





Compatible Controllers/Drivers <For single axis>



LEA Series

With multi-axis calculation

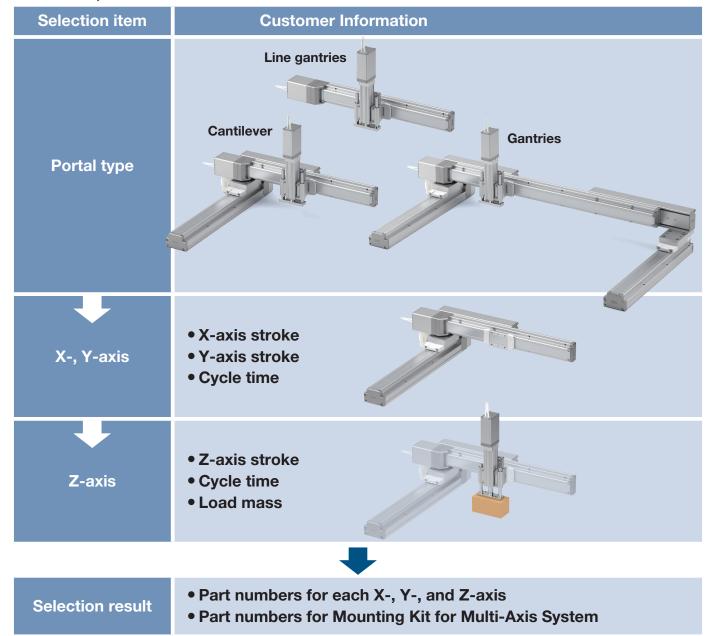
For details: p. 1



Mounting Kit for Multi-Axis System LEA Series

Selection Process

For selection, use the Model Selection Software.



From Selection to Shipment

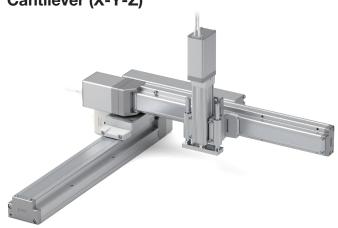


LEA Series X-Y-Z Unit Construction

Line gantries (Y-Z)



Cantilever (X-Y-Z)



Application Examples

			Example 1	Example 2
	Y-axis	Type	LEF16	LEF40
Actuator	1-axis	Stroke [mm]	500 10	1000
	7 ovio	Type	LEYG16	LEYG16
	Z-axis —	Stroke [mm]	100	200

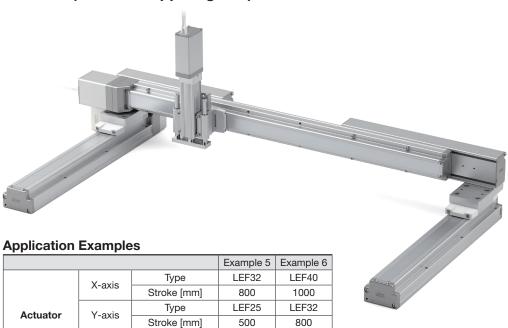
Application Examples

			Example 3	Example 4
Actuator	X-axis Type Stroke [mm]	Type	LEF25	LEF40
		800	1000	
	Y-axis	Type	LEF16	LEF32
	r-axis	Stroke [mm]	500 500	500
	Z-axis Type Stroke [mm]	LEYG16	LEYG25	
		Stroke [mm]	100	300

Gantries (X-Y-Z + Support guide)

Z-axis

Stroke [mm]



LEYG16

100

LEYG25

300

List of Combination Sizes

X-Y axis combination		Y-axis			
		LE(K)F□16	LE(K)F□25	LE(K)F□32	LE(K)FS40
	LE(K)FS16	•			
X-axis	LE(K)FS25	•	•		
A-axis	LE(K)FS32	•	•	•	
	LE(K)FS40	•	•	•	•

Y-Z axis combination		Z-axis	
		LEYG16	LEYG25
	LE(K)F□16	•	
Y-axis	LE(K)F□25	•	•
	LE(K)F□32	•	•
	LE(K)F□40	•	•

Compatible Actuators

X-Y-axis

Ball screw

drive

LEFS

OLEFS Series

Drive method	Motor type	Product no.
		LEFS16□
	Step motor	LEFS25□
	(Servo 24 VDC)	LEFS32□
		LEFS40□
	Servo motor	LEFS16□A
	(24 VDC)	LEFS25□A
	Battery-less	LEFS16□E
	absolute	LEFS25□E
	(Step motor 24 VDC)	LEFS32□E
D-11		LEFS40□E
Ball	High performance (Step motor 24 VDC)	LEFS16□F
00.01		LEFS25□F
		LEFS32□F
		LEFS40□F
	High performance	LEFS16□G
	Battery-less absolute	LEFS25□G
	(Step motor 24 VDC)	LEFS32□G
	*1	LEFS40□G
		LEFS25 [S2/T6/V6]
	AC servo motor (100/200 VAC)	LEFS32 [S3/T7/V7]
	(100,200 VAO)	LEFS40 [S4/T8/V8]

^{*1} Acceleration/deceleration needs to be equal to or less than 3000 [mm/s²].

Z-axis



drive

OLEYG Series

Drive method	Motor type	Product no.
	Step motor	LEYG16□
	(Servo 24 VDC)	LEYG25□
Ball	Battery-less absolute	LEYG16□E
screw	(Step motor 24 VDC)	LEYG25□E
AC servo motor (100/200 VAC)	LEYG25□ [S2/T6/V6]	

OLEFB Series



Drive method	Motor type	Product no.
	Step motor (Servo 24 VDC)	LEFB16
		LEFB25
	(36170 24 700)	LEFB32
	Servo motor (24 VDC)	LEFB16A
Belt		LEFB25A
	Battery-less absolute (Step motor 24 VDC)	LEFB16E
		LEFB25E
		LEFB32E
		LEFB25 [S2/T6/V6]
	AC servo motor (100/200 VAC)	LEFB32 [S3/T7/V7]
	(100/200 VAO)	LEFB40 [S4/T8/V8]

^{*} The LEFB series cannot be used on X-axis.

