Environment Clean Room Specification

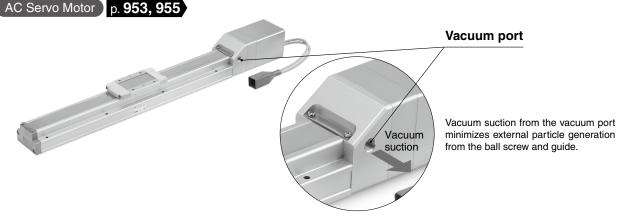
●ISO Class 4*1 (ISO 14644-1)

- Built-in vacuum piping
- It is possible to mount the main body without removing the external cover, etc.
- Body-integrated linear guide specification
- *1 Changes depending on the suction flow rate

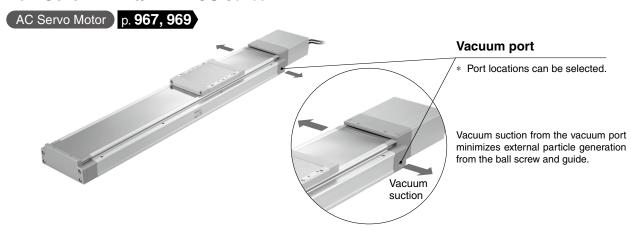
Slider Type

Ball Screw Drive/11-LEFS Series

Incremental (Step Motor 24 VDC) Incremental (Servo Motor 24 VDC) p. 943



High Rigidity Slider Type Ball Screw Drive/11-LEJS Series



Support Guide/11-LEFG Series p. 961

The support guide was designed to support workpieces with significant overhang.

- As the dimensions are the same as the LEF series body, installation is simple and contributes to a reduction in installation and assembly labor.
- The standard-equipped seal bands prevent grease from splashing and external foreign matter from entering.

Application example LEF (Drive side Support guide

⚠ Caution

After installing the actuator on the drive side, align it with the support guide. If the mounting flatness exceeds 0.1, install a floating mechanism separately on the workpiece installation surface (table).



11-LEFS Series ▶p. 943, 953, 955

Particle Generation Measuring Method

The particle generation data for SMC Clean Series are measured in the following test method.

■ Test Method (Example)

Operate the specimen that is placed in an ISO Class 5 equivalent clean bench, and measure the changes of the particle concentration over time until the number of cycles reaches the specified point.

■ Measuring Conditions

Measuring instrument	Description	Laser dust monitor (Automatic particle counter using the light scattering method		
	Minimum measurable particle diameter	0.1 μm		
	Suction flow rate	28.3 L/min (ANR)		
Setting conditions	Sampling time	5 min		
	Interval time	55 min		
	Sampling air flow	141.5 L (ANR)		



Particle generation measuring circuit

■ Evaluation Method

To obtain the measured values of particle concentration, the accumulated value*1 of particles captured every 5 minutes, by the laser dust monitor, is converted into the particle concentration in every 1 m³.

When determining particle generation grades, the 95% upper confidence limit of the average particle concentration (average value), when each specimen is operated at a specified number of cycles*2 is considered.

The plots in the graphs indicate the 95% upper confidence limit of the average particle concentration of particles with a diameter within the horizontal axis range.

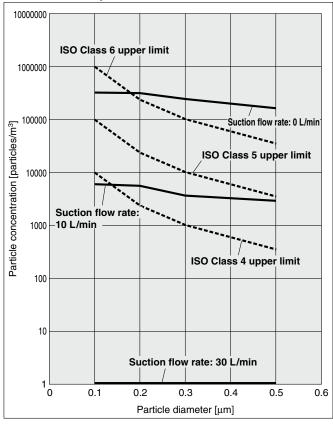
- *1 Sampling air flow rate: Number of particles contained in 141.5 L (ANR) of air
- *2 Actuator: 1 million cycles
- * The particle generation characteristics (pages 940 and 941) provide a guide for selection but is not guaranteed.
- * When the suction flow rate is 0 L/min, the particle concentration is measured during operation without suction.



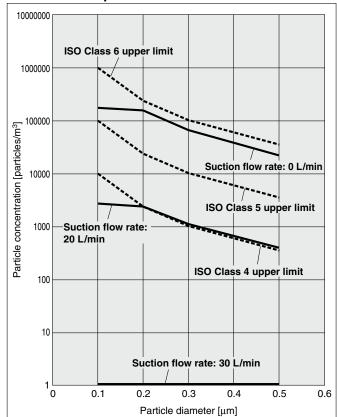


Particle Generation Characteristics Step Motor (Servo/24 VDC), Servo Motor (24 VDC)

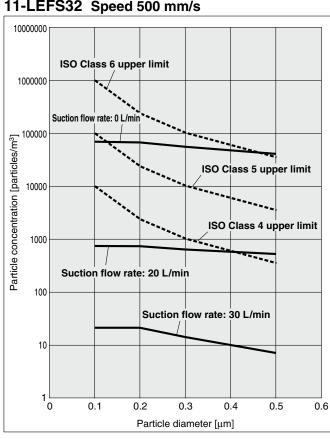
11-LEFS16 Speed 500 mm/s



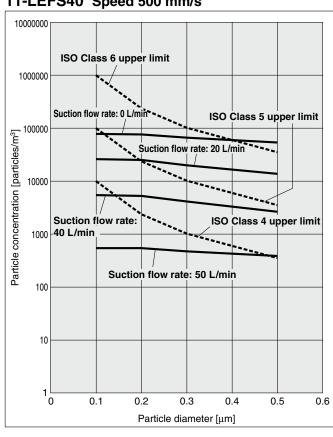
11-LEFS25 Speed 500 mm/s



11-LEFS32 Speed 500 mm/s



11-LEFS40 Speed 500 mm/s

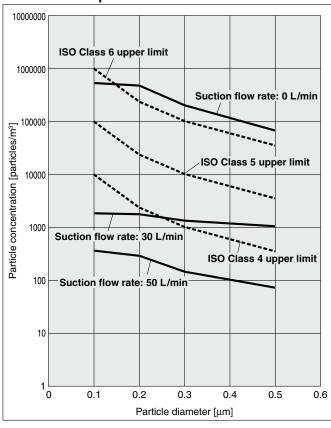




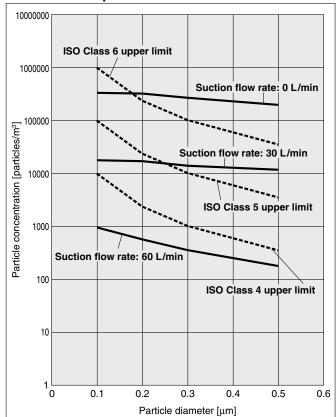


Particle Generation Characteristics AC Servo Motor (100/200/400 W)

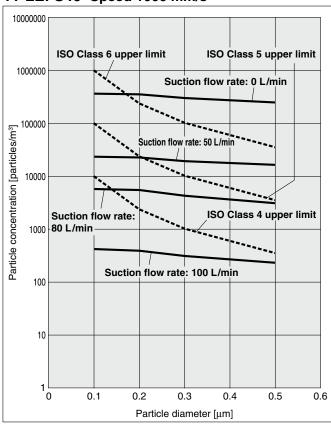
11-LEFS25 Speed 900 mm/s



11-LEFS32 Speed 1000 mm/s



11-LEFS40 Speed 1000 mm/s







Slider Type Ball Screw Drive Clean Room Specification

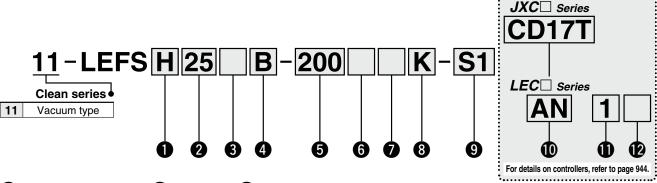


11-LEFS Series LEFS16, 25, 32, 40

(RoHS)

Refer to page 113 for model selection and page 939 for particle generation characteristics.

How to Order



Accuracy

Nil	Basic type		
Н	High-precision type		

9 312
16
25
32
40

3 Motor type

Cumbal	Cumbal Tuna		Applicable size				
Symbol	Туре	LEFS16	LEFS25	LEFS32	LEFS40	controllers/drivers	
Nil	Step motor (Servo/24 VDC)	•	•	•	•	JXC51 JXCEF JXC61 JXC9F JXCE1 JXCPF JXC91 JXCLF JXCP1 JXCD1 LECP1 JXCL1 LECPA JXCM1	
Α	Servo motor (24 VDC)	•	•	_	_	LECA6	

4 Lead [mm]

Symbol	11-LEFS16	11-LEFS25	11-LEFS32	11-LEFS40
Α	10	12	16	20
В	5	6	8	10

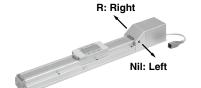
6 Motor option

Nil	Without option
В	With lock

6 Stroke*1 [mm]

		-			
Stroke	Note				
Stroke	Size	Applicable stroke			
50 to 500	16	50, 100, 150, 200, 250, 300, 350, 400, 450, 500			
50 to 600	25	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600			
50 to 800	32	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800			
150 to 1000	40	150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000			

V Val	cuulii port -
Nil	Left
R	Right



8 Positioning pin hole

Nil	Housing B bottom*3	Housing B bottom
K	Body bottom 2 locations	Body bottom

Actuator cable type/length*5

•	.uu.u.	•		, ,,,,,,,,		
Standard cable [m]			Roboti	[m		
Nil	None		R1	1.5	RA	10*4
S1	1.5* ⁷		R3	3	RB	15* ⁴
S3	3*7		R5	5	RC	20*4
S5	5*7		R8	8*4		

Support Guide/11-LEFG Series

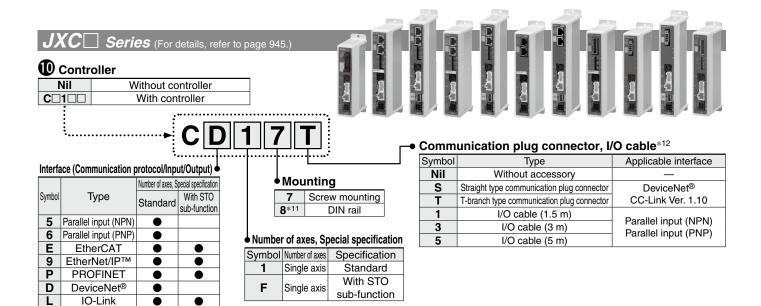
The support guide was designed to support workpieces with significant overhang.



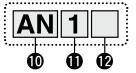




Incremental (Step Motor 24 VDC) Incremental (Servo Motor 24 VDC) Clean Room Specification



Series (For details, refer to page 945.)



