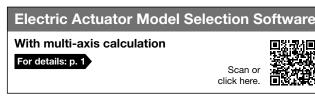






# Compatible Controllers/Drivers <For single axis>



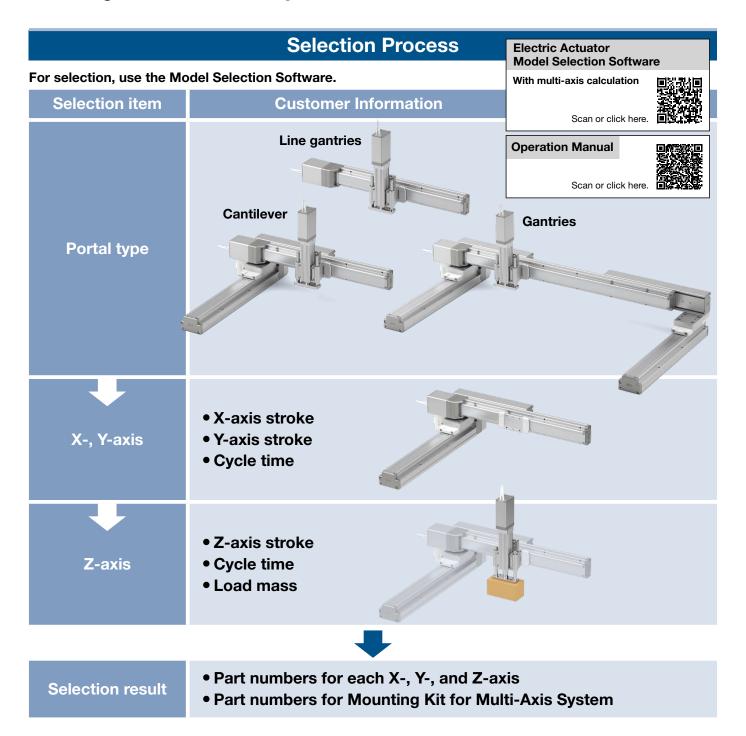








# Mounting Kit for Multi-Axis System LEA Series



# **From Selection to Shipment**



\* Order the actuator separately.

1

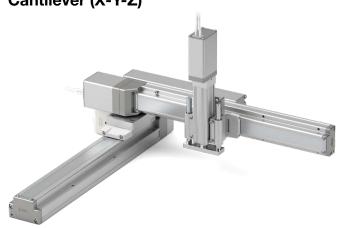


# LEA Series X-Y-Z Unit Construction

# Line gantries (Y-Z)



# Cantilever (X-Y-Z)



# **Application Examples**

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

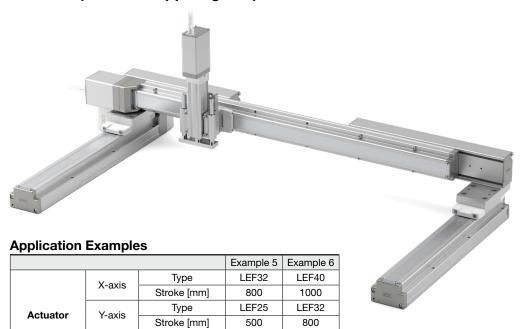
# **Application Examples**

			Example 3	Example 4
	X-axis	Type	LEF25	LEF40
	A-axis	Stroke [mm]	800	1000
Actuator	Y-axis	Type	LEF16	LEF32
Actuator	r-axis	Stroke [mm]	500	500
	I Z-axis <del>I                                   </del>	Туре	LEYG16	LEYG25
		Stroke [mm]	100	300

# **Gantries (X-Y-Z + Support guide)**

Z-axis

Stroke [mm]



LEYG16

100

LEYG25

300

# **List of Combination Sizes**

V V av	kis combination		Y-a	axis	
A-1 a	KIS COMBINATION	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	
1-Z ax	is combination	LEYG16	LEYG25
	LE(K)F□16	•	
Y-axis	LE(K)F□25	•	•
Y-axis	LE(K)F□32	•	•
	LE(K)F□40	•	•