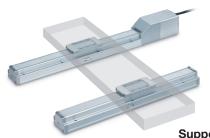
OLEKFS Series



Drive method	Motor type	Product no.	
	Battery-less absolute (Step motor 24	LEKFS16□E	
		LEKFS25□E	
		LEKFS32□E	
	VDC)	LEKFS40□E	
Ball	High performance Battery-less absolute (Step motor 24 VDC)*1	LEKFS25□G	
screw		LEKFS32□G	
		LEKFS40□G	
	40	LEKFS25□ [S2/T6/V6]	
	AC servo motor (100/200 VAC)	LEKFS32 [S3/T7/V7]	
		LEKFS40□ [S4/T8/V8]	
*1 Acce	*1 Acceleration/deceleration needs to be equal to or		

^{*1} Acceleration/deceleration needs to be equal to d less than 3000 [mm/s²].

[Support guide] for gantry



LEFG Series [Support guide]

Type	Series
Support guide for ball screw drive actuator	LEFG16-S
	LEFG25-S
	LEFG32-S
	LEFG40-S

LEFG Support guide for ball screw drive actuator

Controllers for SMC Actuators

Step Motor Controller Battery-less Absolute (Step Motor 24 VDC)















- Direct communication with the control and transfer of numerical data due to communication with a high transfer rate (10/100 Mbps)
- Dual-port connection (IN and OUT) makes it possible to construct linear and DLR topologies:

 Less cabling

 Redundant communication in DLR

 Easy to identify the splitting point
- Parametrization using software or teaching box

AC Servo Motor Drivers

AC Servo Motor







LECSB-T



LECSC-T



LECSS-T



LECYM MECHATROLINK-I



4

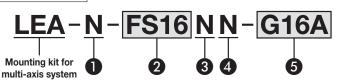
Electric Actuator Mounting Kit for Multi-Axis System

LEA Series



How to Order







Symbol	Model
N	None

2 Y-axis

Symbol	Model and motor type
FS16	LEFS16 / LEKFS16 / LEFB16 [_/A/E]
FS25	LEFS25 / LEKFS25 / LEFB25 [_/A/E/S2/T6/V6]
FS32	LEFS32 / LEKFS32 / LEFB32 [_/E/S3/T7/V7]
FS40	LEFS40 / LEKFS40 / LEFB40 [S4/T8/V8]

6 Z-axis

4 Y-axis bracket		
Symbol	Model	
N	None	

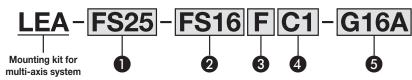
Symbol	Model	Stroke
G16A	LEYG16	30 to 200
G25A	LEYG25	30
G25B	LETG25	50 to 300

Y-axis Z-axis

3 Y-axis mounting direction

Symbol	Operating range
N	None
N	None

Cantilever





Symbol	Model
FS16	LEFS16
KS16	LEKFS16
FS25	LEFS25 / LEKFS25
FS32	LEFS32 / LEKFS32
FS40	LEFS40 / LEKFS40

2 Y-axis

Symbol	Model and motor type
FS16	LEFS16
FS25	LEFS25
FS32	LEFS32
FS40	LEFS40
B16T	LEFB16 [_/A/E]
B25T	LEFB25 [_/A/E]
B25S	LEFB25 [S2/T6/V6]
B32T	LEFB32 [_/E]
B32S	LEFB32 [S3/T7/V7]

The LEKFS cannot be used for cantilevers.

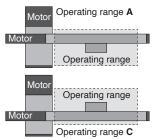
5 Z-axis

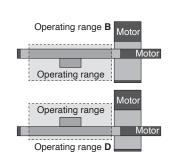
<u> </u>				
Symbol	Model	Stroke		
N	None			
G16A	LEYG16	30 to 200		
G25A	15,005	30		
G25B	LEYG25	50 to 300		

3 Y-axis mounting direction

Symbol	Operating range
F	A, D
R	B, C

 Refer to the figures on the right for the operating range.





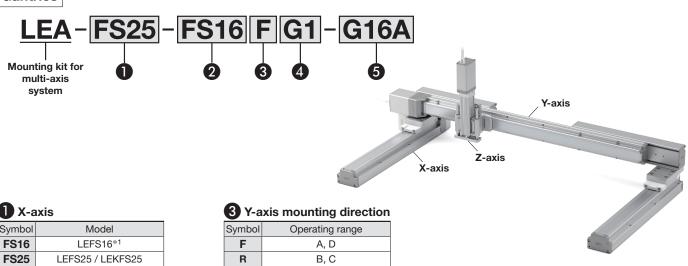
Y-axis

4 Y-axis bracket

47 1-a	ixis bracket										
	2 Y-axis	3 Y-	axis moun	ting directi	on: F	3 Y-	axis moun	ting directi	on: R		
Symbol	Stroke	1 X-axis: FS16 KS16	1 X-axis: FS25	1 X-axis: FS32	1 X-axis: FS40	X-axis: FS16 KS16	1 X-axis: FS25	1 X-axis: FS32	1 X-axis: FS40		
FS16	50	C	1	С	3	С	5	C 7			
F510	100 to 500	C	2	С	4	C6		C8			
FS25	50	C1		C3			C5	C	7		
F323	100 to 800	C2		C4			C6	C	8		
FS32	50 to 1000			C	1			C2			
FS40	150 to 1200				C1				C2		
B16T	300 to 1000	C	71	С	2	C3		C4			
B25T	300 to 2000		C1	C	C2		C2 C3		C3	C4	
B25S	300 to 2000		C5	C6		C7		C8			
B32T	300 to 2000			C1				C2			
B32S	300 to 2500			С	3			С	4		