CC-Link

Controller/Driver type*6

Nil	Without controller/driver				
6N	LECA6	NPN			
6P	(Step data input type)	PNP			
1N	LECP1*7	NPN			
1P	(Programless type)	PNP			
AN	LECPA*7 *8	NPN			
AP	(Pulse input type)	PNP			

I/O cable length*9

Nil	Without cable (Without communication plug connector)
1	1.5 m
3	3 m* ¹⁰
5	5 m* ¹⁰



Controller/Driver mounting

	g
D DIN rail*11	

- *1 Please contact SMC for non-standard strokes as they are produced as special orders
- *2 Vacuum piping is only built in on the vacuum port side selected at the time of purchase.
 - Note that after purchase, if suction is used on the port on the opposite side, the particle generation characteristics stated in the catalog may not apply. To make any changes after purchase, be sure to contact SMC.
- *3 Refer to the body mounting example on page 280 for the mounting method.
- *4 Produced upon receipt of order (Robotic cable only)
- *5 The standard cable should only be used on fixed parts. For use on moving parts, select the robotic cable. Refer to the Web Catalog if only the actuator cable is required.
- *6 For details on controllers/drivers and compatible motors, refer to the

- compatible controllers/drivers on the next page.
- Only available for the motor type "Step motor"
- *8 When pulse signals are open collector, order the current limiting
- resistor (LEC-PA-R-□) on page 1062 separately.
 When "Without controller/driver" is selected for controller/driver types, I/O cable cannot be selected. If an I/O cable is required, refer to the cable for the LECA6 (Web Catalog), LECP1 (Web Catalog), or LECPA (Web Catalog).

 *10 When "Pulse input type" is selected for controller/driver types, pulse input upper least of the cable of the
- usable only with differential. Only 1.5 m cables usable with open collector
- The DIN rail is not included. It must be ordered separately.
- Select "Nil" for anything other than DeviceNet®, CC-Link, or parallel input. Select "Nil," "S," or "T" for DeviceNet® or CC-Link. Select "Nil," "1," "3," or "5" for parallel input.

∕ Caution

[CE/UKCA-compliant products]

- 1) EMC compliance was tested by combining the electric actuator LEF series and the controller LEC/JXC series.
 - The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore, compliance with the EMC directive cannot be certified for SMC components incorporated into the customer's equipment under actual operating conditions. As a result, it is necessary for the customer to verify compliance with the EMC directive for the machinery and equipment as a whole
- 2 For the ilncremental (servo motor 24 VDC) specification, EMC compliance was tested by installing a noise filter set (LEC-NFA). Refer to page 1037 for the noise filter set. Refer to the LECA series Operation Manual for

[UL-compliant products (For the LEC series)]

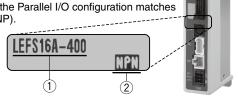
When compliance with UL is required, the electric actuator and controller/ driver should be used with a UL1310 Class 2 power supply.

The actuator and controller/driver are sold as a package.

Confirm that the combination of the controller/driver and actuator is correct.

<Check the following before use.>

- 1) Check the actuator label for the model number. This number should match that of the controller/driver.
- ② Check that the Parallel I/O configuration matches (NPN or PNP).



Refer to the Operation Manual for using the products. Please download it via our website: https://www.smcworld.com



Compatible Controllers/Drivers

Туре	Step data input type	Step data input type	Programless type	Pulse input type
Series	JXC51 JXC61	LECA6	LECP1	LECPA
Features	Parallel I/O	Parallel I/O	Capable of setting up operation (step data) without using a PC or teaching box	Operation by pulse signals
Compatible motor	Step motor (Servo/24 VDC)	Servo motor (24 VDC)		motor 24 VDC)
Max. number of step data	64 p	oints	14 points	_
Power supply voltage		24 \	/DC	
Reference page	1017	1031	1042	1057

Туре	EtherCAT direct input type	EtherCAT direct input type with STO sub-function	EtherNet/IP™ direct input type	EtherNet/IP™ direct input type with STO sub-function	PROFINET direct input type	PROFINET direct input type with STO sub-function	DeviceNet® direct input type	IO-Link direct input type	IO-Link direct input type with STO sub-function	CC-Link direct input type
Series	JXCE1	JXCEF	JXC91	JXC9F	JXCP1	JXCPF	JXCD1	JXCL1	JXCLF	JXCM1
Features	EtherCAT direct input	EtherCAT direct input with STO sub-function	EtherNet/IP™ direct input	EtherNet/IP™ direct input with STO sub-function	PROFINET direct input	PROFINET direct input with STO sub-function	DeviceNet® direct input	IO-Link direct input	IO-Link direct input with STO sub-function	CC-Link direct input
Compatible motor					•	motor 24 VDC)	l		1	
Max. number of step data					64 p	oints				
Power supply voltage					24 \	/DC				
Reference page					10	63				



Specifications

Step Motor (Servo/24 VDC)

		Mod	el	11-LE	FS16	11-LE	FS25	11-LE	FS32	11-LE	FS40
	Stroke [n	nm]*1		50 to	500	50 to	600	50 to	800	150 to	1000
		*2 Horizontal	JXC□1/JXC□F/LECP1	14	15	25	30	45	50	55	65
	Work loa	d 불	LECPA/JXC□ ₃ ²	9	10	20	20	40	45	50	60
	[kg]		Vertical	2	4	7.5	15	10	20	2	23
	Speed [m	nm/s]*2	2	10 to 500	5 to 250	12 to 500	6 to 250	16 to 500	8 to 250	20 to 500	10 to 250
	Max. accel	leration/	deceleration [mm/s ²]				30	00			
	Positioning		Basic type				±0.	.02			
ous	repeatabilit	ty [mm]	High-precision type				±0.	015			
ati	Lost mot	ion*3	Basic type				0.1 o	r less			
ij	[mm]		High-precision type				0.05 c	or less			
specifications	Lead [mn			10	5	12	6	16	8	20	10
	Impact/Vil	bration	resistance [m/s ²]*4				50,	/20			
Actuator	Actuation	n type					Balls	screw			
Act	Guide typ	ре					Linear	guide			
	Static allo	wable	Mep (Pitching)	1	0	2	7	4	6	11	10
	moment*5	5	Mey (Yawing)	1	0	2	7	4	6	11	10
	[N·m]		Mer (Rolling)	2	0	5	2	10	01	20)7
		<u> </u>	erature range [°C]					40			
			dity range [%RH]				90 or less (No	condensation))		
	Cleanline	ess cla	ss* ⁶				ISO Class 4 (
	Grease	Ball sci	rew /Linear guide portion			L	ow particle ge	neration greas	е		
S	Motor siz	ze			28		42		□5	6.4	
Electric specifications	Motor typ							ervo/24 VDC)			
ifica	Encoder						Increr				
E Se		<u> </u>	oltage [V]				24 VD0	C ±10%			
	Power [W	V] *7 *9		Max. po	ower 51	Max. po	ower 57	Max. po	wer 123	Max. po	wer 141
Lock unit specifications	Type*8							etizing lock		,	
cati	Holding f		N]	20	39	78	157	108	216	113	225
Ciff	Power [W			2.	9	5			5		5
_ ds	Rated vo	Itage [V]				24 VD0	C ±10%			

- *1 Please contact SMC for non-standard strokes as they are produced as special orders.
- *2 Speed changes according to the controller/driver type and work load. Check the "Speed-Work Load Graph (Guide)" on pages 114 and 115. Furthermore, if the cable length exceeds 5 m, then it will decrease by up to 10% for each 5 m.
- *3 A reference value for correcting errors in reciprocal operation
- *4 Impact resistance: No malfunction occurred when the actuator was tested with a drop tester in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)
 - Vibration resistance: No malfunction occurred in a test ranging between 45 to 2000 Hz. The test was performed in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)
- *5 The static allowable moment is the amount of static moment which can be applied to the actuator when it is stopped. If the product is exposed to impact or repeated load, be sure to take adequate safety measures when using the product.
- *6 The amount of particle generation changes according to the operating conditions and suction flow rate. Refer to the particle generation characteristics for details.
- *7 Indicates the max. power during operation (including the controller)
- This value can be used for the selection of the power supply.
- *8 With lock only
- *9 For an actuator with lock, add the power for the lock.



Specifications

Servo Motor (24 VDC)

	Model		11-LE	FS16A	11-LEF	S25A
	Stroke [mm]*1		50 to	500	50 to	600
	Work load*2	Horizontal	7	10	11	18
	[kg]	Vertical	2	4	2.5	5
	Speed [mm/s]*2		1 to 500	1 to 250	2 to 500	1 to 250
	Max. acceleration/decel	eration [mm/s ²]		30	00	
,	Positioning	Basic type		±0.	.02	
l ä	repeatability [mm]	High-precision type		±0.0	015	
atic	Lost motion*3	Basic type		0.1 o	r less	
lic l	[mm]	High-precision type		0.05 c	or less	
ec.	Lead [mm]		10	5	12	6
Actuator specifications	Impact/Vibration resis	tance [m/s ²]*4		50/	/20	
ᅝ	Actuation type			Ball s	crew	
L Ta	Guide type			Linear		
Act	Static allowable	Mep (Pitching)	1	0	2	7
	moment*5	Mey (Yawing)	1	0	2	7
	[N·m]	Mer (Rolling)	2	0	52	2
	Operating temperatu	re range [°C]		5 to	40	
	Operating humidity			90 or less (No		
	Cleanliness class				ISO 14644-1)	
	Grease Ball screw /Lir	near guide portion	L	ow particle ge	neration grease	1
ဟ	Motor size			28		12
Electric specifications	Motor output [W]		3	0	36	6
cat	Motor type			Servo moto		
흢등	Encoder			Incren		
sbe	Power supply vol	Itage [V]		24 VDC		
	Power [W]*7*9		Max. po	ower 70	Max. po	wer 113
Lock unit specifications	Type*8				etizing lock	
cati	Holding force [N]		20	39	78	157
SE SE	Power [W]*9		2	.9	5	
g	Rated voltage [V]			24 VDC	C ±10%	

- *1 Please contact SMC for non-standard strokes as they are produced as special orders.
- *2 Check the "Speed-Work Load Graph (Guide)" on page 117 for details. Furthermore, if the cable length exceeds 5 m, then it will decrease by up to 10% for each 5 m.
- *3 A reference value for correcting errors in reciprocal operation
- *4 Impact resistance: No malfunction occurred when the actuator was tested with a drop tester in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)
 - Vibration resistance: No malfunction occurred in a test ranging between 45 to 2000 Hz. The test was performed in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)
- *5 The static allowable moment is the amount of static moment which can be applied to the actuator when it is stopped.
 - If the product is exposed to impact or repeated load, be sure to take adequate safety measures when using the product.
- *6 The amount of particle generation changes according to the operating conditions and suction flow rate. Refer to the particle generation characteristics for details.
- *7 Indicates the max. power during operation (including the controller) This value can be used for the selection of the power supply.
- *8 With lock only
- *9 For an actuator with lock, add the power for the lock.