# **Compatible Actuators**

# X-Y-axis

# LEFS Ball screw drive

# **OLEFS Series**

Drive method	Motor type	Product no.	Web
		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	LEFS32□E	
Ball	VDC)	LEFS40□E	
screw	High performance	LEFS16□F	
		LEFS25□F	
	(Step motor 24	LEFS32□F	
	VDC)	LEFS40□F	
	High performance	LEFS16□G	
	Battery-less absolute	LEFS25□G	
	(Step motor 24 VDC)	LEFS32□G	
	<i>ক</i> I	LEFS40□G	
	AC servo motor (100/200 VAC)	LEFS25□ [S2/T6/V6]	
		LEFS32□ [S3/T7/V7]	
	(123,230 1110)	LEFS40□ [S4/T8/V8]	

<sup>\*1</sup> Acceleration/deceleration needs to be equal to or less than 3000 [mm/s<sup>2</sup>].

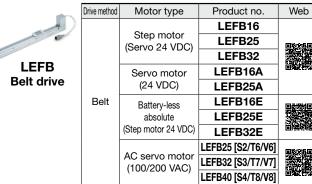
# **Z**-axis



# **OLEYG Series**

Drive method	Motor type	Product no.	Web
	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]	

# ●LEFB Series



<sup>\*</sup> The LEFB series cannot be used on X-axis.

### **OLEKFS Series**



<b>U</b> LL!\	i o ociica			
Drive method	Motor type	Product no.	Web	
	Battery-less absolute	LEKFS16□E		
		LEKFS25□E		
	(Step motor 24	LEKFS32□E		
	VDC) High performance	LEKFS40□E		
Ball		LEKFS25□G	095430	
screw	Battery-less absolute	LEKFS32□G		
	(Step motor 24 VDC)*1	LEKFS40□G	日沙城市	
AC servo motor (100/200 VAC)		LEKFS25□ [S2/T6/V6]		
	LEKFS32□ [S3/T7/V7]			
	LEKFS40□ [S4/T8/V8]			

<sup>\*1</sup> Acceleration/deceleration needs to be equal to or less than 3000 [mm/s²].

# [Support guide] for gantry



LEFG Series [Support guide]

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

LEFG
Support guide for ball screw drive actuator

<sup>\*</sup> Scan or click the QR code.

# **Controllers for SMC Actuators**

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



JXC51/61



EtherNet/IP



JXCE1 EtherCAT.





JXCD1 DeviceNet\*



**IO**-Link



- CC-Link
- 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

Scan or click here for details.



# **AC Servo Motor Drivers**

AC Servo Motor



**LECSA** 



**LECSB-T** 



LECSC-T CC-Link



**LECSS-T** SSCNETIII/H



LECYM MECHATROLINK-I



Scan or click



# Electric Actuator Mounting Kit for Multi-Axis System

# LEA Series



Y-axis

Y-axis

3 Y-axis mounting direction

Operating range

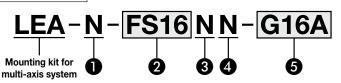
None

Symbol

N

# **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]	

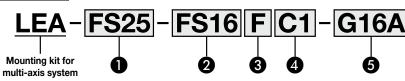
# 4 Y-axis bracket

0	Maralal
Symbol	Model
N	None

### **5** Z-axis

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

# Cantilever





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

# **1** Y-axis

<b>4</b> 1-a	XI2
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]

<sup>\*</sup> The LEKFS cannot be used for cantilevers.

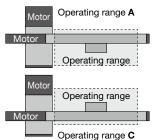
# **6** Z-axis

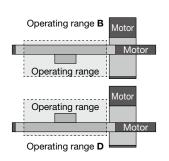
<u> </u>						
Symbol	Model Stroke					
N	None					
G16A	LEYG16	30 to 200				
G25A	15,005	30				
G25B	LEYG25	50 to 300				