How to Order





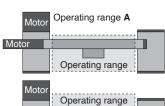
1 X-axis

Symbol	Model
FS16	LEFS16*1
FS25	LEFS25 / LEKFS25
FS32	LEFS32 / LEKFS32
FS40	LEFS40 / LEKFS40

*1 Not compatible with LEKFS16

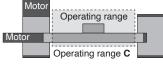
2 Y-axis

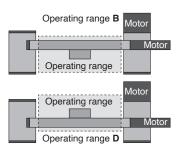
Symbol	Model and motor type
FS16	LEFS16
KS16	LEKFS16
FS25	LEFS25 / LEKFS25
FS32	LEFS32 / LEKFS32
FS40	LEFS40 / LEKFS40
B16T	LEFB16 [_/A/E]
B25T	LEFB25 [_/A/E]
B25S	LEFB25 [S2/T6/V6]
B32T	LEFB32 [_/E]
B32S	LEFB32 [S3/T7/V7]



Refer to the figures below for the

operating range.





5 Z-axis

Symbol	Model	Stroke			
N	No	one			
G16A	LEYG16	30 to 200			
G25A	LFYG25	30			
G25B	LETG25	50 to 300			

4 Y-axis bracket

_		A V ov		tina dira	otion, E	A V av	io moun	ting dire	otion, D	
9 Y	-axis		_		_	_	_	ting dire	_	
Cumbal	*1	O viou	O v aviau	O O Ovice	O viou	O v aviau	O viou	X-axis:	O V aviau	
Symbol	Stroke	FS16	FS25	FS32	FS40	FS16	FS25	FS32	FS40	
	300	1010	G		1 040	1010			1040	
	350			i2		G3 G4				
FS16	400									
KS16	450		G	i1			G3 G4			
	500		G					i3		
	300				i1	<u> </u>	1		i3	
	350	/	G1			1 /	G3			
	400	/	G2	G	i2	/	G4	∣ G	i4	
	450	/	G1	G	i1	1 /	G3	G	i3	
	500	/	G2		2	1 /	G4		4	
FS25	550*2	/			11	1 /			3	
	600	/	G1			1 /	G3			
	650*2	/	G2			/	G4	1 _		
	700	/	G1	٦	i2	/	G3	ا	i4	
	750*2	/	G2			/	G4	1		
	800	/	G1	G	i1	1	G3	G	i3	
	350			6	4		/	G3		
	400			G1			/		io .	
	450			G2				G4		
	500			G1				G3		
	550*2		/				/			
	600			G2				G4		
FS32	650*2			G1				G3		
	700	/				/				
	750*2			G2 G1		/		G4		
	800							G3		
	850*2									
	900 950*2	/			G2				G4	
	1000	/		G1		/		G3		
	350	/			1	 				
	400			/	G1			/	G3	
	450				G2				G4	
	500									
	550*2				G1				G3	
	600		,	/	G2			/	G4	
	650*2		/							
	700				G1		/		G3	
FS40	750*2				G2				G4	
	800				04	1				
	850*2		/		G1		/		G3	
	900				G2] /			G4	
	950*2	/				/				
	1000				G1				G3	
	1100					/				
	1200				G2	/			G4	
. 4 ^ _ 4		مسقم ملقان	–		منا ممما	–			ممالة مالة:	

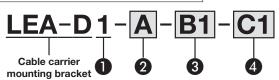
^{*1} Actuators with strokes less than those listed cannot be used with the

gantry.
*2 Strokes available only for the LEFS series (LEKFS is a non-standard stroke)

0 Y	-axis	Q Y-ax	is moun	tina dire	ction: F	A Y-ax	is moun	tina dire	ction: R													
9 1	unio	0	0	0	0	0	0	0	0													
Symbol	*1	_	X-axis:		X-axis:	_	X-axis:		X-axis:													
	Stroke	FS16	FS25	FS32	FS40	FS16	FS25	FS32	FS40													
	500	G		G	1		i3		i3													
	600	G					i4															
DAGE	700			G	2			G	i4													
B16T	800	G	17	G	1	٦	i3	G	i3													
	900	G	G2				i4															
	1000	G		G	2	G	i3	G	i4													
	500	Λ	G2	G	2	/	G4	G	i4													
	600	/	G1			/	G3															
	700	/	G2			/	G4															
	800	/			2	/			i4													
B25T	900	/	G1	G		/	G3		13													
	1000	/	00	G	2	/	C4	G	i4													
	1200 1500	/	G2			/	G4															
	1800	/	G1	G	2	/	G3	G	i4													
	2000	/	G2		2	/	G4		-													
	400	1	G1	G	1	V	G3	G	i3													
	500		G2				G4															
	600		G1	G	2		G3	G	i4													
	700																					
	800		G2	G	i2		G4	G	i4													
	900		G1	G	1		G3	G	i3													
	1000	1 /	G2	G	i2	1 /	G4	G	i4													
B25S	1100		G1	G	1		G3	G	i3													
	1200		G2				G4															
	1300		G1		2		G3		i4													
	1400			G					13													
	1500		G2		2		G4		14													
	1600		G1	G	i <u>1</u>		G3	G	i3													
	1700			G2				G4		4												
	1800 1900			/	/	1/			/	1/	1/	/					G1	G	i2	- /	G3	G
	2000		G2 G2		/	G4	G	ì4														
	500		/	G		Y	<u> </u>		i3													
	600		/		2		/		i4													
	700			G1					i3													
	800				2			G4														
B32T	900		/	G	1		/	G	i3													
D3∠1	1000	/		G	2	/	,	0	i4													
	1200			G2																		
	1500			G	i 1			G	i3													
	1800			G	2			G	i4													
	2000	/				/																
	500			G			/		13													
	600 700			G	i2				i4 i3													
	800				i2				i4													
	900			G					i3													
	1000				2				i4													
	1100			G					i3													
	1200				2				i4													
B32S	1300		/	G			/		13													
	1400	/		G	2	/		G	i4													
	1500			G					i3													
	1600				2				ì4													
	1700			G					13													
	1800				2				i4													
	1900			G					13													
	2000				2				i4													
	2500	V		G	1	V		G	i3													