Weight

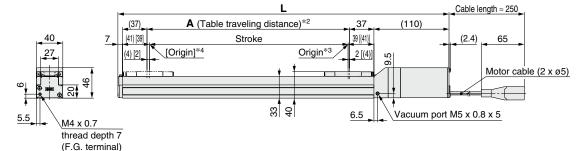
Series					11-LE	FS16				
Stroke [mm]	50	100	150	200	250	300	350	400	450	500
Product weight [kg]	0.83	0.90	0.98	1.05	1.13	1.20	1.28	1.35	1.43	1.50
Additional weight with lock [kg]					0.	12				

Series	11-LEFS25											
Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600
Product weight [kg]	1.70	1.84	1.98	2.12	2.26	2.40	2.54	2.68	2.82	2.96	3.10	3.24
Additional weight with lock [kg]						0.:	26					

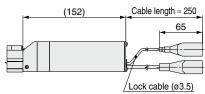
Series	11-LEFS32															
Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Product weight [kg]	3.15	3.35	3.55	3.75	3.95	4.15	4.35	4.55	4.75	4.95	5.15	5.35	5.55	5.75	5.95	6.15
Additional weight with lock [kg]								0.	53							

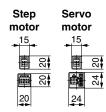
Series		11-LEFS40																
Stroke [mm]	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
Product weight [kg]	5.37	5.65	5.93	6.21	6.49	6.77	7.15	7.33	7.61	7.89	8.17	8.45	8.75	9.01	9.29	9.57	9.85	10.13
Additional weight with lock [kg]									0.	53								

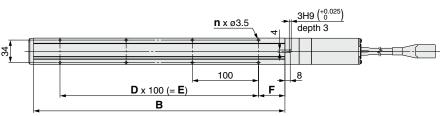
11-LEFS16 ø3H9 (+0.025 Body mounting 40 depth 3 reference plane 4 x M4 x 0.7 24 (B dimension range) thread depth 6.4 28 39.4 3H9 (+0.025) depth 3

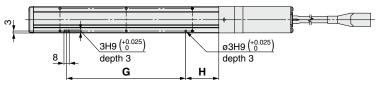


Motor option: With lock



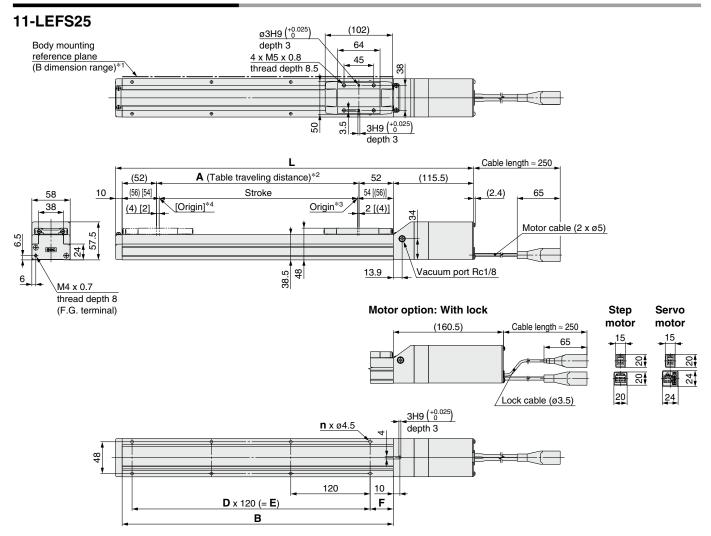


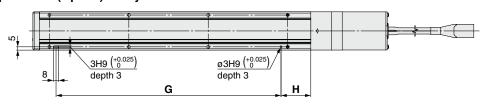




- *1 When mounting the actuator using the body mounting reference plane, set the height of the opposite surface or pin to be 2 mm or more because of round chamfering. (Recommended height: 5 mm)
 - In addition, be aware that surfaces other than the body mounting reference plane (B dimension range) may slightly protrude from the body mounting reference plane. Be sure to provide a clearance of 1 mm or more to avoid interference with workpieces, facilities, etc.
- *2 This is the distance within which the table can move when it returns to origin.
- Make sure that workpieces mounted on the table do not interfere with other workpieces or the facilities around the table.
- *3 Position after returning to origin
- *4 [] for when the direction of return to origin has changed
- *5 When using the body bottom positioning pin holes, do not simultaneously use the housing B bottom pin hole.

Dimensions										[mm]
Model	L	-	Α	В	n	D	Е	F	G	н
Wodel	Without lock	With lock					_	•	u	••
11-LEFS□16□-50□	247	289	56	130	4	_	_	15	80	25
11-LEFS□16□-100□	297	339	106	180	4	_	_		80	50
11-LEFS□16□-150□	347	389	156	230	4	_	_		80	50
11-LEFS□16□-200□	397	439	206	280	6	2	200		180	50
11-LEFS□16□-250□	447	489	256	330	6	2	200		180	50
11-LEFS□16□-300□	497	539	306	380	8	3	300	40	280	50
11-LEFS□16□-350□	547	589	356	430	8	3	300		280	50
11-LEFS□16□-400□	597	639	406	480	10	4	400		380	50
11-LEFS□16□-450□	647	689	456	530	10	4	400		380	50
11-LEFS□16□-500□	697	739	506	580	12	5	500		480	50



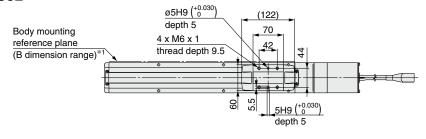


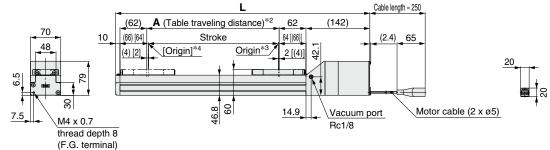
- *1 When mounting the actuator using the body mounting reference plane, set the height of the opposite surface or pin to be 3 mm or more because of round chamfering. (Recommended height: 5 mm) In addition, be aware that surfaces other than the body mounting reference plane (B dimension range) may slightly protrude from the body mounting reference plane. Be sure to provide a clearance of 1 mm or more to avoid interference with workpieces, facilities, etc.
- *2 This is the distance within which the table can move when it returns to origin. Make sure that workpieces mounted on the table do not interfere with other workpieces or the facilities around the table.
- *3 Position after returning to origin
- *4 [] for when the direction of return to origin has changed
- *5 When using the body bottom positioning pin holes, do not simultaneously use the housing B bottom pin hole.

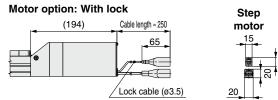
B 160 210 260 310	n 4 4 4 6	D — — — — —	E — — — —	F 20	100 100	H 30 45
160 210 260	4 4 4	_ _ _	_ 	-	100	30
210 260	4	_ _ _	_ 	20	100	
260	4	_	_			45
	-	_	_		100	
310	6	_		l .	100	45
		2	240		220	45
360	6	2	240		220	45
410	8	3	360		340	45
460	8	3	360	35	340	45
510	8	3	360		340	45
560	10	4	480		460	45
610	10	4	480		460	45
660	12	5	600		580	45
710	12	5	600		580	45
	510 560 610	510 8 560 10 610 10 660 12	510 8 3 560 10 4 610 10 4 660 12 5	510 8 3 360 560 10 4 480 610 10 4 480 660 12 5 600	510 8 3 360 560 10 4 480 610 10 4 480 660 12 5 600	510 8 3 360 340 560 10 4 480 460 610 10 4 480 460 660 12 5 600 580

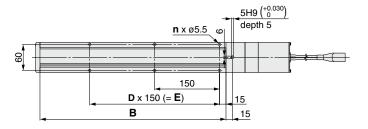


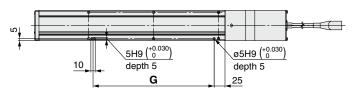
11-LEFS32









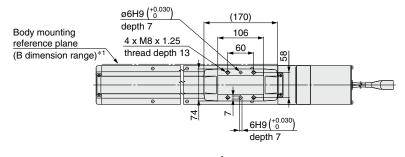


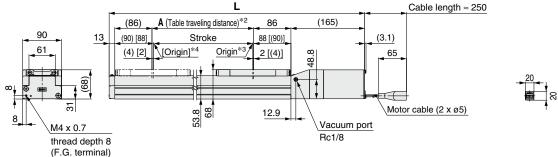
- *1 When mounting the actuator using the body mounting reference plane, set the height of the opposite surface or pin to be 3 mm or more because of round chamfering. (Recommended height: 5 mm)
 - In addition, be aware that surfaces other than the body mounting reference plane (B dimension range) may slightly protrude from the body mounting reference plane. Be sure to provide a clearance of 1 mm or more to avoid interference with workpieces, facilities, etc.
- *2 This is the distance within which the table can move when it returns to origin.
 - Make sure that workpieces mounted on the table do not interfere with other workpieces or the facilities around the table.
- *3 Position after returning to origin
- *4 [] for when the direction of return to origin has changed
- *5 When using the body bottom positioning pin holes, do not simultaneously use the housing B bottom pin hole.

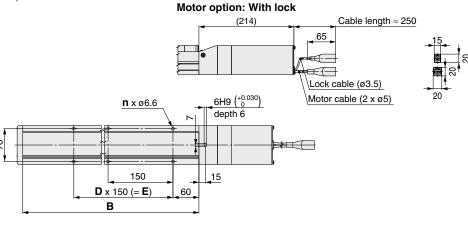
Dimensions								[mm]
Model	Without lock	L Nithout lock With lock		В	n	D	E	G
11-LEFS□32□-50□	332	384	56	180	4	_	_	130
11-LEFS□32□-100□	382	434	106	230	4	_	_	130
11-LEFS□32□-150□	432	484	156	280	4	_	_	130
11-LEFS□32□-200□	482	534	206	330	6	2	300	280
11-LEFS□32□-250□	532	584	256	380	6	2	300	280
11-LEFS□32□-300□	582	634	306	430	6	2	300	280
11-LEFS□32□-350□	632	684	356	480	8	3	450	430
11-LEFS□32□-400□	682	734	406	530	8	3	450	430
11-LEFS□32□-450□	732	784	456	580	8	3	450	430
11-LEFS□32□-500□	782	834	506	630	10	4	600	580
11-LEFS□32□-550□	832	884	556	680	10	4	600	580
11-LEFS□32□-600□	882	934	606	730	10	4	600	580
11-LEFS□32□-650□	932	984	656	780	12	5	750	730
11-LEFS□32□-700□	982	1034	706	830	12	5	750	730
11-LEFS□32□-750□	1032	1084	756	880	12	5	750	730
11-LEFS□32□-800□	1082	1134	806	930	14	6	900	880
								050

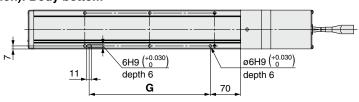


11-LEFS40









- *1 When mounting the actuator using the body mounting reference plane, set the height of the opposite surface or pin to be 3 mm or more because of round chamfering. (Recommended height: 5 mm) In addition, be aware that surfaces other than the body mounting reference plane (B dimension range) may slightly protrude from the body mounting reference plane. Be sure to provide a clearance of 1 mm or more to avoid interference with workpieces, facilities, etc.
- *2 This is the distance within which the table can move when it returns to origin. Make sure that workpieces mounted on the table do not interfere with other workpieces or the facilities around the table.
- *3 Position after returning to origin
- *4 [] for when the direction of return to origin has changed
- *5 When using the body bottom positioning pin holes, do not simultaneously use the housing B bottom pin hole.

