: 40 mm 20: 20 mm 10: 10 mm 5: 5 mm	Y: Y specification (see below) P: P specification (see below) T: T specification (see below) K: K specification (see below)	No entry: Standard M: Centralized Lubrication	100 to 1250 (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 the user's responsibility. Refer to user's manual for installation details. Refer to your motor manual for tuning or adjustment. Vibration or resonance from actuator will affect service life of actuator. The product performance may not be satisfied depending on the compatible motor. For special parts for motor installation, install and adjust on your side.

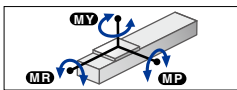
LGFS17 (400W)

Specifications

Applicable motor	400 W			
Repeatability <small>Note 1</small>	±0.01 mm			
Deceleration mechanism	Rolled ball screw φ20 (C7 class)			
Stroke	100 mm to 1250 mm (50 mm pitch)			
Maximum speed <small>Note 2</small>	2400 mm/sec	1200 mm/sec	600 mm/sec	300 mm/sec
Ball screw lead	40 mm	20 mm	10 mm	5 mm
Maximum payload <small>Note 3</small>	Horizontal	40 kg	90 kg	140 kg
	Vertical	6 kg	12 kg	35 kg
Rated Thrust <small>Note 3</small>	169 N	339 N	678 N	1356 N
Maximum dimensions of cross section of main unit	W 168 mm × H 100 mm			
Overall length Straight	ST + 456 mm			
Degree of Cleanliness <small>Note 4</small>	Equivalent to ISO Class 3 (ISO 14644-1)			
Intake air <small>Note 5</small>	115 Nℓ/min			
Using ambient temperature and humidity	0 to 40 °C, 35 to 80 %RH (no condensation)			

- 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 800 mm/sec or less.
 Note 5. The required suction amount will vary according to the operating conditions and operating environment.

Static loading moment



	(Unit: N·m)		
	MY	MP	MR
	1062	1063	934

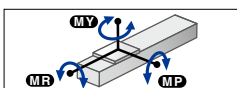
LGFS17 (750W)

Specifications

Applicable motor	750 W			
Repeatability <small>Note 1</small>	±0.01 mm			
Deceleration mechanism	Rolled ball screw φ20 (C7 class)			
Stroke	100 mm to 1250 mm (50 mm pitch)			
Maximum speed <small>Note 2</small>	2400 mm/sec	1200 mm/sec	600 mm/sec	300 mm/sec
Ball screw lead	40 mm	20 mm	10 mm	5 mm
Maximum payload <small>Note 3</small>	Horizontal	80 kg	150 kg	200 kg
	Vertical	12 kg	35 kg	70 kg
Rated Thrust <small>Note 3</small>	320 N	640 N	1280 N	2560 N
Maximum dimensions of cross section of main unit	W 168 mm × H 100 mm			
Overall length Straight	ST + 459.5 mm			
Degree of Cleanliness <small>Note 4</small>	Equivalent to ISO Class 3 (ISO 14644-1)			
Intake air <small>Note 5</small>	115 Nℓ/min			
Using ambient temperature and humidity	0 to 40 °C, 35 to 80 %RH (no condensation)			

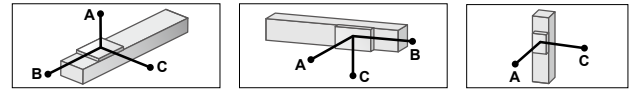
- Note 1. Positioning repeatability in one direction.
 Note 2. When a moving distance is short and depending on an operation condition, it may not reach the maximum speed. If the effective stroke exceeds 700 mm, the ball screw may resonate. (Critical speed) At this time, make the adjustment to decrease 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 800 mm/sec or less.
 Note 5. The required suction amount will vary according to the operating conditions and operating environment.