How to Order



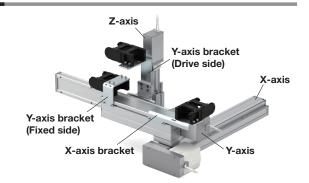


Compatible manufacturer and series

Symbol	Manufacturer	Series
1	igus	E4.28

2 X-axis bracket

Symbol	Yes/No
N	No
Α	Yes



Y-axis bracket (Fixed side)

	,							
Symbol	Y-axis							
	FS16/KS16/B16T	FS25/B25T/B25S	FS32/B32T/B32S	FS40				
N	_	_	_	_				
B1	•	_	_	_				
B2	_	•	•	•				

4 Y-axis bracket (Drive side)

Symbol	Y-axis				
	FS16/KS16/B16T	FS25/B25T/B25S	FS32/B32T/B32S	FS40	
N	_	_	_	_	
C1	•	•	_	_	
C2	_	_	•	•	

Cable Carrier Design Support

The cable carrier mounting bracket does not include a cable carrier, so please prepare it yourself.

Please use the igus E4.28 series energy chains for the cable carrier.

https://www.igus.co.jp

For X-axis: E4.28.040.R or E4.28.050.R

For Y-axis: E4.28.040.R

For the length and number of links of the cable carrier, please check the igus website.

For the offset amount required for selection, please refer to the following.

About the offset amount of the fixed end
 The offset amount of the X-axis depends on the device
 to be installed, so please select it yourself.

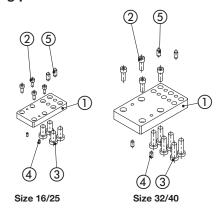
 Calculate the offset amount of the Y-axis using the
 table on the right.

X-axis size	Y-axis size	F	G
16		142.5	38.5 + (Stroke + 80)
25	16	142.5	2
32	10	118.5	38.5 + (Stroke + 80)
40		110.5	2
25	25	167.5	$38.5 + \frac{\text{(Stroke} + 110)}{2}$
32	25	143.5	38.5 + (Stroke + 110)
40		143.5	2
32	32	200.5	38.5 + (Stroke + 130)
40	32	200.5	2
40	40	194.5	38.5 + (Stroke + 178) 2

* Refer to the operation manual for assembly procedures.

Component Parts

1) X fixing plate

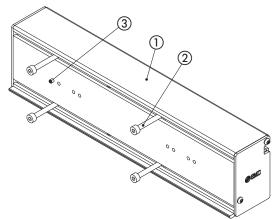


Parts List

No.	Description	Qty.	X-axis*1
1	X fixing plate	1	
2	Hexagon socket head cap screw		
3	Hexagon socket thin head cap	4	FS16/KS16 FS25
	301644	6	FS32/FS40
4	Parallel pin	2	
5	Parallel pin	2	

^{*1} Refer to the "How to Order" section.

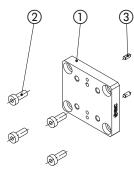
2) Boom profile



Parts List

No.	Description	Qty.
1	Boom profile	1
2	Hexagon socket head cap screw	4
3	Parallel pin	1

3) Y fixing plate

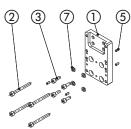


Parts List

Ī	No.	Description	Qty.	Y-axis*1
	1	Y fixing plate	1	F005 /F000 /F0 40 /P05T/
	2	Hexagon socket thin head cap screw	4	FS25/FS32/FS40/B25T/ B25S/B32T/B32S/B40S
	3	Parallel pin	2	B230/B021/B020/B400

^{*1} Refer to the "How to Order" section.

4) Z adapter plate



Parts List

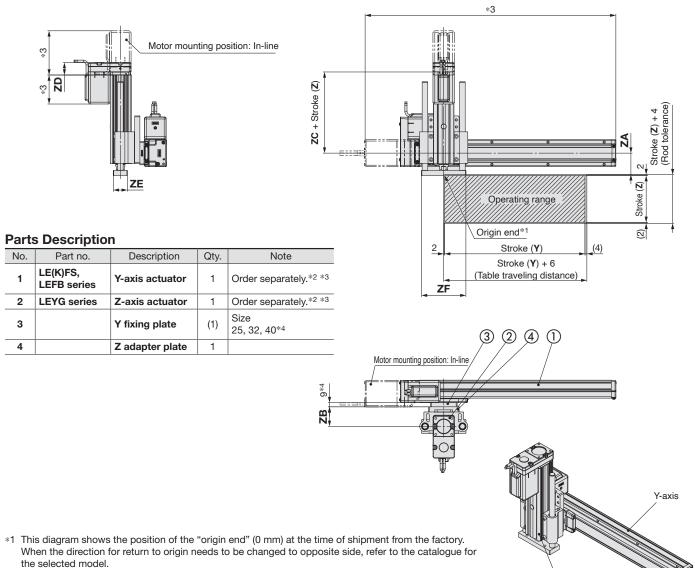
No.	Description	Qty.	Y-axis*1
1	Z adapter plate	1	
2	Hexagon socket head cap screw	4	
	Hexagon socket head cap screw	4	FS16/KS16/B16T
3	Hexagon socket thin head cap screw	4	FS25/FS32/FS40/B25T/ B25S/B32T/B32S
5	Parallel pin	4	FS16/KS16/B16T
		2	FS25/FS32/FS40/B25T/ B25S/B32T/B32S/B40S
		_	FS16/KS16/B16T
6	Parallel pin	2	FS25/FS32/FS40/B25T/ B25S/B32T/B32S/B40S
7		4	FS16/KS16/B16T
	Flat washer	_	FS25/FS32/FS40/B25T/ B25S/B32T/B32S/B40S