Dimensions								[mm]
Model	Without lock	With lock	Α	В	n	D	E	G
11-LEFS□40□-150□	506	555	156	328	4	_	150	130
11-LEFS□40□-200□	556	605	206	378	6	2	300	280
11-LEFS□40□-250□	606	655	256	428	6	2	300	280
11-LEFS□40□-300□	656	705	306	478	6	2	300	280
11-LEFS□40□-350□	706	755	356	528	8	3	450	430
11-LEFS□40□-400□	756	805	406	578	8	3	450	430
11-LEFS□40□-450□	806	855	456	628	8	3	450	430
11-LEFS□40□-500□	856	905	506	678	10	4	600	580
11-LEFS□40□-550□	906	955	556	728	10	4	600	580
11-LEFS□40□-600□	956	1005	606	778	10	4	600	580
11-LEFS□40□-650□	1006	1055	656	828	12	5	750	730
11-LEFS□40□-700□	1056	1105	706	878	12	5	750	730
11-LEFS□40□-750□	1106	1155	756	928	12	5	750	730
11-LEFS□40□-800□	1156	1205	806	978	14	6	900	880
11-LEFS□40□-850□	1206	1255	856	1028	14	6	900	880
11-LEFS□40□-900□	1256	1305	906	1078	14	6	900	880
11-LEFS□40□-950□	1306	1355	956	1128	16	7	1050	1030
11-LEFS□40□-1000□	1356	1405	1006	1178	16	7	1050	1030





Slider Type Ball Screw Drive Clean Room Specification

11-LEFS Series LEFS25, 32, 40

Refer to page 121 for model selection and page 939 for particle generation characteristics.

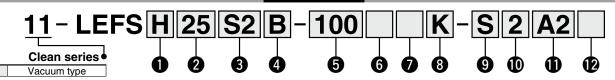




LECY□ Series ▶ p. 955

How to Order

* For details, refer to page 1343 and onward.



Nil

K

1 Ac	curacy
Nil	Basic type
Н	High-precision type

Siz	(
25	
32	
40	

	Lead [mr		
Symbol	11-LEFS25	11-LEFS32	11-LEFS40
Α	12	16	20
В	6	8	10

5 Str	oke [mm]*3
50	50
to	to
1000	1000

*3 For details, refer to the applicable stroke table below.

Housing B bottom

Body bottom

6 Motor option

V Va	cuum port*5, *6
Nil	Left
R	Right
D	Both left and right

Without option With lock

- *5 Select "D" for the vacuum port for suction of 50 L/min (ANR) or more.
- *6 Vacuum piping is only built in on the vacuum port side selected at the time of purchase. Note that after purchase, if suction is used on the port on the opposite side, the particle generation characteristics stated in the catalog may not apply.

To make any changes after purchase, be sure to contact SMC. R: Right



Symbol	Туре	Output [W]	2 Size	Driver type	Compatible drivers
S2*1	AC servo motor	100	25	A1/A2	LECSA□-S1
S3	(Incremental	200	32	A1/A2	LECSA□-S3
S4	encoder)	400	40	A2	LECSA2-S4
				B2	LECSB2-T5
T6*2		100	25	C2	LECSC2-T5
				S2	LECSS2-T5
	AC servo motor			B2	LECSB2-T7
T7	(Absolute	200	0 25 A1/A2 LECS 0 32 A1/A2 LECS 0 40 A2 LECS 0 25 C2 LECS 0 25 C2 LECS 0 32 C2 LECS 0 32 C2 LECS 0 32 C2 LECS 0 32 C2 LECS 0 40 C2 LECS	LECSC2-T7	
	encoder)		S2	LECSS2-T7	
				B2	LECSB2-T8
T8		400	40	C2	LECSC2-T8
				S2	LECSS2-T8

- *1 For motor type S2, the compatible driver part number suffix is S1.
- *2 For motor type T6, the compatible driver part number is LECS□2-T5.

9 Ca	ble type*8, *9	(🛈 Cal	ble length [m]
Nil Without cable			Nil	Without cable
S	Standard cable		2	2 m
R	Robotic cable		5	5 m
*8 A mc	tor cable and encoder cable		Α	10 m

*10 The length of the encoder, motor, and lock cables are the same.

Driver type*11

Positioning pin hole

Housing B

bottom*7

Body bottom

2 locations

*7 Refer to the body mounting example on

page 280 for the mounting method.

	Compatible	Power supply		Size	
	drivers	voltage [V]	25	32	40
Nil	Without driver	_		•	
A1	LECSA1-S□	100 to 120	•	•	_
A2	LECSA2-S□	200 to 230		•	•
B2	LECSB2-T□	200 to 240		•	•
C2	LECSC2-T□	200 to 230		•	•
S2	LECSS2-T□	200 to 240	•	•	•

When a driver type is selected, a cable is included. Select the cable type and cable length. Example) S2S2: Standard cable (2 m) + Driver (LECSS2)

: Standard

S2: Standard cable (2 m) Nil: Without cable and driver

1 /0	I/O cable length [m]*12								
Nil Without cable									
Н	Without cable (Connector only)								
1	1.5								

*12 When "Nil: Without driver" is selected for the driver type, only "Nil: Without cable" can be selected.

Refer to page 1124 if an I/O cable is

(Options are shown on page 1124.)

Applicable Stroke Table*4

page 1123 for details.)

are included with the product. (A

lock cable is also included if motor

"(B) Counter axis side." (Refer to

option "B: With lock" is selected.)

*9 Standard cable entry direction is

7 1P P 11 5 41 10 10		•																• • •		
Stroke [mm] Model	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
11-LEFS25								•					_	_	_	_	_	_	_	_
11-LEFS32																	—	_	_	_
11-LEFS40																				

*4 Please contact SMC for non-standard strokes as they are produced as special orders.

Support Guide/11-LEFG Series

The support guide was designed to support workpieces with significant overhang. p. 961



Compatible Drivers

Compandic Differs				
Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	SSCNETIIIH type
Series	LECSA	LECSB-T	LECSC-T	LECSS-T
Number of point tables	Up to 7	Up to 255	Up to 255 (2 stations occupied)	_
Pulse input	0	0	_	_
Applicable network	_	_	CC-Link	SSCNETⅢ/H
Control encoder	Incremental 17-bit encoder	Absolute 22-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder
Communication function	USB communication	USB communication, RS422 communication	USB communication, RS422 communication	USB communication
Power supply voltage [V]	100 to 120 VAC (50/60 Hz) 200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)	200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)
Reference page		11	09	

Specifications

11-LEFS25, 32, 40 AC Servo Motor

		Model		11-LEFS	25S2/T6	11-LEFS	32S3/T7	11-LEFS	40S4/T8			
	Stroke [mm]*1		50 to	600	50 to	800	150 to	1000			
	Work load [ka1*2	Horizontal	20	20	40	45	50	60			
	work load [Kgj -	Vertical	8	15	10	20	15	30			
			Up to 400	900	450	1000	500	1000	500			
			401 to 500	720	360	1000	500	1000	500			
	*3		501 to 600	540	270	800	400	1000	500			
	Max. speed	Stroke	601 to 700	_	_	620	310	940	470			
	[mm/s]	range	701 to 800	_	_	500	250	760	380			
			801 to 900	_	_	_	_	620	310			
l S			901 to 1000	_	_	_	_	520	260			
유	Max. accele	ration/de	celeration [mm/s ²]	500	0 (Refer to pages	123 to 125 for lim	t according to wor	k load and duty ra	tio.)			
S	Positioning	repeatab	ility Basic type			±0	.02					
 	[mm]		High-precision type			±0	.01					
ĕ	Lost motion	. [mm]*4	Basic type			0.1 o	r less					
	LOST IIIOTIOI	. []	High-precision type		0.05 or less							
유	Lead [mm]			12	6	16	8	20	10			
Ĕ	Impact/Vibr	ation res	sistance [m/s²]*5			50	/20					
Ac	Actuation ty	уре				Balls	screw					
	Guide type			Linear guide								
	Static allow	able	Mep (Pitching)	2	7		6	11				
	moment*6		Mey (Yawing)	2				11	10			
	[N·m]		Mer (Rolling)	52 101 207								
				5 to 40								
	Operating h	umidity	range [%RH]	90 or less (No condensation)								
	Cloonliness	oloco*7		ISO Class 4 (ISO 14644-1)								
	Cleaniness	Class				Class 10 (Fe	ed.Std.209E)					
	Grease	Ball screw	/Linear guide portion			Low particle ge	neration grease					
U,		ut/Size		100 V	V/□40	200 V	V/□60	400 W	/ /□60			
5 ر	Motor type					AC servo motor	(100/200 VAC)					
i i				Mo	tor type S2, S3, S	4: Incremental 17	bit encoder (Resc	lution: 131072 p/r	ev)			
<u>8</u>	Encoder*10							ev) (For LECSB2-7				
Шξ	3			Motor type	T6, T7, T8: Absol	ute 18-bit encode	(Resolution: 2621	44 p/rev) (For LE	CSC2-T□)			
U.	Power [W]*	8		,,				. , ,				
2	Type*9			max. po				max. por				
턃	Holding for	ce [N]		131	255			330	660			
충블	Power [W]					-						
2 8	Bated volta			<u> </u>				,	.~			
Electric	Impact/Vibr Actuation ty Guide type Static allow moment*6 [N·m] Operating ty Operating ty Cleanliness Grease In Motor output Motor type Encoder*10	ation res //pe able emperatu umidity class*7 Ball screw ut/Size 8 ce [N] at 20°C	High-precision type sistance [m/s²]*5 Mep (Pitching) Mey (Yawing) Mer (Rolling) ure range [°C] range [%RH]	100 V Motor type T6, T7 Motor type Worth type T6, T7	7 7 7 2 2 W/□40 stor type S2, S3, S 7, T8: Absolute 22- 8 T6, T7, T8: Absol wer 445	0.05 of 16 50 Ball s Linear 4 4 11 5 to 90 or less (No ISO Class 4 (Class 10 (Fe Low particle ge 200 V AC servo motor 4: Incremental 17 bit encoder (Resolute 18-bit encoder Non-magn 197	or less 8 /20 ccrew guide 6 6 0 10 0 40 condensation) ISO 14644-1) ed.Std.209E) meration grease //□60 / (100/200 VAC) -bit encoder (Rescution: 4194304 p/r / (Resolution: 262* wer 725 etizing lock 385	400 W lution: 131072 p/rev) (For LECSB2-1	10 10 10 10 10 10 10 10			

- *1 Please contact SMC for non-standard strokes as they are produced as special orders.
- *2 For details, refer to the "Speed-Work Load Graph (Guide)" on page 122.
- *3 The allowable speed changes according to the stroke.
- *4 A reference value for correcting errors in reciprocal operation
- *5 Impact resistance: No malfunction occurred when the actuator was tested with a drop tester in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)

Vibration resistance: No malfunction occurred in a test ranging between 45 to 2000 Hz. The test was performed in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)

- *6 The static allowable moment is the amount of static moment which can be applied to the actuator when it is stopped.