# 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.



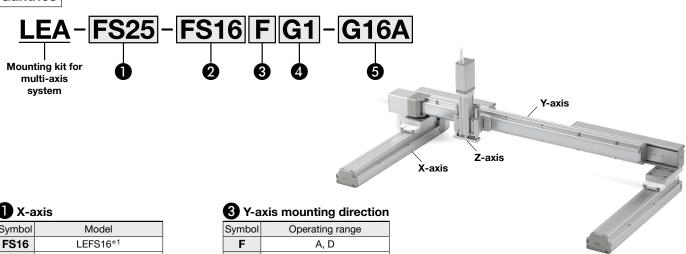


### 4 Y-axis bracket

<b>49</b> Y-a	xis bracket										
	2 Y-axis	<b>3</b> Y-	axis moun	ting directi	on: F	3 Y-axis mounting direction: R					
Symbol	Stroke	TS16 KS16	1 X-axis: FS25	<b>1</b> X-axis: FS32		X-axis: FS16 KS16	1 X-axis: FS25	1 X-axis: FS32	1 X-axis: FS40		
FS16	50	C	C1 C3			<b>C</b> 5		C7			
F510	100 to 500	C	C2 C4		C4		C6		C8		
FS25	50		C1	С	3	C5		C7			
F323	100 to 800	C2		C4			C6	C8			
FS32	50 to 1000			C	1			C2			
FS40	150 to 1200				C1				C2		
B16T	300 to 1000	C1		C	2	C	3	C	4		
B25T	300 to 2000		C1	C2			СЗ	C	4		
B25S	300 to 2000		C5	C6			C7	C	8		
B32T	300 to 2000			C1				C2			
B32S	300 to 2500			C3		C3				С	4

# **How to Order**





# 1 X-axis

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

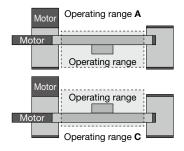
\*1 Not compatible with LEKFS16

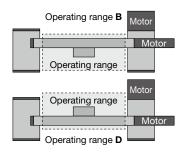
# 2 Y-axis

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]

Symbol	Operating range
F	A, D
R	B, C

Refer to the figures below for the operating range.





# **5** Z-axis

Symbol	Model	Stroke				
N	None					
G16A	LEYG16	30 to 200				
G25A	LFYG25	30				
G25B	LETG25	50 to 300				

# 4 Y-axis bracket

<b>2</b> Y	-axis	Y-ax	is moun	ting dire	ction: F	Y-ax	is moun	ting dire	ction: R	
		0	0	0	0	0	0	0	0	
Symbol	*1 Stroke	X-axis:	X-axis:	X-axis:	X-axis:	X-axis:	X-axis:	X-axis:	X-axis:	
-	Stroke	FS16	FS25	FS32	FS40	FS16	FS25	FS32	FS40	
	300		G	1			G	i3		
	350		G	i <b>2</b>			G	i4		
FS16	400		G	i <b>1</b>		G3				
KS16	450			2				i4		
	500		G	1			G	i3		
	300	/	G1	G	i1		G3	G	i3	
	350	] /	G i	6	i2	/	GS		ì4	
	400	] / ]	G2			] /	G4			
	450	/	G1		ì1	] /	G3		i3	
	500	/	G2		2	] /	G4		i4	
FS25	550*2	/	G1	G	<u>i1</u>	] /	G3	G	i3	
	600	/				/				
	650*2	/	G2	G	<b>i</b> 2	/	G4	G	i4	
	700	/	G1		-	/	G3	"		
	750*2	/	G2			]/	G4			
	800	/	G1	G	i1	/	G3	G	i3	
	350		/	G	ì1		/	G	i3	
	400		/				/			
	450		/	G2 G1 G2				G	i4	
	500		/					G3		
	550*2		/					0.4		
	600		/					G4		
FS32	650*2	,	/	G	ì1	,	/	G	i3	
	700 750*2	/			2	/		G4		
	800	/		G2 G1 G2					14	
	850*2	/ /						G3		
	900	/						G4		
	950*2	/			G2		/		G4	
	1000	/		G	ì1	/		G	i3	
	350	<u>/</u>		/	1	<u> </u>		/		
	400			/	G1				G3	
	450			/	G2			/	G4	
	500									
	550*2				G1				G3	
	600		/	/	G2	1	/	/	G4	
	650*2		/			1	/			
FC 40	700				G1				G3	
FS40	750*2				G2	1			G4	
	800				G1					
	850*2	,	/		GI	,	/		G3	
	900	/			G2	] /			G4	
	950*2									
	1000				G1	/			G3	
	1100	/				/				
	1200	/			G2	V			G4	
*1 Act										