^{*1} Refer to the "How to Order" section.



LEA Series

Dimensions: Line Gantries



- *2 This product does not include an actuator. Order it separately.
- *3 For the actuator dimensions, refer to the catalogue for the selected model.
- *4 For Y-axis size 16, ③ Y fixing plate is not used.
- * For LE(K)FS25 (motor mounting position: parallel) and LE(K)FS32 (motor mounting position: parallel), a "table spacer" is attached to the table mounting surface. It must be removed when assembling.
- * Select each axis using the Model Selection Software.

Y-Z Axis Combinations

Y-axis size	Z-axis size		
r-axis size	16	25	
16	0	_	
25	0	0	
32	0	0	
40	0	0	

Z-Axis Dimensions

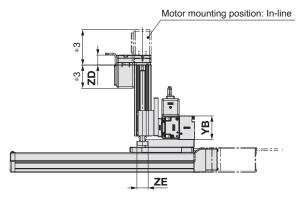
			ZC Z-axis stroke				
Z-axis size	ZA	ZB			ZD	ZE	ZF
			100 or less	105 or more			
16	37	35.8	47.5	67.5	22.5	25	79
25	46	41.8	67	92	26.5	30	95

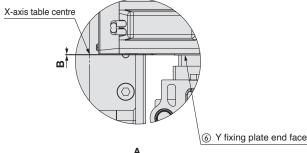
Z-axis



Dimensions: Cantilever (Operating range A)

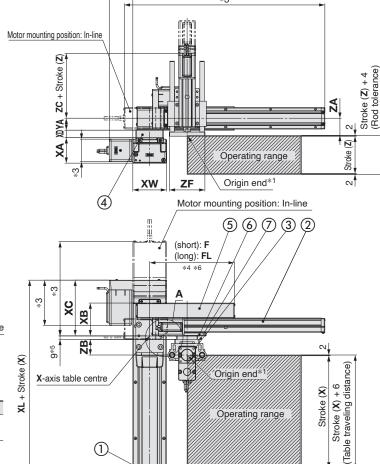
When using operating range B, please reverse the orientation of the Y-axis actuator.





Parts Description

raits bescription							
No.	Part no.	Description	Qty.	Note			
1	LE(K)FS series	X-axis actuator	(1)	Order separately.*2 *3			
2	LE(K)FS, LEFB series	Y-axis actuator	(1)	Order separately.*2 *3			
3	LEYG series	Z-axis actuator	(1)	Order separately.*2 *3			
4		X fixing plate	1				
5		Boom profile	1				
6		Y fixing plate	(1)	Size 25, 32, 40*5			
7		Z adapter plate	1				



Operating range

Stroke (Y)

Stroke (Y) + 6 (Table traveling distance)

(C-XW/2)

X-axis

4

Y-axis

(4)

Z-axis

- *1 This diagram shows the position of the "origin end" (0 mm) at the time of shipment from the factory. When the direction for return to origin needs to be changed to opposite side, refer to the catalogue for the selected model.
- *2 This product does not include an actuator. Order it separately.
- *3 For the actuator dimensions, refer to the catalogue for the selected model.
- *4 When the Y-axis stroke is 50, please note that (5) the boom profile will be longer than the Y-axis actuator.
- *5 For shaft size 16, 6 the Y fixing plate is not used.
- *6 F (short) and FL (long) vary depending on the selected model.
- * For LE(K)FS25□G (motor mounting position: parallel) and LE(K)FS32 (motor mounting position: parallel), a "table spacer" is attached to the table mounting surface. It must be removed when assembling.
- * Select each axis using the Model Selection Software.

X-Y Axis Combination Dimensions

X-axis size	Y-axis size	В	С	F	FL				
16	16	18.5	76	216	_				
25	16	5	76	216	_				
25	25	15	88	238	_				
	16	2	88	204	248*2				
32	25	12	100	226	306*2				
	32	27	114	286	_				
	16	-9.5* ¹	88	204	248*2				
40	25	0.5	100	226	306*2				
40	32	15.5	114	286	_				
	40	24.5	114	257	_				

^{*1} Represents the opposite direction

X-Axis Dimensions

A Axio Billicilololio										
X-axis size	XA	XB	XC	XD	XL	XW				
16	40 (43.5)*3	59.5	66.5	10	116.5	40				
25	48	73	92.5	12	160.5	58				
32	60	76	117	16	195	70				
40	68	87.5	148.4	20	253.4	90				

(1)

Y-Axis Dimensions

1 7 Kilo Billiolioloi								
Y-axis size	YA	YB						
16	22	44						
25	32	63						
32	38	75						
40	18	95						