 If the product is exposed to impact or repeated load, be sure to take
- adequate safety measures when using the product.

 *7 The amount of particle generation changes according to the operating conditions and suction flow rate. Refer to the particle generation characteristics for details.
- *8 Indicates the max. power during operation (including the driver)
 When selecting the power supply capacity, refer to the power supply
 capacity in the operation manual of each driver.
- *9 Only when motor option "With lock" is selected
- *10 For motor type T6, T7, and T8, the resolution will change depending on the driver type.

Weight

Series	;					1	1-LEF	S25S					
Stroke [mm]		50	100	150	200	250	300	350	400	450	500	550	600
Motor type	S2	2.00	2.14	2.28	2.44	2.56	2.69	2.84	2.99	3.12	3.24	3.40	3.54
Motor type	T6	2.04	2.18	2.32	2.48	2.60	2.73	2.88	3.03	3.16	3.28	3.44	3.58
Additional with lock [kg		S2: 0.2/T6: 0.3											

Series	;							1	1-LEF	S32S							
Stroke [n	nm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Motor tuno	S3	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40
Motor type	T7	3.31	3.51	3.71	3.91	4.11	4.31	4.51	4.71	4.91	5.11	5.31	5.51	5.71	5.91	6.11	6.31
Additional weight with lock [kg]									S3: 0.4	/T7: 0.5							

Series	3								1	1-LEF	S40S]							
Stroke [r	nm]	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
Motor type	S4	5.82	6.10	6.38	6.65	6.95	7.25	7.51	7.80	8.07	8.25	8.63	8.90	9.20	9.45	9.76	10.05	10.32	10.60
Motor type	T8	5.91	6.19	6.47	6.74	7.04	7.34	7.60	7.89	8.16	8.34	8.72	8.99	9.29	9.54	9.85	10.14	10.41	10.69
Additional with lock [k		S4: 0.5/T8: 0.5																	

Slider Type Ball Screw Drive Clean Room Specification

6 Motor option

Nil Without option

With lock

11-LEFS Series LEFS25, 32, 40

Refer to page 129 for model selection and page 939 for particle generation characteristics.

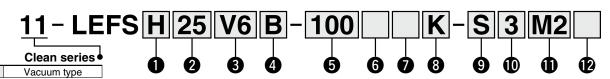


1343 and onward.



LECS□ Series ▶ p. 953

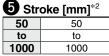
How to Order



U Ac	curacy	(
Nil	Basic type	
Н	High-precision type	

Siz	(
25	
32	
40	

	Lead [m		
Symbol	11-LEFS25	11-LEFS32	11-LEFS40
Α	12	16	20
В	6	8	10



*2 For details, refer to the applicable stroke table below.

Vacuum port*4, *5

Vacuum port								
Nil	Left							
R	Right							
D	Both left and right							

3 Motor type

Symbol	Type	Output [W]	2 Size	Driver type	Compatible drivers
V6*1		100	25	M2	LECYM2-V5
VO	10	100	25	U2	LECYU2-V5
V7	AC servo motor (Absolute	200	32	M2	LECYM2-V7
V /	encoder)		32	U2	LECYU2-V7
V8	encoder)	400	40	M2	LECYM2-V8
VO		400	40	U2	LECYU2-V8

*1 For motor type V6, the compatible driver part number suffix is V5.

Positioning pin hole

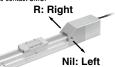
Nil	Housing B bottom*6	Housing B bottom
K	Body bottom 2 locations	Body bottom
*6 Dofor	to the hady may	nting example on page

Refer to the body mounting example on page 280 for the mounting method.

*4 Select "D" for the vacuum port for suction of 50 L/min (ANR) or more.

*5 Vacuum piping is only built in on the vacuum port side selected at the time of purchase. Note that after purchase, if suction is used on the port on the opposite side, the particle generation characteristics stated in the catalog may not apply.

To make any changes after purchase, be sure to contact SMC



9 Cable type*7, *8

Nil	Without cable			
S Standard cable				
R	Robotic cable			

- *7 A motor cable and encoder cable are included with the product. (A lock cable is also included if motor option "B: With lock" is selected.)
- *8 Standard cable entry direction is "(B) Counter axis side." (Refer to page 1134 for details.)

(II) Actuator cable length [m]

	<u> </u>
Nil	Without cable
3	3
5	5
Α	10
С	20

12 I/O cable length [m]*10

Nil	Without cable
Н	Without cable (Connector only)
1	1.5

*10 When "Nil: Without driver" is selected for the driver type, only "Nil: Without cable" can be selected.

Refer to page 1135 if an I/O cable is required.

(Options are shown on page 1135.)

Standard

Driver type*9

	Compatible drivers	Power supply voltage [V]
Nil	Without driver	_
M2	LECYM2-V□	200 to 230
U2	LECYU2-V□	200 to 230

*9 When a driver type is selected, a cable is included. Select the cable type and cable length.

Applicable Stroke Table*3

		•																• • •	J	
Stroke Model [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
11-LEFS25			•		•			•		•			_	_	_	 —		_	_	 —
11-LEFS32		•	•	•	•	•	•	•		•	•	•		•		•	_	_	_	
11-LEFS40		_			•					•	•		•			•				

*3 Please contact SMC for non-standard strokes as they are produced as special orders.

Support Guide/11-LEFG Series

The support guide was designed to support workpieces with significant

overhang. p. 961



Compatible Drivers

Driver type	MECHATROLINK-II type	MECHATROLINK-Ⅲ type
Series	LECYM	LECYU
Applicable network	MECHATROLINK-Ⅱ	MECHATROLINK-Ⅲ
Control encoder		olute encoder
Communication device	USB communication, I	RS-422 communication
Power supply voltage [V]	200 to 230 V	AC (50/60 Hz)
Reference page		128



Specifications

AC Servo Motor

	Model		11-LEF	S25□V6	11-LEF	S32□V7	11-LEF9	540□V8						
Stroke [mm]*1		50 to	800	50 to	1000	150 to	1200						
Work load [lea1*2	Horizontal	20	20	40	45	50	60						
work load [#3 Stroke range Stroke range Stroke range Figure		8	15	10	20	15	30						
		Up to 400	900	450	1000	500	1000	500						
		401 to 500	720	360	1000	500	1000	500						
		501 to 600	540	270	800	400	1000	500						
*3		601 to 700	420	210	620	310	940	470						
Max. speed		701 to 800	330	160	500	250	760	380						
[mm/s]	range	801 to 900	_	_	410	200	620 310							
		901 to 1000	_	_	340	170	520 260							
		1001 to 1100	_	_	_	_	440	440 220						
		1101 to 1200	- - - 380 190											
Max. accele	ration/decele	eration [mm/s ²]	20000 (Refer to pages 123 to 125 for limit according to work load and duty ratio.)											
Positioning	repeatability	Basic type			±().02								
[mm]		High-precision type	±0.01											
Lost motion	. [m.m.]*4	Basic type	0.1 or less											
LOSI IIIOLIOI	ı [mm]	High-precision type	0.05 or less											
Lead [mm]			12	6	16	8	20	10						
Impact/Vibr	ation resista	nce [m/s ²]*5	50/20											
Actuation ty	ype		Ball screw (LEFS \square), Ball screw + Belt (LEFS \square ^R)											
Guide type					Linea	r guide								
Static allow	able Mo	ep (Pitching)		.7		46	110							
moment*6	Me	ey (Yawing)	2	.7		46	11	10						
[N·m]	Me	er (Rolling)	5	2	1	01	20)7						
Operating t	emperature	range [°C]			5 t	o 40								
Operating h	umidity rang	ge [%RH]			90 or less (No	condensation)								
Cleanliness	class*7					(ISO 14644-1) ed.Std.209E)								
Grease	Ball screw /Line	ear guide portion			Low particle ge	eneration grease								
Motor outp	ut/Size		100 V	V/□40	200 \	N/□60	400 V	/ /□60						
Motor type					AC servo mo	otor (200 VAC)								
Encoder				Absolut	e 20-bit encoder (Resolution: 104857	76 p/rev)							
Motor outpo Motor type Encoder Power [W]*	8		Max. po	wer 445		ower 725	Max. pov	ver 1275						
Type*9 Holding for Power [W] a			•		Non-magr	netizing lock	•							
Holding for	ce [N]		131	255	197	385	330	660						
Power [W] a	t 20°C		5.5 6 6											
			24 VDC +10%											

- *1 Please contact SMC for non-standard strokes as they are produced as special orders.
- *2 For details, refer to the "Speed-Work Load Graph (Guide)" on page 130.
- *3 The allowable speed changes according to the stroke.
- *4 A reference value for correcting errors in reciprocal operation
- *5 Impact resistance: No malfunction occurred when the actuator was tested with a drop tester in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.) Vibration resistance: No malfunction occurred in a test ranging between 45 to 2000 Hz. The test was performed in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)
- *6 The static allowable moment is the amount of static moment which can be applied to the actuator when it is stopped.
 - If the product is exposed to impact or repeated load, be sure to take adequate safety measures when using the product.
- The amount of particle generation changes according to the operating conditions and suction flow rate. Refer to the particle generation characteristics for details.
- *8 Indicates the max. power during operation (including the driver) When selecting the power supply capacity, refer to the power supply capacity in the operation manual of each driver.
- *9 Only when motor option "With lock" is selected

Weight

Series							11	-LEF	325 □	V6						
Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Product weight [kg]	2.06	2.20	2.34	2.50	2.62	2.75	2.90	3.05	3.18	3.30	3.46	3.60	3.74	3.88	4.02	4.20
Additional weight with lock [kg]		0.3														

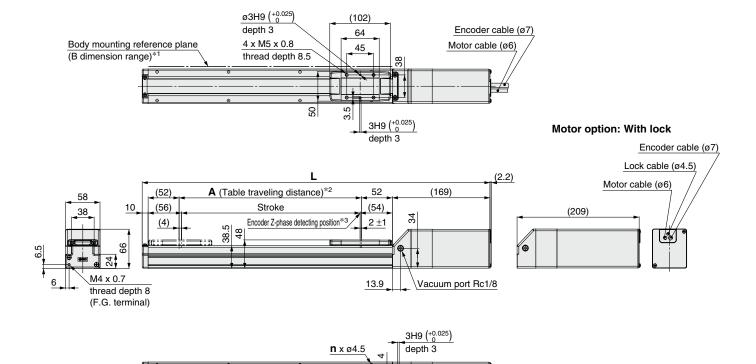
Series									11	-LEF	\$32 □	V7								
Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
Product weight [kg]	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00	7.20
Additional weight with lock [kg]										0.	.7									

Series									11	-LEF	\$40□	V8								
Stroke [mm]	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1100	1200
Product weight [kg]	5.92	6.20	6.48	6.75	7.05	7.35	7.61	7.90	8.17	8.35	8.73	9.00	9.30	9.55	9.86	10.15	10.42	10.70	11.26	11.82
Additional weight with lock [kg]		0.7																		

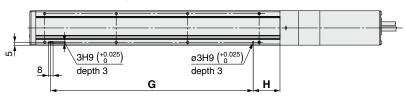




11-LEFS25



Positioning pin hole*4 (Option): Body bottom



120

- *1 When mounting the actuator using the body mounting reference plane, set the height of the opposite surface or pin to be 3 mm or more because of round chamfering. (Recommended height: 5 mm)
 - In addition, be aware that surfaces other than the body mounting reference plane (B dimension range) may slightly protrude from the body mounting reference plane. Be sure to provide a clearance of 1 mm or more to avoid interference with workpieces, facilities, etc.