Static loading moment



	(Unit: N·m)		
	MY	MP	MR
	1062	1063	934

Allowable overhang Note



LGFS17-40(400W)											
Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)					
	A	B	C		A	B	C		A	C	
10kg	4066	2660	2134	10kg	2165	2610	4005	2kg	9892	9892	
20kg	2619	1335	1199	20kg	1214	1284	2540	4kg	5527	5527	
40kg	2079	732	752	40kg	756	682	1965	6kg	4137	4137	

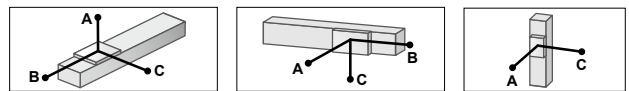
LGFS17-20(400W)											
Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)					
	A	B	C		A	B	C		A	C	
30kg	3378	1182	1321	30kg	1316	1131	3293	4kg	8034	8034	
50kg	2245	691	786	50kg	768	640	2142	8kg	4058	4058	
90kg	1444	364	423	90kg	392	313	1304	12kg	2730	2730	

LGFS17-10(400W)											
Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)					
	A	B	C		A	B	C		A	C	
50kg	5754	966	1299	50kg	1258	916	5628	15kg	3255	3255	
100kg	3119	461	621	100kg	568	410	2967	25kg	1942	1942	
140kg	2347	316	427	140kg	370	266	2171	35kg	1379	1379	

LGFS17-5(400W)																				
Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)														
No settings			No settings			<table border="1"> <tr> <td></td> <td>A</td> <td>C</td> </tr> <tr> <td>10kg</td> <td>5349</td> <td>5349</td> </tr> <tr> <td>30kg</td> <td>1755</td> <td>1755</td> </tr> <tr> <td>50kg</td> <td>1037</td> <td>1037</td> </tr> </table>				A	C	10kg	5349	5349	30kg	1755	1755	50kg	1037	1037
	A	C																		
10kg	5349	5349																		
30kg	1755	1755																		
50kg	1037	1037																		

- 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.
 Note. When using it suspended from the ceiling, the overhang will be the same as when used horizontally.

Allowable overhang Note



LGFS17-40(750W)											
Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)					
	A	B	C		A	B	C		A	C	
20kg	1851	1307	1006	20kg	1000	1256	1793	4kg	4200	4200	
50kg	1404	555	548	50kg	537	505	1302	8kg	2186	2186	
80kg	1371	375	413	80kg	392	324	1224	12kg	1523	1523	

LGFS17-20(750W)											
Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)					
	A	B	C		A	B	C		A	C	
50kg	2449	691	796	50kg	782	640	2331	15kg	2256	2256	
100kg	1708	325	388	100kg	359	275	1499	25kg	1470	1470	
150kg	1733	226	286	150kg	241	176	1430	35kg	1131	1131	

LGFS17-10(750W)											
Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)					
	A	B	C		A	B	C		A	C	
100kg	3786	966	1263	100kg	1213	916	3718	30kg	1579	1579	
150kg	2054	461	607	150kg	551	410	1972	50kg	937	937	
200kg	1548	316	419	200kg	360	266	1452	70kg	661	661	

LGFS17-5(750W)																				
Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)														
No settings			No settings			<table border="1"> <tr> <td></td> <td>A</td> <td>C</td> </tr> <tr> <td>40kg</td> <td>1750</td> <td>1750</td> </tr> <tr> <td>70kg</td> <td>1033</td> <td>1033</td> </tr> <tr> <td>100kg</td> <td>726</td> <td>726</td> </tr> </table>				A	C	40kg	1750	1750	70kg	1033	1033	100kg	726	726
	A	C																		
40kg	1750	1750																		
70kg	1033	1033																		
100kg	726	726																		

- 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.
 Note. When using it suspended from the ceiling, the overhang will be the same as when used horizontally.



▶ The cycle time simulation and service life calculation can be performed easily from our member site.

■ Applicable motor

● Applicable servo motor

Motor specification	Flange size	Wattage	Manufacturer	Model
Y	□ 60	400W	Tamagawa Seiki	TSM4254N □ □ 00E200
			Yaskawa Electric Corp.	SGM7J-04
				SGMJJ-04
			Keyence Corp.	SV- □ 040
		SV2- □ 040		
		500W	Mitsubishi Electric Corp.	HG-KR43
				HK-KT43
			Fanuc Corp.	HK-MT43
βiS1/6000-B				
P	□ 60	400W	Omron Electronics	R88M-K40030
			R88M-1M40030	
		Panasonic Corp.	MSMF042	
			MHMF042	
T	□ 80	750W	Tamagawa Seiki	TSM4354N □ □ 00E200
			Yaskawa Electric Corp.	SGM7J-08
				SGMJJ-08
			Keyence Corp.	SV □ 075 ^{Note1}
		SV2 □ 075		
		Mitsubishi Electric Corp.	SV3 □ 075	
			HG-KR73 ^{Note1}	
			HK-KT7M3 ^{Note1}	
HK-MT7M3 ^{Note1}				
K	□ 80	750W	Omron Electronics	R88M-K75030
			R88M-1M75030	
		Panasonic Corp.	MSMF082	
			MHMF082	
				MHMG082

Note 1. A special shim plate is required when combining with the bending unit.