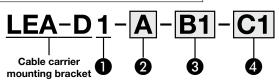
- \*1 Actuators with strokes less than those listed cannot be used with the
- gantry.
  \*2 Strokes available only for the LEFS series (LEKFS is a non-standard stroke)

2 Y-axis		Y-ax	is moun	ting dire	ction: F	3 Y-axis mounting direction: R				
		0	0	0	0	0	0	0	0	
Symbol	*1 Stroke	X-axis:	X-axis:	X-axis:	X-axis:	X-axis:	X-axis:	X-axis:	X-axis:	
*	Stroke	FS16	FS25	FS32	FS40	FS16	FS25	FS32	FS40	
	500	G		G	1	G	i3		i3	
	600	G				G4				
	700			G	i <b>2</b>			G	i4	
B16T	800	G1		G		G	i3		i3	
	900	G2				G	i4			
	1000	G		G	2		i3	G	i4	
	500	7	G2			1 7	G4			
	600	1 /	G1	G	<b>i</b> 2	/	G3	G	i4	
	700	/				1 /				
	800	/	G2	G	i2	/	G4	G	i4	
	900	1 /	G1	G		/	G3		3	
B25T	1000	/	<u> </u>		2	/			i4	
	1200	/	G2			/	G4			
	1500	1 /	u_			/	_ <del></del>			
	1800	/	G1	G	2	/	G3	G	i4	
	2000	<del> </del> /	G2	١	2	/	G4		-	
	400	1	G1	G	1	1	G3	G	i3	
	500		G2				G4			
	600		G1	G	<b>i</b> 2		G3	G	i4	
	700		GI			1 /	GS			
			G2		2		G4		-	
	800		<u></u>						i4	
	900		G1	G			G3		3	
	1000		G2		2		G4		i4	
DOEO	1100		G1	G	1		G3	G	i3	
B25S	1200		G2				G4		_	
	1300		G1		2	/	G3		i4	
	1400			G					i3	
	1500		G2		i2		G4		i4	
	1600		G1	G	i <b>1</b>	/	G3	G	i3	
	1700		G2			! /	G4			
	1800	/	G1	G	i <b>2</b>	1/	G3	G	i4	
	1900	1/				!/				
	2000		G2		2		G4		i4	
	500		/	G			/		i3	
	600			G			/		i4	
	700				G1		/		G3	
	800	. /		G		/		G4		
B32T	900		/	G	i <b>1</b>		/	G	i3	
5521	1000	/		G	2	/		G	i4	
	1200	/				/				
	1500	/		G	i <b>1</b>	/		G	i3	
	1800	/		G	2	/		C	i4	
	2000	/				/				
	500		/	G			/		i3	
	600			G					i4	
	700			G					i3	
	800			G					i4	
	900			G	i <b>1</b>				i3	
	1000			G	i <b>2</b>				i4	
	1100			G	i <b>1</b>			G	i3	
	1200			G	2			G	i4	
B32S	1300	,	/	G	i <b>1</b>	,	/	G	i3	
	1400	/		G	2	] /		G	i4	
	1500	/		G		] /		G	i3	
	1600				i2				i4	
	1700			G					i3	
	1800	/		G					i4	
	1900			G					i3	
	2000	1/			2	1/			i4	
	2500	1/		G		1/			i3	
								_		



# **How to Order**



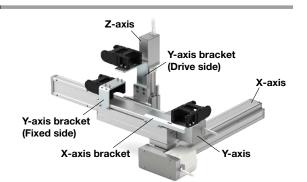


Compatible manufacturer and series

_	<u>'</u>	
Symbol	Manufacturer	Series
1	igus	E4.28

# 2 X-axis bracket

Symbol	Yes/No
N	No
Α	Yes



Y-axis bracket (Fixed side)

	•	•		
C. was la a l		Y-a	ixis	
Symbol	FS16/KS16/B16T	FS25/B25T/B25S	FS32/B32T/B32S	FS40
N	_	_	_	_
B1	•	_	_	_
B2	_	•	•	•

# 4 Y-axis bracket (Drive side)

	•			
Symbol		Y-a	ixis	
Symbol	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

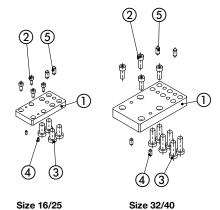
The offset amount of the X-axis depends on the device to be installed, so please select it yourself.