10

- *2 This is the distance within which the table can move when it returns to origin.
 - Make sure that workpieces mounted on the table do not interfere with other workpieces or the facilities around the table.
- *3 The Z-phase first detecting position from the stroke end of the motor side
- *4 When using the body bottom positioning pin holes, do not simultaneously use the housing B bottom pin hole.

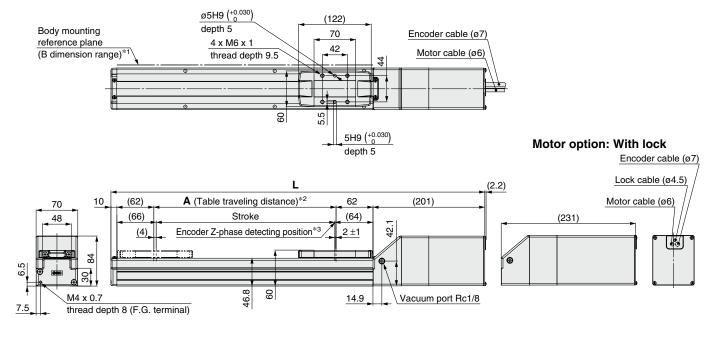
 $D \times 120 (= E)$

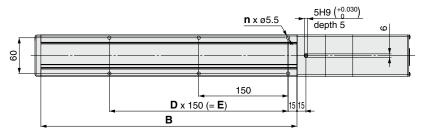
В

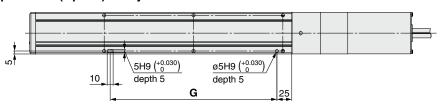
Dimensions										[mm]
Model	Without lock	With lock	Α	В	n	D	E	F	G	Н
11-LEFS□25□□-50□	339	379	56	160	4	_	_	20	100	30
11-LEFS□25□□-100□	389	429	106	210	4	_	_		100	45
11-LEFS□25□□-150□	439	479	156	260	4	_	_		100	45
11-LEFS□25□□-200□	489	529	206	310	6	2	240		220	45
11-LEFS□25□□-250□	539	579	256	360	6	2	240		220	45
11-LEFS□25□□-300□	589	629	306	410	8	3	360		340	45
11-LEFS□25□□-350□	639	679	356	460	8	3	360	35	340	45
11-LEFS□25□□-400□	689	729	406	510	8	3	360		340	45
11-LEFS□25□□-450□	739	779	456	560	10	4	480		460	45
11-LEFS□25□□-500□	789	829	506	610	10	4	480		460	45
11-LEFS□25□□-550□	839	879	556	660	12	5	600		580	45
11-LEFS□25□□-600□	889	929	606	710	12	5	600		580	45



11-LEFS32





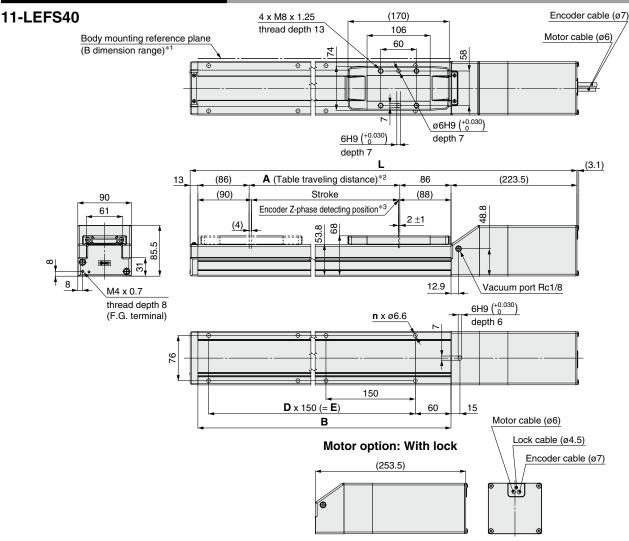


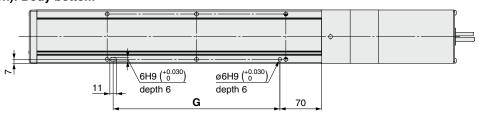
- *1 When mounting the actuator using the body mounting reference plane, set the height of the opposite surface or pin to be 3 mm or more because of round chamfering. (Recommended height: 5 mm)
 - In addition, be aware that surfaces other than the body mounting reference plane (B dimension range) may slightly protrude from the body mounting reference plane. Be sure to provide a clearance of 1 mm or more to avoid interference with workpieces, facilities, etc.
- *2 This is the distance within which the table can move when it returns to origin. Make sure that workpieces mounted on the table do not interfere with other workpieces or the facilities around the table.
- *3 The Z-phase first detecting position from the stroke end of the motor side
- *4 When using the body bottom positioning pin holes, do not simultaneously use the housing B bottom pin hole.

Dimensions								[mm]
Model	Without lock	With lock	Α	В	n	D	E	G
11-LEFS□32□□-50□	391	421	56	180	4	_	_	130
11-LEFS□32□□-100□	441	471	106	230	4	_	_	130
11-LEFS 32 -150	491	521	156	280	4	_	_	130
11-LEFS□32□□-200□	541	571	206	330	6	2	300	280
11-LEFS□32□□-250□	591	621	256	380	6	2	300	280
11-LEFS□32□□-300□	641	671	306	430	6	2	300	280
11-LEFS□32□□-350□	691	721	356	480	8	3	450	430
11-LEFS□32□□-400□	741	771	406	530	8	3	450	430
11-LEFS□32□□-450□	791	821	456	580	8	3	450	430
11-LEFS□32□□-500□	841	871	506	630	10	4	600	580
11-LEFS□32□□-550□	891	921	556	680	10	4	600	580
11-LEFS□32□□-600□	941	971	606	730	10	4	600	580
11-LEFS□32□□-650□	991	1021	656	780	12	5	750	730
11-LEFS□32□□-700□	1041	1071	706	830	12	5	750	730
11-LEFS□32□□-750□	1091	1121	756	880	12	5	750	730
11-LEFS□32□□-800□	1141	1171	806	930	14	6	900	880









- *1 When mounting the actuator using the body mounting reference plane, set the height of the opposite surface or pin to be 3 mm or more because of round chamfering.
 - (Recommended height: 5 mm)
 - In addition, be aware that surfaces other than the body mounting reference plane (B dimension range) may slightly protrude from the body mounting reference plane. Be sure to provide a clearance of 1 mm or more to avoid interference with workpieces, facilities, etc.
- *2 This is the distance within which the table can move when it returns to origin. Make sure that workpieces mounted on the table do not interfere with other workpieces or the facilities around the table.
- *3 The Z-phase first detecting position from the stroke end of the motor side
- *4 When using the body bottom positioning pin holes, do not simultaneously use the housing B bottom pin hole.

Dimensions								[mm]
Model	L		Α	В	n	D	Е	G
	Without lock	With lock						
11-LEFS□40□□-150□	564.5	594.5	156	328	4		150	130
11-LEFS□40□□-200□	614.5	644.5	206	378	6	2	300	280
11-LEFS□40□□-250□	664.5	694.5	256	428	6	2	300	280
11-LEFS□40□□-300□	714.5	744.5	306	478	6	2	300	280
11-LEFS□40□□-350□	764.5	794.5	356	528	8	3	450	430
11-LEFS□40□□-400□	814.5	844.5	406	578	8	3	450	430
11-LEFS□40□□-450□	864.5	894.5	456	628	8	3	450	430
11-LEFS□40□□-500□	914.5	944.5	506	678	10	4	600	580
11-LEFS□40□□-550□	964.5	994.5	556	728	10	4	600	580
11-LEFS□40□□-600□	1014.5	1044.5	606	778	10	4	600	580
11-LEFS□40□□-650□	1064.5	1094.5	656	828	12	5	750	730
11-LEFS□40□□-700□	1114.5	1144.5	706	878	12	5	750	730
11-LEFS□40□□-750□	1164.5	1194.5	756	928	12	5	750	730
11-LEFS□40□□-800□	1214.5	1244.5	806	978	14	6	900	880
11-LEFS□40□□-850□	1264.5	1294.5	856	1028	14	6	900	880
11-LEFS□40□□-900□	1314.5	1344.5	906	1078	14	6	900	880
11-LEFS□40□□-950□	1364.5	1394.5	956	1128	16	7	1050	1030
11-LEFS□40□□-1000□	1414.5	1444.5	1006	1178	16	7	1050	1030





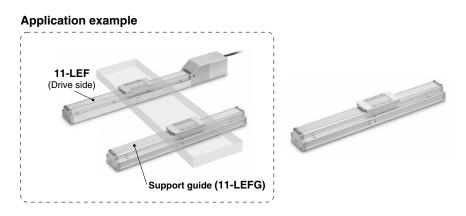
Support Guide for Ball Screw Drive Actuator

11-LEFG Series 11-LEFG16, 25, 32, 40

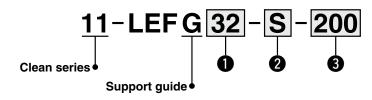
(RoHS)

The support guide was designed to support workpieces with significant overhang.

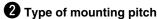
- As the dimensions are the same as the 11-LEF series body, installation is simple and contributes to a reduction in installation and assembly labor.
- The standard-equipped seal bands prevent grease from splashing and external foreign matter from entering.