Part number of shim plate
KEX-M2295-00

Note 2. The bending unit can only be installed on the T specification.

Part number of bending unit
KEX-M221M-01 ^{Note 2}

Linear conveyor modules	LCMR200
Single-axis robots	GX
Linear conveyor modules	LCM100
SCARA robots	YK-X
Single-axis robots	Robonity
Linear motor	PHASER
Single-axis robots	FLIP-X
Compact	TRANSERO
Cartesian robots	XX-X
Pick & place robots	YP-X
CLEAN	
CONTROLLER	
INFORMATION	
LBFS	LBAS
LGXS	LBAR
LGBS	LGFS
ABFS	ABAS
AGXS	ABAR
AGBS	AGFS
Option	

LGFS17L

Advanced model

Motor-less Single Axis Actuator

Long-stroke type

Ordering method

LGFS17L				
Model	Lead	Motor specification	OP1	Stroke
	40: 40 mm 20: 20 mm 10: 10 mm 5: 5 mm	Y: Y specification (see below) P: P specification (see below) T: T specification (see below) K: K specification (see below)	No entry: Standard M: Centralized lubrication	850 to 3000 (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 the user's responsibility. Refer to user's manual for installation details. Refer to your motor manual for tuning or adjustment. Vibration or resonance from actuator will affect service life of actuator. The product performance may not be satisfied depending on the compatible motor. For special parts for motor installation, install and adjust on your side.

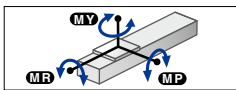
LGFS17L (400W)

Specifications

Applicable motor	400 W			
Repeatability <small>Note 1</small>	±0.01 mm			
Deceleration mechanism	Rolled ball screw ϕ 20 (C7 class)			
Stroke	850 mm to 3000 mm (50 mm pitch)			
Maximum speed <small>Note 2</small>	2400 mm/sec	1200 mm/sec	600 mm/sec	300 mm/sec
Ball screw lead	40 mm	20 mm	10 mm	5 mm
Maximum payload <small>Note 3</small>	Horizontal	40 kg	90 kg	140 kg
	Vertical	6 kg	12 kg	35 kg
Rated Thrust <small>Note 3</small>	169 N	339 N	678 N	1356 N
Maximum dimensions of cross section of main unit	W 168 mm \times H 105.5 mm			
Overall length Straight	ST + 570 mm			
Degree of Cleanliness <small>Note 4</small>	Equivalent to ISO Class 3 (ISO 14644-1)			
Intake air <small>Note 5</small>	115 N ℓ /min			
Using ambient temperature and humidity	0 to 40 °C, 35 to 80 %RH (no condensation)			

- 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 2000 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 800 mm/sec or less.
 Note 5. The required suction amount will vary according to the operating conditions and operating environment.

Static loading moment



	(Unit: N·m)		
MY	MP	MR	
1062	1063	934	

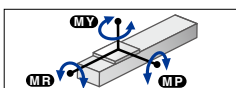
LGFS17L (750W)

Specifications

Applicable motor	750 W			
Repeatability <small>Note 1</small>	±0.01 mm			
Deceleration mechanism	Rolled ball screw ϕ 20 (C7 class)			
Stroke	850 mm to 3000 mm (50 mm pitch)			
Maximum speed <small>Note 2</small>	2400 mm/sec	1200 mm/sec	600 mm/sec	300 mm/sec
Ball screw lead	40 mm	20 mm	10 mm	5 mm
Maximum payload <small>Note 3</small>	Horizontal	80 kg	150 kg	200 kg
	Vertical	12 kg	35 kg	70 kg
Rated Thrust <small>Note 3</small>	320 N	640 N	1280 N	2560 N
Maximum dimensions of cross section of main unit	W 168 mm \times H 105.5 mm			
Overall length Straight	ST + 573.5 mm			
Degree of Cleanliness <small>Note 4</small>	Equivalent to ISO Class 3 (ISO 14644-1)			
Intake air <small>Note 5</small>	115 N ℓ /min			
Using ambient temperature and humidity	0 to 40 °C, 35 to 80 %RH (no condensation)			

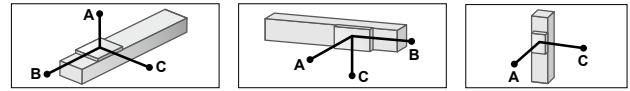
- Note 1. Positioning repeatability in one direction.
 Note 2. When a moving distance is short and depending on an operation condition, it may not reach the maximum speed. If the effective stroke exceeds 2000 mm, the ball screw may resonate. (Critical speed) At this time, make the adjustment to decrease 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 800 mm/sec or less.
 Note 5. The required suction amount will vary according to the operating conditions and operating environment.