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

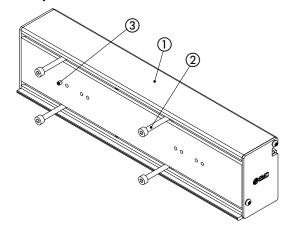
X-axis size	Y-axis size	F	G
16		142.5	38.5 + (Stroke + 80)
25	16	142.5	2
32	10	118.5	38.5 + (Stroke + 80)
40		116.5	2
25	25	167.5	38.5 + (Stroke + 110) 2
32		143.5	38.5 + (Stroke + 110)
40		145.5	2
32	32	200.5	38.5 + (Stroke + 130)
40	32	200.5	30.5 + 2
40	40	194.5	38.5 + (Stroke + 178) 2

# **Component Parts**

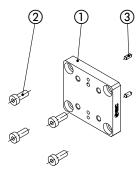
# 1) X fixing plate



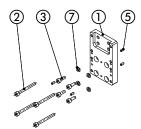
# 2) Boom profile



# 3) Y fixing plate



# 4) Z adapter plate



\* Refer to the operation manual for assembly procedures.

# **Parts List**

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

<sup>\*1</sup> Refer to the "How to Order" section.

# Parts List

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

# **Parts List**

No.	Description	Qty.	Y-axis*1
1	Y fixing plate	1	F00F /F000 /F0 40 /P0FT /
2	Hexagon socket thin head cap screw	4	FS25/FS32/FS40/B25T/ B25S/B32T/B32S/B40S
3	Parallel pin	2	D200/ D02 1/ D020/ D400

<sup>\*1</sup> Refer to the "How to Order" section.

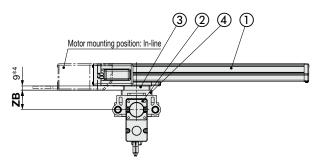
# **Parts List**

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
	Parallel pin Parallel pin	4	FS16/KS16/B16T
5		2	FS25/FS32/FS40/B25T/ B25S/B32T/B32S/B40S
		_	FS16/KS16/B16T
6		2	FS25/FS32/FS40/B25T/ B25S/B32T/B32S/B40S
		4	FS16/KS16/B16T
7	Flat washer	-	FS25/FS32/FS40/B25T/ B25S/B32T/B32S/B40S

<sup>\*1</sup> Refer to the "How to Order" section.

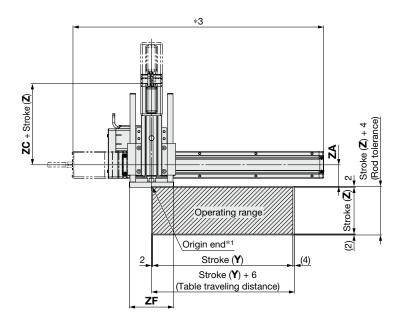


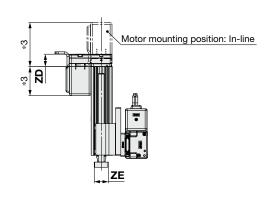
# **Dimensions: Line Gantries**

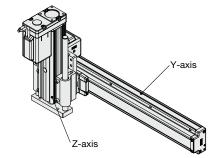


<b>D</b>	<b>D</b>		
Parts <b>Parts</b>	L)es	crii	ntion

No	Э.	Part no.	Description	Qty.	Note
1		LE(K)FS, LEFB series	Y-axis actuator	1	Order separately.*2 *3
2	2	LEYG series	Z-axis actuator	1	Order separately.*2 *3
3	}		Y fixing plate	(1)	Size 25, 32, 40*4
4			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 catalog for the selected model.
- \*2 This product does not include an actuator. Order it separately.
- \*3 For the actuator dimensions, refer to the catalog for the selected model.
- \*4 For Y-axis size 16, ③ Y fixing plate is not used.
- \* 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.