How to Order



Size 16 25 32 40



אני 🗨	e or inour	iting pitci	11			
Symbol	11-LEFG16	11-LEFG25	11-LEFG32	11-LEFG40		Applicable model
s	•	•	•	•	For ball screw drive	Step motor 24 VDC (Incremental), Servo motor 24 VDC, AC servo motor

3 Str	oke [mm]
50	50

9 311	oke [iiiiii]
50	50
to	to
1000	1000

Applicable Stroke Table

For Ball Screw Drive: S

Stroke Model [mm]		100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
11-LEFG16-S	•	•	•	•	•	•	•	•	•	•	_	_	_	_	_	_	_	_	_	_
11-LEFG25-S	•	•	•	•	•	•	•	•	•	•	•	•	_	_	_	_	_	_	_	_
11-LEFG32-S	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	_	_	_	_
11-LEFG40-S	_	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Weight

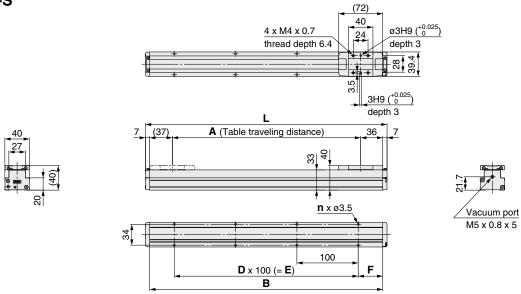
For Ball Screw Drive: S

Stroke Model [mm]		100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
11-LEFG16-S	0.25	0.31	0.37	0.43	0.49	0.55	0.61	0.67	0.73	0.79	_	_	_	_	_	_	_	_	_	_
11-LEFG25-S	0.56	0.67	0.78	0.89	1.00	1.11	1.22	1.33	1.44	1.55	1.66	1.77	_	_	_	_	_	_	_	_
11-LEFG32-S	0.92	1.08	1.23	1.4	1.56	1.72	1.88	2.04	2.20	2.36	2.52	2.88	2.84	3.00	3.16	3.22	_	_	_	_
11-LEFG40-S	_	_	2.07	2.29	2.51	2.72	2.94	3.15	3.37	3.58	3.80	4.01	4.23	4.44	4.66	4.87	5.09	5.30	5.52	5.73

Support Guide for Ball Screw Drive Actuator 11-LEFG Series

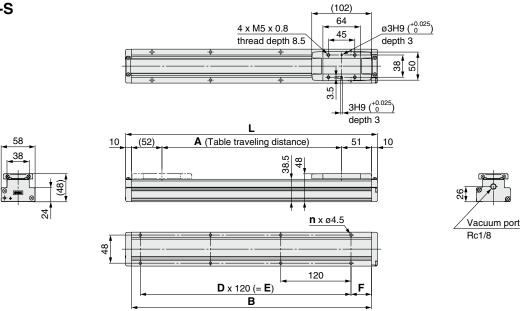
Dimensions: For Ball Screw Drive

11-LEFG16-S



Dimensions							[mm]
Model	L	Α	В	n	D	E	F
11-LEFG16-S-50	144	57	130				15
11-LEFG16-S-100	194	107	180	4	—	—	
11-LEFG16-S-150	244	157	230				
11-LEFG16-S-200	294	207	280	6	2	200	
11-LEFG16-S-250	344	257	330	0	~	200	
11-LEFG16-S-300	394	307	380	8	3	300	40
11-LEFG16-S-350	444	357	430	0	٥	300	
11-LEFG16-S-400	494	407	480	10	4	400	
11-LEFG16-S-450	544	457	530	10	4	400	
11-LEFG16-S-500	594	507	580	12	5	500	





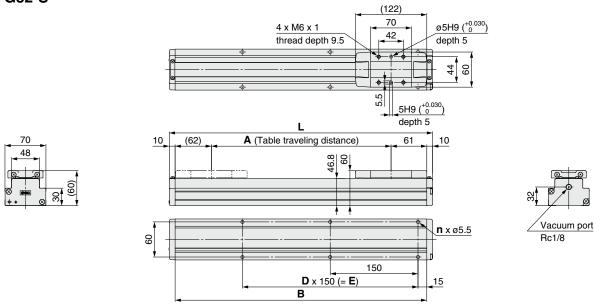
Dimensions							[mm]
Model	L	Α	В	n	D	Е	F
11-LEFG25-S-50	180	57	160				20
11-LEFG25-S-100	230	107	210	4	—	_	
11-LEFG25-S-150	280	157	260				
11-LEFG25-S-200	330	207	310	6	2	240	
11-LEFG25-S-250	380	257	360	٥	-	240	35
11-LEFG25-S-300	430	307	410				
11-LEFG25-S-350	480	357	460	8	3	360	
11-LEFG25-S-400	530	407	510				

Dimensions							[mm]
Model	L	Α	В	n	D	E	F
11-LEFG25-S-450	580	457	560	10	4	480	35
11-LEFG25-S-500	630	507	610	10	4	400	
11-LEFG25-S-550	680	557	660	12	5	600	33
11-LEFG25-S-600	730	607	710	12	5	600	

11-LEFG Series

Dimensions: For Ball Screw Drive

11-LEFG32-S



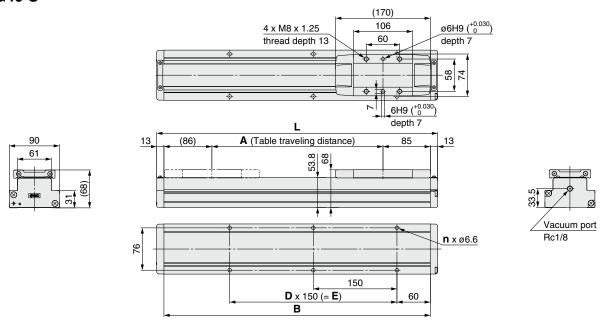
Dimensions						[mm]
Model	L	Α	В	n	D	E
11-LEFG32-S-50	200	57	180			
11-LEFG32-S-100	250	107	230	4	—	—
11-LEFG32-S-150	300	157	280			
11-LEFG32-S-200	350	207	330		2	300
11-LEFG32-S-250	400	257	380	6		
11-LEFG32-S-300	450	307	430			
11-LEFG32-S-350	500	357	480			
11-LEFG32-S-400	550	407	530	8	3	450
11-LEFG32-S-450	600	457	580			

Dimensions						[mm]
Model	L	Α	В	n	D	Е
11-LEFG32-S-500	650	507	630			
11-LEFG32-S-550	700	557	680	10	4	600
11-LEFG32-S-600	750	607	730			
11-LEFG32-S-650	800	657	780			
11-LEFG32-S-700	850	707	830	12	5	750
11-LEFG32-S-750	900	757	880		5	
11-LEFG32-S-800	950	807	930	14	6	900

Support Guide for Ball Screw Drive Actuator 11-LEFG Series

Dimensions: For Ball Screw Drive

11-LEFG40-S



Dimensions						[mm]
Model	L	Α	В	n	D	E
11-LEFG40-S-150	354	157	328	4	_	150
11-LEFG40-S-200	404	207	378			
11-LEFG40-S-250	454	257	428	6	2	300
11-LEFG40-S-300	504	307	478			
11-LEFG40-S-350	554	357	528			
11-LEFG40-S-400	604	407	578	8	3	450
11-LEFG40-S-450	654	457	628			
11-LEFG40-S-500	704	507	678			
11-LEFG40-S-550	754	557	728	10	4	600
11-LEFG40-S-600	804	607	778			

Dimensions						[mm]
Model	L	Α	В	n	D	Е
11-LEFG40-S-650	854	657	828			
11-LEFG40-S-700	904	707	878	12	5	750
11-LEFG40-S-750	954	757	928			
11-LEFG40-S-800	1004	807	978			
11-LEFG40-S-850	1054	857	1028	14	6	900
11-LEFG40-S-900	1104	907	1078			
11-LEFG40-S-950	1154	957	1128	16	7	1050
11-LEFG40-S-1000	1204	1007	1178	10	ı ′	1050

11-LEJS Series ▶ p. 967

Particle Generation Measuring Method

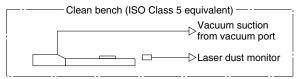
The particle generation data for the 11-LEJS series are measured in the following test method.

■ Test Method (Example)

Operate the specimen that is placed in an ISO Class 5 equivalent clean bench, and measure the changes of the particle concentration over time until the number of cycles reaches the specified point.

■ Measuring Conditions

Measuring instrument	Description	Laser dust monitor (Automatic particle counter using the light scattering method)
	Minimum measurable particle diameter	0.1 μm
	Suction flow rate	28.3 L/min (ANR)
Setting conditions	Sampling time	5 min
	Interval time	55 min
	Sampling air flow	141.5 L (ANR)



Particle generation measuring circuit

■Test Conditions

Size	Speed [mm/s]	Model	Workpiece mass [kg]	Acceleration [mm/s ²]	Duty ratio [%]
40	1200	11-LEJS40□A-200		13000	
40	600	11-LEJS40□B-200	4	10000	100
60	1200	11-LEJS63□A-300	4	13000	100
63	600	11-LEJS63□B-300		10000	

^{*} Mounting position: Horizontal

■ Evaluation Method

To obtain the measured values of particle concentration, the accumulated value*1 of particles captured every 5 minutes, by the laser dust monitor, is converted into the particle concentration in every 1 m³.

When determining particle generation grades, the 95% upper confidence limit of the average particle concentration (average value), when each specimen is operated at a specified number of cycles*2 is considered.

The plots in the graphs indicate the 95% upper confidence limit of the average particle concentration of particles with a diameter within the horizontal axis range.

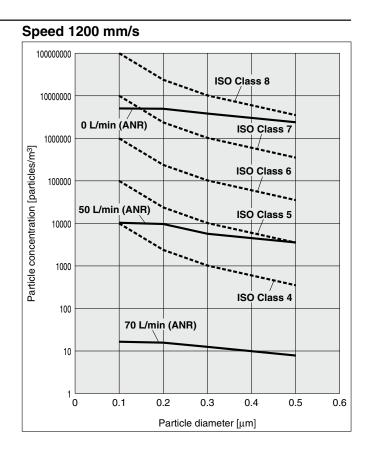
- *1 Sampling air flow rate: Number of particles contained in 141.5 L (ANR) of air
- *2 Actuator: 1 million cycles
- * The particle generation characteristics (page 966) provide a guide for selection but is not guaranteed.



Particle Generation Characteristics

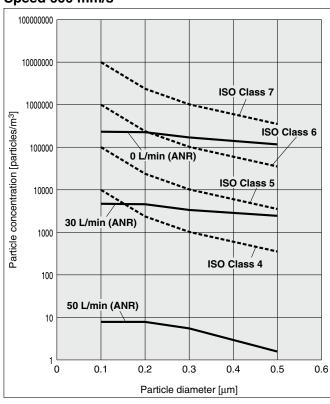
11-LEJS40/Ball Screw Drive

Speed 600 mm/s 100000000 10000000 ISO Class 7 1000000 Particle concentration [particles/m³] ISO Class 6 100000 ISO Class 5 10000 1000 20 L/min (ANR) ISO Class 4 100 30 L/min (ANR) 10 10 0.1 0.2 0.3 0.4 0.5 0.6 Particle diameter [µm]

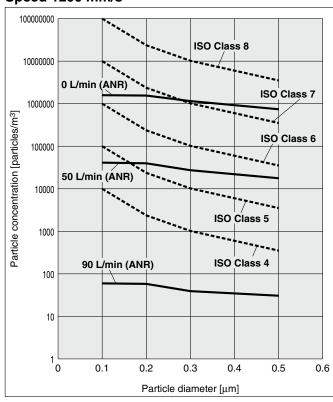


11-LEJS63/Ball Screw Drive





Speed 1200 mm/s





High Rigidity Slider Type

Ball Screw Drive Clean Room Specification

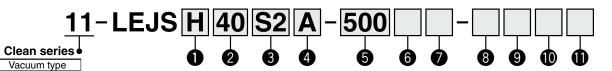
11-LEJS Series LEJS40, 63



Refer to page 289 for model selection and page 965 for particle generation characteristics.