Static loading moment



	(Unit: N·m)		
MY	MP	MR	
1062	1063	934	

Allowable overhang Note



LGFS17L-40(400W)

Horizontal installation (Unit: mm)	A	B	C	Wall installation (Unit: mm)	A	B	C	Vertical installation (Unit: mm)	A	C
	10kg	4552	2660		2334	10kg	2364		2610	4491
20kg	2637	1307	1198	20kg	1211	1257	2557	4kg	5285	5285
40kg	1790	631	648	40kg	644	580	1676	6kg	3719	3719

LGFS17L-20(400W)

Horizontal installation (Unit: mm)	A	B	C	Wall installation (Unit: mm)	A	B	C	Vertical installation (Unit: mm)	A	C
	30kg	4027	1182		1432	30kg	1412		1131	3942
50kg	2687	691	849	50kg	817	641	2583	8kg	4231	4231
90kg	1743	364	454	90kg	412	313	1600	12kg	2834	2834

LGFS17L-10(400W)

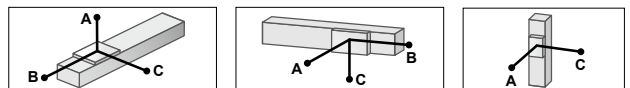
Horizontal installation (Unit: mm)	A	B	C	Wall installation (Unit: mm)	A	B	C	Vertical installation (Unit: mm)	A	C
	50kg	6851	966		1332	50kg	1280		916	6725
100kg	3730	461	637	100kg	576	410	3577	25kg	1957	1957
140kg	2817	316	438	140kg	374	266	2638	35kg	1388	1388

LGFS17L-5(400W)

No settings				No settings					A	C
								10kg	5357	5357
								30kg	1758	1758
								50kg	1038	1038

- 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 1000 mm stroke models.
 Note. When using it suspended from the ceiling, the overhang will be the same as when used horizontally.

Allowable overhang Note



LGFS17L-40(750W)

Horizontal installation (Unit: mm)	A	B	C	Wall installation (Unit: mm)	A	B	C	Vertical installation (Unit: mm)	A	C
	20kg	2128	1307		1125	20kg	1117		1257	2070
50kg	1250	495	488	50kg	473	445	1148	8kg	2414	2414
80kg	1142	312	344	80kg	317	262	995	12kg	1633	1633

LGFS17L-20(750W)

Horizontal installation (Unit: mm)	A	B	C	Wall installation (Unit: mm)	A	B	C	Vertical installation (Unit: mm)	A	C
	50kg	2930	691		856	50kg	828		641	2812
100kg	2040	323	410	100kg	369	272	1826	25kg	1390	1390
150kg	1619	200	257	150kg	207	150	1311	35kg	987	987

LGFS17L-10(750W)

Horizontal installation (Unit: mm)	A	B	C	Wall installation (Unit: mm)	A	B	C	Vertical installation (Unit: mm)	A	C
	100kg	2456	461		627	100kg	565		410	2373
150kg	1756	292	399	150kg	335	242	1654	50kg	949	949
200kg	1395	208	285	200kg	219	157	1270	70kg	668	668

LGFS17L-5(750W)

No settings				No settings					A	C
								40kg	1305	1305
								70kg	728	728
								100kg	497	497

- 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 1000 mm stroke models.
 Note. When using it suspended from the ceiling, the overhang will be the same as when used horizontally.



► The cycle time simulation and service life calculation can be performed easily from our member site.