# Y-Z Axis Combinations

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

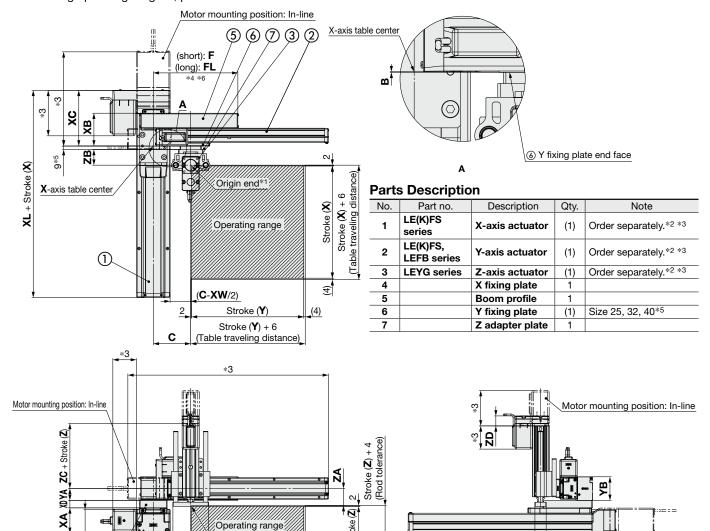
# **Z-Axis Dimensions**

	ZC						
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
			47.5	67.5	22.5		



# **Dimensions: Cantilever (Operating range A)**

When using operating range B, 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 catalog for the selected model.

Origin end\*1

- \*2 This product does not include an actuator. Order it separately.
- \*3 For the actuator dimensions, refer to the catalog for the selected model.

ZF

- \*4 When the Y-axis stroke is 50, please note that (3) the boom profile will be longer than the Y-axis actuator.
- \*5 For shaft size 16, 6 the Y fixing plate is not used.

<u>ო</u>

4

- \*6 F (short) and FL (long) vary depending on the selected model.
- \* 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.

### 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* <sup>1</sup>	88	204	248*2		
40	25	0.5	100	226	306*2		
	32	15.5	114	286	_		
	40	24.5	114	257	_		

<sup>\*1</sup> Represents the opposite direction

### X-Axis Dimensions

, , , D	<i>-</i>						
X-axis size	XA	XB	XC	XD	XL	XW	
16	40	59.5	66.5	10	116.5	40	
10	(43.5)*3	39.3	00.5	10	110.5		
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	

<sup>\*3</sup> For LEKFS16

### Y-Axis Dimensions

. / ////	1010110	
Y-axis size	YA	YB
16	22	44
25	32	63
32	38	75
40	48	95

# **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

ΖE

X-axis



Y-axis

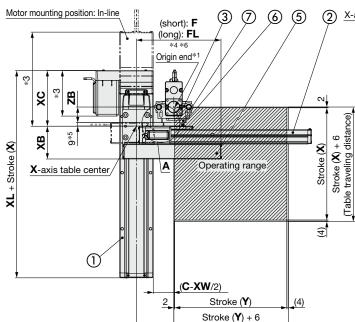
Z-axis

<sup>\*2</sup> For Y-axis LEFB

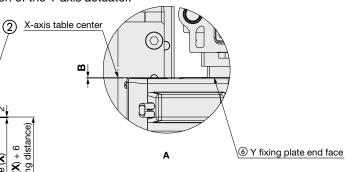
# **LEA** Series

# **Dimensions: Cantilever (Operating range C)**

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

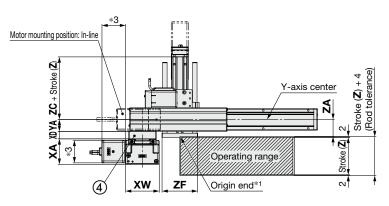


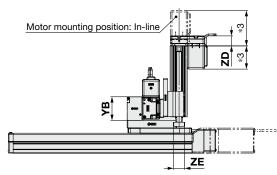
С



# **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		X fixing plate	1	
5		Boom profile	1	
6		Y fixing plate	(1)	Size 25, 32, 40*5
7		Z adapter plate	1	

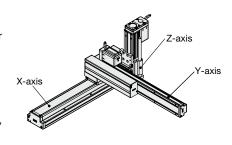




\*1 This diagram shows the position of the "origin end" (0 mm) at the time of shipment from the factory. When the direction for return to origin needs to be changed to opposite side, refer to the catalog for the selected model.