Z-Axis Dimensions

Z-axis size ZA ZI			Z	С			
		ZB	Z-axis stroke		ZD	ZE	ZF
SIZE			100 or less	105 or more			
16	37	35.8	47.5	67.5	22.5	25	79
25	46	41.8	67	92	26.5	30	95

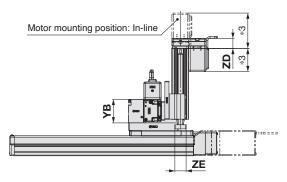


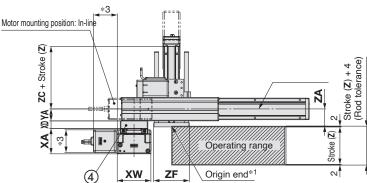
^{*2} For Y-axis LEFB

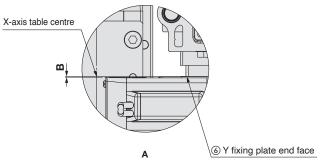
^{*3} For LEKFS16

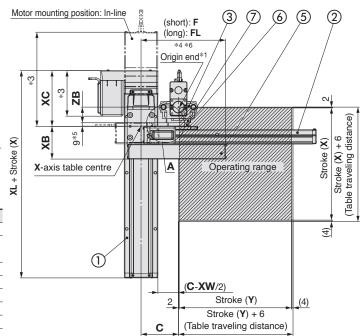
Dimensions: Cantilever (Operating range C)

When using operating range D, please reverse the orientation of the Y-axis actuator.









X-axis

Parts Description

i di c	Tures Description											
No.	Part no.	Description	Qty.	Note								
1	LE(K)FS series	X-axis actuator	(1)	Order separately.*2 *3								
2	LE(K)FS, LEFB series	Y-axis actuator	(1)	Order separately.*2 *3								
3	LEYG series	Z-axis actuator	(1)	Order separately.*2 *3								
4		X fixing plate	1									
5		Boom profile	1									
6		Y fixing plate	(1)	Size 25, 32, 40*5								
7		Z adapter plate	1									

- *1 This diagram shows the position of the "origin end" (0 mm) at the time of shipment from the factory. When the direction for return to origin needs to be changed to opposite side, refer to the catalogue for the selected model.
- *2 This product does not include an actuator. Order it separately.
- *3 For the actuator dimensions, refer to the catalogue for the selected model.
- *4 When the Y-axis stroke is 50, please note that (5) the boom profile will be longer than the Y-axis actuator.
- *5 For shaft size 16, 6 the Y fixing plate is not used.
- *6 F (short) and FL (long) vary depending on the selected model.
- * For LE(K)FS25□G (motor mounting position: parallel) and LE(K)FS32 (motor mounting position: parallel), a "table spacer" is attached to the table mounting surface. It must be removed when assembling.
- * Select each axis using the Model Selection Software.

X-Axis Dimensions

X-Y Axis Combination Dimensions										
X-axis size	Y-axis size	В	С	F	FL					
16	16	18.5	76	216	_					
25	16	5	76	216	_					
25	25	15	88	238	_					
	16	2	88	204	248*2					
32	25	12	100	226	306*2					
	32	27	114	286	_					
	16	-9.5* ¹	88	204	248*2					
40	25	0.5	100	226	306*2					
	32	15.5	114	286	_					
	40	24.5	114	257	_					

^{*1} Represents the opposite direction

V-WIS	A-AXIS DITTELISIONS											
X-axis size	XA	XB	XC	XD	XL	XW						
16	40 (43.5)*3	59.5	66.5	10	116.5	40						
25	48	73	92.5	12	160.5	58						
32	60	76	117	16	195	70						
40	68	87.5	148.4	20	253.4	90						

^{*3} For LEKFS16

Y-axis size	YA	YB
16	22	44
25	32	63
32	38	75
40	48	95

Y-Axis Dimensions Z-Axis Dimensions

7 ovio			Z	С			
Z-axis size	ZA	ZB	Z-axis	stroke	ZD	ZE	ZF
SIZE			100 or less	105 or more			
16	37	35.8	47.5	67.5	22.5	25	79
25	46	41.8	67	92	26.5	30	95

7-axis

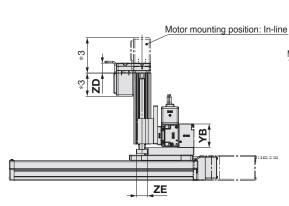
Y-axis

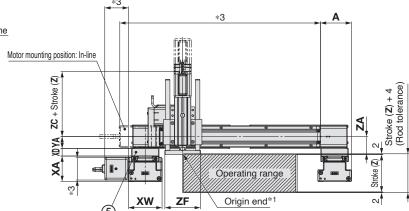


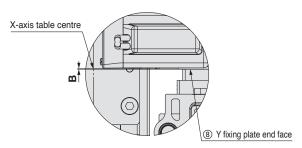
^{*2} For Y-axis LEFB

Dimensions: Gantries (Operating range A)

When using operating range B, please reverse the orientation of the Y-axis actuator.