■ Applicable motor

● Applicable servo motor

Motor specification	Flange size	Wattage	Manufacturer	Model	
Y	□ 60	400W	Tamagawa Seiki	TSM4254N □ □ 00E200	
			Yaskawa Electric Corp.	SGM7J-04	
				SGMJX-04	
			Keyence Corp.	SV- □ 040	
				SV2- □ 040	
		SV3- □ 040			
		500W	□ 60	Mitsubishi Electric Corp.	HG-KR43
					HK-KT43
					HK-MT43
				Fanuc Corp.	βiS1/6000-B
P	□ 60			400W	Omron Electronics
		R88M-1M40030			
		Panasonic Corp.	MSMF042		
			MHMF042		
			MHMG042		
T	□ 80	750W	Tamagawa Seiki	TSM4354N □ □ 00E200	
			Yaskawa Electric Corp.	SGM7J-08	
				SGMJX-08	
			Keyence Corp.	SV □ 075 ^{Note1}	
				SV2 □ 075	
		SV3 □ 075			
		Mitsubishi Electric Corp.	HG-KR73 ^{Note1}		
			HK-KT7M3 ^{Note1}		
			HK-MT7M3 ^{Note1}		
K	□ 80	750W	Omron Electronics	R88M-K75030	
				R88M-1M75030	
			Panasonic Corp.	MSMF082	
				MHMF082	

Note 1. A special shim plate is required when combining with the bending unit.