(Table traveling distance)

- \*2 This product does not include an actuator. Order it separately.
- \*3 For the actuator dimensions, refer to the catalog for the selected model.
- \*4 When the Y-axis stroke is 50, please note that (§) 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* <sup>1</sup>	88	204	248*2		
40	25	0.5	100	226	306*2		
	32	15.5	114	286	_		
	40	24.5	114	257	_		

<sup>\*1</sup> Represents the opposite direction

### X-Axis Dimensions

	A 7 Bare Dimensione									
X-axis size	XA	XB	XC	XD	XL	XW				
16	40	59.5	66.5	10	116.5	40				
10	(43.5)*3	39.3	00.5	10	110.5	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				

<sup>\*3</sup> For LEKFS16

# **Y-Axis Dimensions**

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

# **Z-Axis Dimensions**

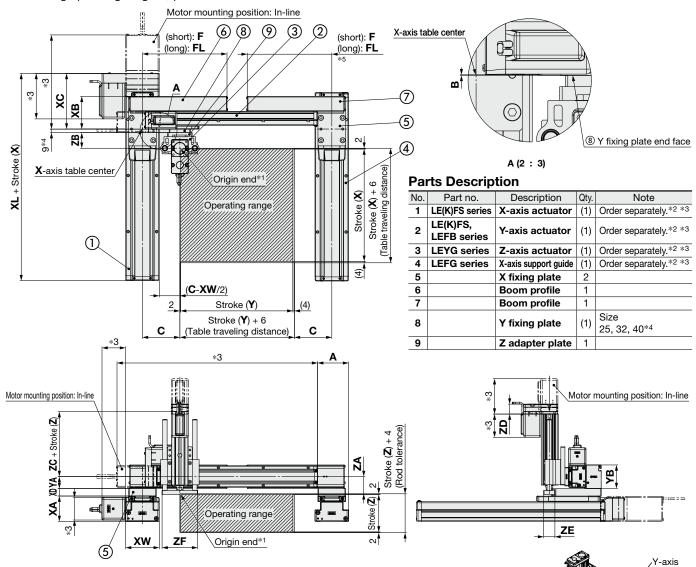
7			Z	С			
Z-axis size	ZA	ZB	Z-axis	stroke	ZD	ZE	ZF
3126			100 or less	105 or more			
16	37	35.8	47.5	67.5	22.5	25	79
25	46	41.8	67	92	26.5	30	95



<sup>\*2</sup> For Y-axis LEFB

# **Dimensions: Gantries (Operating range A)**

When using operating range B, 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 catalog for the selected model.
- \*2 This product does not include an actuator. Order it separately.
- \*3 For the actuator dimensions, refer to the catalog 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

X-axis	V ovio		A	\				
size	size	Y-axis actuator			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* <sup>1</sup>	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