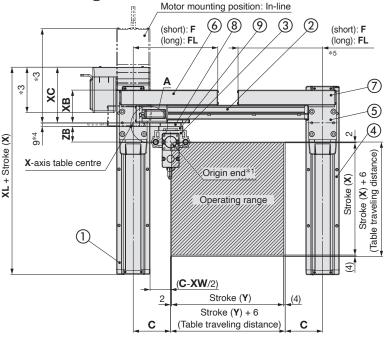




A (2:3)

Parts Description

No.	Part no.	Description	Qty.	Note
1	LE(K)FS series	X-axis actuator	(1)	Order separately.*2 *3
2	LE(K)FS, LEFB series	Y-axis actuator	(1)	Order separately.*2 *3
3	LEYG series	Z-axis actuator	(1)	Order separately.*2 *3
4	LEFG series	X-axis support guide	(1)	Order separately.*2 *3
5		X fixing plate	2	
6		Boom profile	1	
7		Boom profile	1	
8		Y fixing plate	(1)	Size 25, 32, 40*4
9		Z adapter plate	1	



X-axis

- *1 This diagram shows the position of the "origin end" (0 mm) at the time of shipment from the factory. When the direction for return to origin needs to be changed to opposite side, refer to the catalogue for the selected model.
- *2 This product does not include an actuator. Order it separately.
- *3 For the actuator dimensions, refer to the catalogue for the selected model.
- *4 For Y-axis size 16, ® Y fixing plate is not used.
- *5 F (short) and FL (long) vary depending on the selected model.
- * For LE(K)FS25 G (motor mounting position: parallel) and LE(K)FS32 (motor mounting position: parallel), a "table spacer" is attached to the table mounting surface. It must be removed when assembling.
- * Select each axis using the Model Selection Software.

X-Y Axis Combination Dimensions

Vavia	V avia		A Y-axis actuator					
X-axis size	y-axis size	Y			В	С	F	FL
SIZE	SIZE	LE(K)FS	LEFB	LEFB (AC servo)				
16	16	52	-3*1	_	18.5	76	216	260
25	16	61	6	_	5	76	216	260
25	25	55	-2*1	-2*1	15	88	238	318
	16	79	24	_	2	88	204	248
32	25	73	16	16	12	100	226	306
	32	77	18	23	27	114	286	376
	16	89	34	_	-9.5* ¹	88	204	248
40	25	83	26	26	0.5	100	226	306
40	32	87	28	33	15.5	114	286	376
	40	60	_	_	24.5	114	257	307

^{*1} Represents the opposite direction

X-Axis Dimensions

X-axis size	XA	ХВ	XC	XD	XL	XW
16	40	59.5	66.5	10	116.5	40
25	48	73	92.5	12	160.5	58
32	60	76	117	16	195	70
40	68	87.5	148.4	20	253.4	90

I-AXIS DIIIIEIISIUIIS								
Y-axis size	YA	YB						
16	22	44						
25	32	63						
32	38	75						
40	48	95						

Y-Axis Dimensions Z-Axis Dimensions

7			Z	С			
Z-axis size	ZA	ZB	Z-axis stroke		ZD	ZE	ZF
3126			100 or less	105 or more			
16	37	35.8	47.5	67.5	22.5	25	79
25	46	41.8	67	92	26.5	30	95

Z-axis



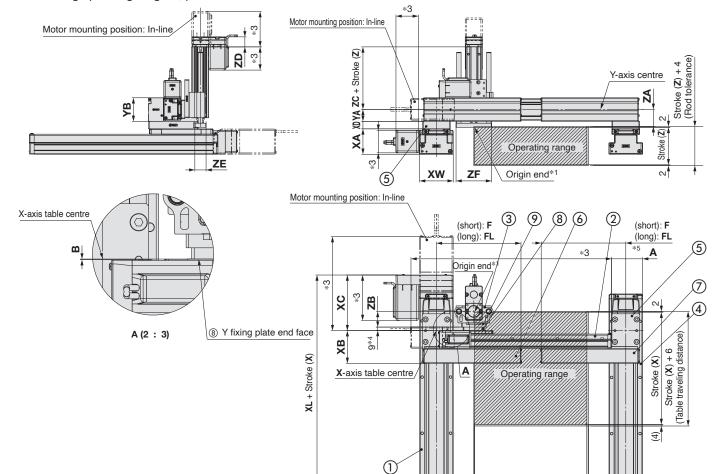
Y-axis

Support

LEA Series

Dimensions: Gantries (Operating range C)

When using operating range D, please reverse the orientation of the Y-axis actuator.



- *1 This diagram shows the position of the "origin end" (0 mm) at the time of shipment from the factory. When the direction for return to origin needs to be changed to opposite side, refer to the catalogue for the selected model.
- *2 This product does not include an actuator. Order it separately.
- *3 For the actuator dimensions, refer to the catalogue for the selected model.
- *4 For Y-axis size 16, (8) Y fixing plate is not used.
- *5 F (short) and FL (long) vary depending on the selected model.
- * For LE(K)FS25□G (motor mounting position: parallel) and LE(K)FS32 (motor mounting position: parallel), a "table spacer" is attached to the table mounting surface. It must be removed when assembling.
- * Select each axis using the Model Selection Software.

X-Y Axis Combination Dimensions

V avia	Y-axis size	Α						
size		Y	-axis a	ctuator	В	С	F	FL
		LE(K)FS	LEFB	LEFB (AC servo)				
16	16	52 -3*1		_	18.5	76	216	260
25	16	61	6	_	5	76	216	260
	25	55	-2*1	-2*1	15	88	238	318
	16	79	24	_	2	88	204	248
32	25	73	16	16	12	100	226	306
	32	77	18	23	27	114	286	376
	16	89	34	_	-9.5* ¹	88	204	248
40	25	83	26	26	0.5	100	226	306
	32	87	28	33	15.5	114	286	376
	40	60	_	_	24.5	114	257	307

^{*1} Represents the opposite direction

X-Axis Dimensions

X-axis size	XA	XA XB XC		XD	XL	XW			
16	40	59.5	66.5	10	116.5	40			
25	48	73	92.5	12	160.5	58			
32	60	76	117	16	195	70			
40	68	87.5	148.4	20	253.4	90			

(C-XW/2)

X-axis

2

Stroke (Y)

Stroke (Y) + 6 (Table traveling distance) (4)