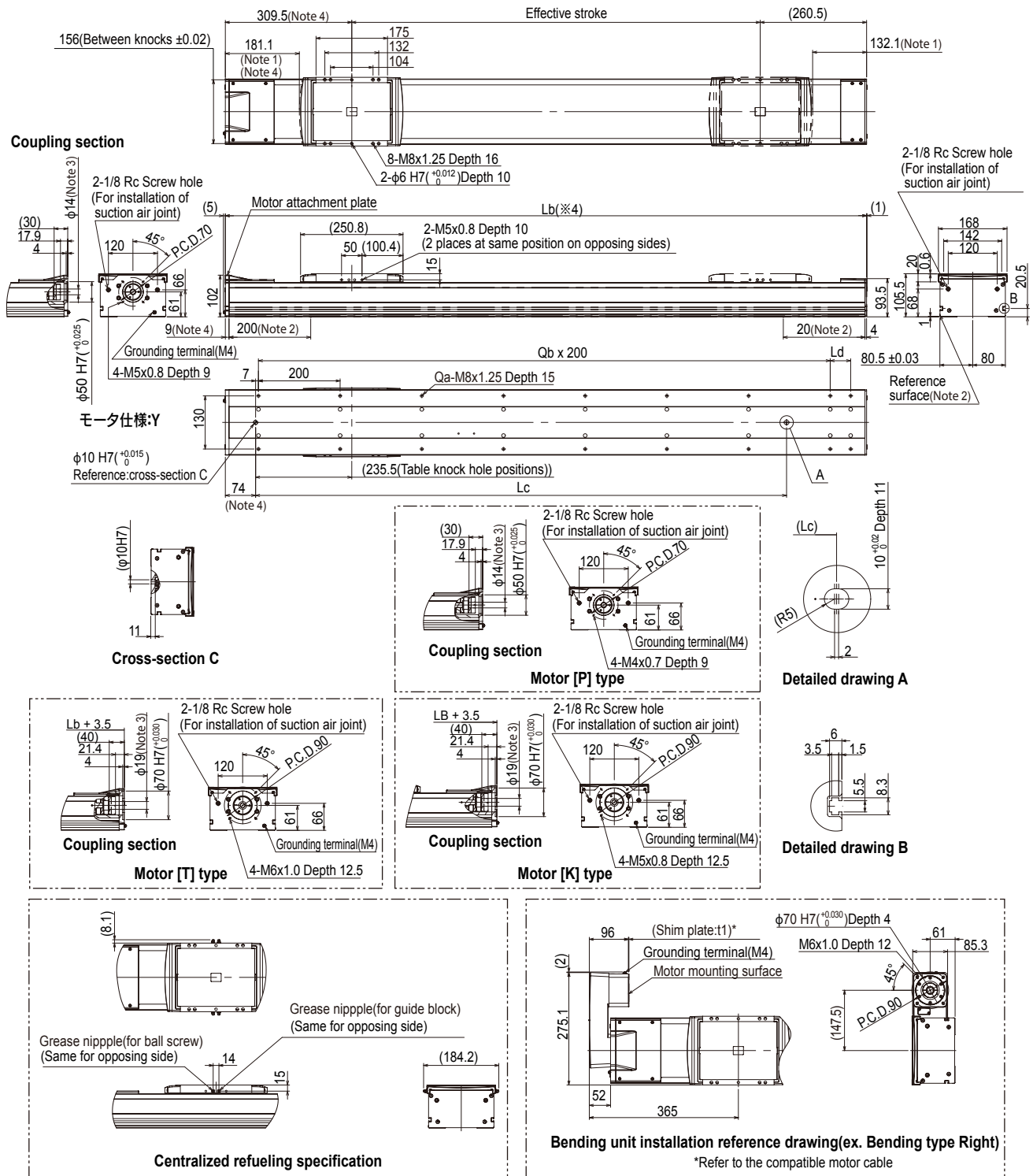
Part number of shim plate
KEX-M2295-00

Note 2. The bending unit can only be installed on the T specification.

Part number of bending unit
KEX-M221M-01 ^{Note 2}

Linear conveyor modules	LCMR200
Single-axis robots	CX
Linear conveyor modules	LCM100
SCARA robots	YK-X
Single-axis robots	Robonity
Linear motor single-axis robots	PHASER
Single-axis robots	FLIP-X
Compact single-axis robots	TRANSERO
Cartesian robots	XY-X
Pick & place robots	YP-X
CLEAN	
CONTROLLER	
INFORMATION	
LBAS	LBAS
LGXS	LBAR
LGBS	LGFS
ABFS	ABAS
AGXS	ABAR
AGBS	AGFS
Option	

LGFS17L



Note 1. Stop positions are determined by the mechanical stoppers at both ends.
 Note 2. When the effective stroke is 2050 mm or more, the reference plane is within 200 mm of the frame end face.
 Note 3. The recommended dimensional tolerances for the applicable shaft diameter are h6 and h7.
 Note 4. For T and K specifications, add «+3.5 mm» to the dimensions listed.
 Note. In the installation tap hole, the length under head <<thickness of stand +15mm or less>> is recommended for the hex socket head bolts <M8×1.25> used to install the main unit.

Effective stroke	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000																																																																																																																																																																																																																																																																
Lb	1420	1470	1520	1570	1620	1670	1720	1770	1820	1870	1920	1970	2020	2070	2120	2170	2220	2270	2320	2370	2420	2470	2520	2570	2620	2670	2720	2770	2820	2870	2920	2970	3020	3070	3120	3170	3220	3270	3320	3370	3420	3470	3520	3570																																																																																																																																																																																																																																																																
Lc	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300																																																																																																																																																																																																																																																																
Ld	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50																																																																																																																																																																																																																																																																
Qa	16	16	16	18	18	18	18	20	20	20	20	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	32	32	32	32	34	34	34	34	36	36	36	36	36	36	38																																																																																																																																																																																																																																																																
Qb	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	16	16	16	17																																																																																																																																																																																																																																																																
Weight (kg)	32.1	33	33.8	34.7	35.5	36.4	37.2	38.1	38.9	39.8	40.6	41.5	42.3	43.2	44	44.9	45.7	46.6	47.4	48.3	49.1	50	50.8	51.6	52.5	53.3	54.2	55	55.9	56.7	57.6	58.4	59.3	60.1	61	61.8	62.7	63.5	64.4	65.2	66.1	66.9	67.8	68.6																																																																																																																																																																																																																																																																
Lead 40	2400																														2280																														2160																														2040																														1920																														1800																																																																																																																																																					
Lead 20	1200																														1140																														1080																														1020																														960																														900																														840																														780																														720																																																											
Maximum speed (mm/sec)	95%																														95%																														90%																														85%																														80%																														75%																														70%																														65%																														60%																																																											
Lead 10	600																														540																														510																														480																														450																														420																														400																														380																														360																														340																													
Lead 5	300																														255																														240																														225																														210																														200																														180																														165																														165																														165																													
Stroke restriction	No stroke restrictions																														No stroke restrictions																														No stroke restrictions																														No stroke restrictions																														No stroke restrictions																														No stroke restrictions																														No stroke restrictions																														No stroke restrictions																														No stroke restrictions																																																											
Installation	To 1200st																														To 1500st																																																																																																																																																																																																																																																																													

- Linear conveyer modules LCMR200
- Single-axis robots GX
- Linear conveyer modules LCM100
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- Single-axis robots Robotomy
- Linear motor PHASER
- Single-axis robots FLIP-X
- single-axis robots TRANSERO
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