<sup>\*1</sup> Represents the opposite direction

# X-Axis Dimensions

X-axis size	XA	ХВ	хс	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

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

# -Axis Dimensions Z-Axis Dimensions

X-axis

7			Z	C			
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

Z-axis

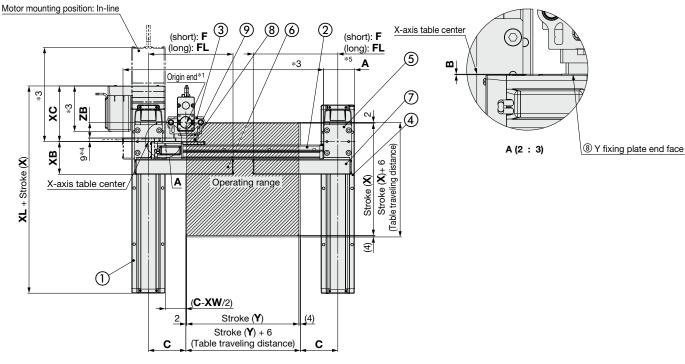


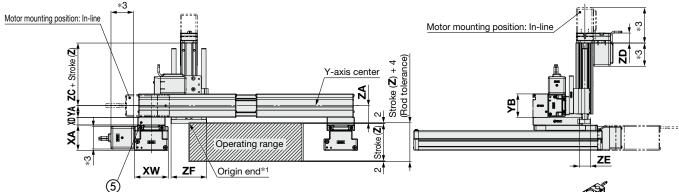
Support guide

# **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 catalog for the selected model.
- \*2 This product does not include an actuator. Order it separately.
- \*3 For the actuator dimensions, refer to the catalog 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

Varia	Y-axis size	Α						
x-axis		Y	-axis a	ctuator	В	С	F	FL
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* <sup>1</sup>	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

<sup>\*1</sup> Represents the opposite direction

# X-Axis Dimensions

X-axis siz	e 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

X-axis

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

# Axis Dimensions Z-Axis Dimensions

7			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

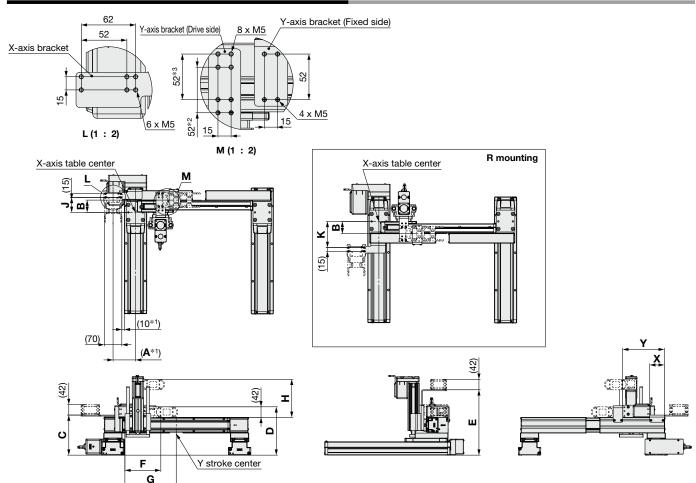
Z-axis

Y-axis

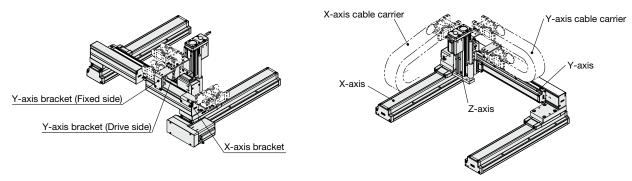
Support guide



# **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

Manufacturer	Series	X-axis size	Y-axis size	<b>A</b> *1	В	С	D	E	<b>X</b> *1	<b>Y</b> *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		166	152
		32	16	80	41.5	129	166	239	68	144	161
iaua	E4.00		25		37.5	148	185	249		166	152
igus	E4.∠0		32		37.5	160	197	271		227	162
			16	25 32 90	53	141	178	251	58	144	161
			25		49	160	197	261	58	166	152
			32		49	172	209	283	58	227	162
			40		49	192	229	293	63	202	152

# **⚠** 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 injury.

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

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

\*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

# **.**⚠Warning

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 catalog 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

- 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. SMC products cannot be used beyond their specifications. They are not developed, designed, and manufactured to be used under the following conditions or environments. Use under such conditions or environments is not allowed.
  - 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, combustion 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 catalogs 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.

# **⚠** Caution

SMC develops, designs, and manufactures products to be used for automatic control equipment, and provides them for peaceful use in manufacturing industries.

Use in non-manufacturing industries is not allowed.

Products SMC manufactures and sells cannot be used for the purpose of transactions or certification specified in the Measurement Act of each country. The new Measurement Act prohibits use of any unit other than SI units in

# 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 branch.
- 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 catalog for the particular products.
  - \*2) Suction cups (Vacuum pads) are excluded from this 1 year warranty. A suction cup (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 suction cup (vacuum pad) or failure due to the deterioration of rubber material are not allowed by the limited warranty.

# 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.

↑ Safety Instructions | Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use.