Z-axis

Support

Y-axis

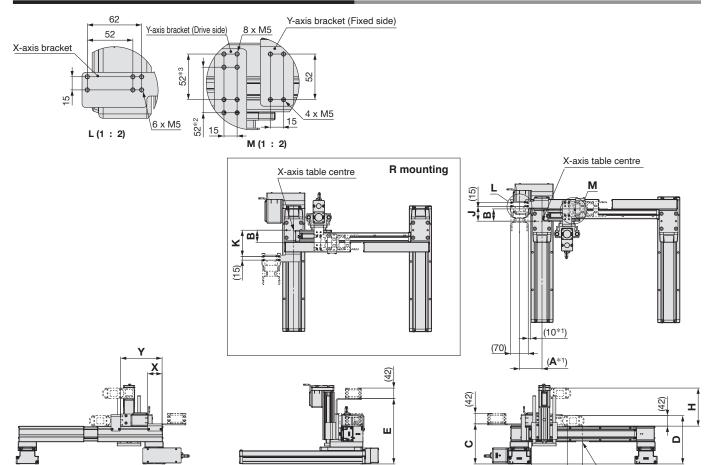
	I-AXIS DIIIICIISIOIIS										
Ī	Y-axis size	YA	YB								
	16	22	44								
ĺ	25	32	63								
	32	38	75								
ı	40	48	95								

Y-Axis Dimensions Z-Axis Dimensions

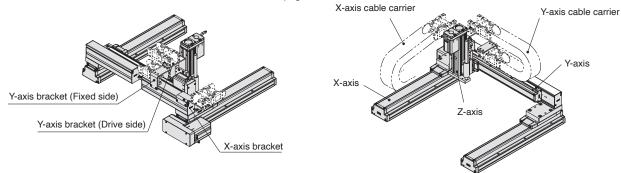
Τ.	7			Z	С			
Z-axis size		ZA	ZB	Z-axis stroke		ZD	ZE	ZF
				100 or less	105 or more			
_	16	37	35.8	47.5	67.5	22.5	25	79
	25	46	41.8	67	92	26.5	30	95



Dimensions: Cable Carrier Mounting Bracket



- *1 This mounting dimension is the recommended value when using the energy chain (igus GmbH) E4.28.050.R.0 for the X-axis and E4.28.040.055.0 for the Y-axis.
- *2 Y-axis size: The mounting position for 16 and 32.
- *3 Y-axis size: The mounting position for 25 and 40.
- * This product does not include an actuator, mounting kit for multi-axis system, and cable carrier. Order them separately.
- * For the Y-axis size 16, a spacer should be used for mounting the Y-axis bracket (fixed side).
- * The bending radius of the X-axis cable carrier: R should be selected by the customer.
- * For the calculation of the number of links of the cable carrier, refer to page 9.



X-Y Axis Mounting Dimensions

A-1 Axis Modificing Difficultions											
Manufacturer	Series	X-axis size	Y-axis size	A *1	В	С	D	E	X *1	Y *1	Н
		16	16	65	25	103	140	213	71	144	161
		25	16	74	38.5	113	150	223	62	144	161
		25	25		34.5	132	169	233	02	166	152
	E4.28	E4.28 32	16	80	41.5	129	166	239	68	144	161
iaua			25		37.5	148	185	249		166	152
igus			32		37.5	160	197	271		227	162
			16		53	141	178	251	58	144	161
			25	90	49	160	197	261	58	166	152
			32	90	49	172	209	283	58	227	162
			40		49	192	229	293	63	202	152

Y stroke centre

G

Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "Caution," "Warning" or "Danger." They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC) 1), and other safety regulations.

♠ Danger:

Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious

Marning:

Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious

Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate

1) ISO 4414: Pneumatic fluid power - General rules and safety requirements for systems and their components.

ISO 4413: Hydraulic fluid power - General rules and safety requirements for systems and their components.

IEC 60204-1: Safety of machinery - Electrical equipment of machines. (Part 1: General requirements)

ISO 10218-1: Robots and robotic devices - Safety requirements for industrial robots - Part 1: Robots.

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalogue information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

- 3. Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.
 - 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
 - 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
 - 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.
- 4. Our products cannot be used beyond their specifications. Our products are not developed, designed, and manufactured to be used under the following conditions or environments. Use under such conditions or environments is not covered.
 - 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
 - 2. Use for nuclear power, railways, aviation, space equipment, ships, vehicles, military application, equipment affecting human life, body, and property, fuel equipment, entertainment equipment, emergency shut-off circuits, press clutches, brake circuits, safety equipment, etc., and use for applications that do not conform to standard specifications such as catalogues and operation manuals.
 - 3. Use for interlock circuits, except for use with double interlock such as installing a mechanical protection function in case of failure. Please periodically inspect the product to confirm that the product is operating properly.

We develop, design, and manufacture our products to be used for automatic control equipment, and provide them for peaceful use in manufacturing industries.

Use in non-manufacturing industries is not covered.

Products we manufacture and sell cannot be used for the purpose of transactions or certification specified in the Measurement Act.

The new Measurement Act prohibits use of any unit other than SI units in Japan.

Limited warranty and **Disclaimer/Compliance** Requirements

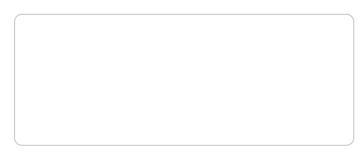
The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements". Read and accept them before using the product.

Limited warranty and Disclaimer

- 1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first. 2) Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales
- 2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
- 3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogue for the particular products.
- 2) Vacuum pads are excluded from this 1 year warranty. A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited

Compliance Requirements

- 1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- 2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed



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