LECY□ Series p. 969

How to Order



Accuracy

2 Size Nil Basic type High-precision type

5 Stroke [mm]*3

200	
to	
1500	
	Т

*3 Refer to the applicable stroke table for details.

6 Motor option Without option **3** Motor type

	Symbol	Type	Output [W]	2 Size	Driver type	Compatible drivers
ĺ	S2*1	AC servo motor	100	40	A1/A2	LECSA□-S1
	S3	(Incremental encoder)	200	63	A1/A2	LECSA□-S3
	T6*2		100	40	B2	LECSB2-T5
		AC servo motor			C2	LECSC2-T5
l					S2	LECSS2-T5
	Т7	(Absolute encoder)		63	B2	LECSB2-T7
			200		C2	LECSC2-T7
l					S2	LECSS2-T7
ı						

- *1 For motor type S2, the compatible driver part number suffix is S1.
- *2 For motor type T6, the compatible driver part number is LECS□2-T5.

4 Lead [mm]

Symbol	LEJS40	LEJS63
Α	16	20
В	8	10

9 Cable length [m]*7, *9

Nil	Without cable			
2	2 m			
5	5 m			
Α	10 m			

*9 The length of the motor, encoder, and lock cables are the same.

Vacuum port*5, *6

With lock

Tuoudin port							
Nil	Left						
R	Right						
D	Both left and right						



- *5 Select "D" for the vacuum port for suction of 50 L/min (ANR) or more. *6 Vacuum piping is only built in on the vacuum port side selected at the time
 - Note that after purchase, if suction is used on the port on the opposite side, the particle generation characteristics stated in the catalog may not apply. To make any changes after purchase, be sure to contact SMC.

Cable type*7, *8

Nil	Without cable				
S	Standard cable				
R	Robotic cable				

- *7 A motor cable and encoder cable are included with the product. (A lock cable is also included if motor option "B: With lock" is selected.)
- Standard cable entry direction is "(A) Axis side."

Driver type*10

	Compatible drivers	Power supply voltage [V]
Nil	Without driver	_
A 1	LECSA1-S□	100 to 120
A2	LECSA2-S□	200 to 230
B2	LECSB2-T□	200 to 240
C2	LECSC2-T□	200 to 230
S2	LECSS2-T□	200 to 240

*10 When a driver type is selected, a cable is included. Select the cable type and cable length.

Example) S2S2: Standard cable (2 m) + Driver (LECSS2)

S2: Standard cable (2 m)

Nil: Without cable and driver

I/O cable length [m]*11

Nil	Without cable						
Н	Without cable (Connector only						
1	1.5						

*11 When "Nil: Without driver" is selected for the driver type, only "Nil: Without cable" can be selected.

Refer to page 1124 if an I/O cable is required. (Options are shown on page 1124.)

Applicable Stroke Table*4

Applicable Stroke Table*⁴											
Stroke [mm] Model	200	300	400	500	600	700	800	900	1000	1200	1500
11-LEJS40				•	•	•	•	•	•	•	_
11-LEJS63	_				•		•	•	•	•	

*4 Please contact SMC for non-standard strokes as they are produced as special orders.

For auto switches, refer to pages 332 to 335.

Compatible Drivers

Pulse input type/ Positioning type Driver type		Pulse input type	CC-Link direct input type	SSCNETIII/H type			
Series	LECSA	LECSB-T LECSC-T		LECSS-T			
Number of point tables	Up to 7	Up to 255	Up to 255 (2 stations occupied)	_			
Pulse input	0	0	_	_			
Applicable network	_	_	CC-Link	SSCNET III/H			
Control encoder	Incremental 17-bit encoder	Absolute 22-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder			
Communication function	USB communication	USB communication, RS422 communication	USB communication, RS422 communication	USB communication			
Power supply voltage [V]	100 to 120 VAC (50/60 Hz) 200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)	200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)			
Reference page	1109						

Specifications

11-LEJS40, 63 AC Servo Motor

Model				11-LEJS	40S2/T6	11-LEJS63S3/T7			
	Stroke [mm]*	1		200, 300, 400, 50	00, 600, 700, 800	300, 400, 500, 600, 700, 800, 900			
	Stroke [iiiii]			900, 100	00, 1200	1000, 12	200, 1500		
	Work load [kg	1*2	Horizontal	30	55	45	85		
	Work load [kg]		Vertical	5	10	10	20		
			Up to 500	1200	600	1200	600		
			501 to 600	1050	520	1200	600		
			601 to 700	780	390	1200	600		
			701 to 800	600	300	930	460		
	0		801 to 900	480	240	740	370		
	Speed*3	Stroke range	901 to 1000	390	190	600	300		
o l	[mm/s]		1001 to 1100	320	160	500	250		
5			1101 to 1200	270	130	420	210		
specifications			1201 to 1300	_	_	360	180		
≟			1301 to 1400	_	_	310	150		
凉			1401 to 1500	_	_	270	130		
g	Max. accelera	tion/deceleration	on [mm/s²]	20000 (Refer to	pages 293 and 294 for lin	nit according to work loa	d and duty ratio.)		
	Positioning re		Basic type		±0.		,		
Actuator	[mm]	. ,	High-precision type	±0.01					
ਦ		344	Basic type	0.1 or less					
ď	Lost motion [mm] ^{~~}	High-precision type						
	Lead [mm]			16	8	20	10		
	Impact/Vibrat	ion resistance [[m/s ²]*5		50/	/20			
	Actuation typ	е		Ball screw					
	Guide type				Linear	guide			
	Grease	Ball screw/Lin	ear guide portion		Low particle ge	neration grease			
	Cleanliness c	lass*6			ISO Class 4 (ISO 14644-1)			
	Allowable ext	ernal force [N]		20					
	Operating ten	nperature range	e [°C]	5 to 40					
	Operating hu	midity range [%	RH]	90 or less (No condensation)					
	Regeneration	option		May be required depending on speed and work load (Refer to page 290.)					
S	Motor output	[W]/Size [mm]		100/□40 200/□60					
, 5 	Motor type			AC servo motor (100/200 VAC)					
ti i	ooi motor type			Motor type S2, S3: Incremental 17-bit encoder (Resolution: 131072 p/rev)					
<u>3</u> ≌				Motor type 76, T7: Absolute 22-bit encoder (Resolution: 4194304 p/rev) (For LECSB-T , LECSS-T)					
ᄪᇃ				Motor type T6, T7: Absolute 18-bit encoder (Resolution: 262144 p/rev) (For LECSC-T□)					
g	Power [W]*7			Max. power 445 Max. power 725					
တ္	Type*8			iviax. po	Non-magne		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
c unit	Holding force	[N]		101	203	330	660		
Lock	Power [W] at			6.3 330 660					
고 형				24 VDC ⁰ _{-10%}					
S	ਲੇ Rated voltage [V]			l	24 VD	· → -10%			

- *1 Please contact SMC for non-standard strokes as they are produced as special orders.
- *2 For details, refer to the "Speed-Work Load Graph (Guide)" on page 290.
- *3 The allowable speed changes according to the stroke.
- *4 A reference value for correcting errors in reciprocal operation
- *5 Impact resistance: No malfunction occurred when the actuator was tested with a drop tester in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)

Vibration resistance: No malfunction occurred in a test ranging between 45 to 2000 Hz. The test was performed in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)

*6 The amount of particle generation changes according to the operating conditions and suction flow rate. Refer to the particle generation characteristics for details.

- *7 Indicates the max. power during operation (including the driver) When selecting the power supply capacity, refer to the power supply capacity in the operation manual of each driver.
- *8 Only when motor option "With lock" is selected
- *9 The resolution will change depending on the driver type.
- * Sensor magnet position is located in the table center.
- For detailed dimensions, refer to the "Auto Switch Mounting Position" on page 332.

 * Do not allow collisions at either end of the table traveling distance. Addi-
- tionally, when running the positioning operation, do not set within 2 mm of both ends.
- For the manufacture of intermediate strokes, please contact SMC.
 (11-LEJS40/Manufacturable stroke range: 200 to 1200 mm, 11-LEJS63/Manufacturable stroke range: 300 to 1500 mm)

Weight

Model		11-LEJS40								
Stroke [mm]	200	300	400	500	600	700	800	900	1000	1200
Product weight [kg]	5.6	6.4	7.1	7.9	8.7	9.4	10.2	11.0	11.7	13.3
Additional weight with lock [kg]					S2: 0.2	/T6: 0.2				
44.5000										
Model					11-LE	<u> </u>				

Model					11-LE	JS63				
Stroke [mm]	300	400	500	600	700	800	900	1000	1200	1500
Product weight [kg]	11.4	12.7	13.9	15.2	16.4	17.7	18.9	20.1	22.6	26.4
Additional weight with lock [kg]					S3: 0.4	/T7: 0.4				



High Rigidity Slider Type

Ball Screw Drive Clean Room Specification

11-LEJS Series LEJS40, 63

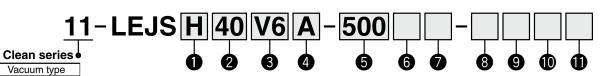
Refer to page 303 for model selection and page 965 for particle generation characteristics.

1343 and onward.

LECS□ Series p. 967

How to Order

Dimensions are the same as those of the LECS series. For details, refer to page 971 and onward.



Accuracy

Nil	Basic type
Н	High-precision type



Motor type*1

Symbol	Туре	Output [W]	2 Size	① Driver type	Compatible*2 drivers
V6		100	40	M2	LECYM2-V5
VO	AC servo motor	100		U2	LECYU2-V5
V7	(Absolute encoder)	200	60	M2	LECYM2-V7
V/		200	63	U2	LECYU2-V7

- *1 For motor type V6, the compatible driver part number suffix is V5.
- *2 For details on the driver, refer to page 1128.

4 Lead [mm]

Symbol	LEJS40	LEJS63
Α	16	20
В	8	10

5 Stroke [mm]*3

200
to
1500

*3 Refer to the applicable stroke table for details.

6 Motor option

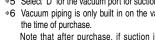
Nil	Without option
В	With lock

Vacuum port*5, *6

Nil	Left			
R	Right			
D	Both left and right			

- *5 Select "D" for the vacuum port for suction of 50 L/min (ANR) or more.
- *6 Vacuum piping is only built in on the vacuum port side selected at

Note that after purchase, if suction is used on the port on the opposite side, the particle generation characteristics stated in the catalog may not apply.



To make any changes after purchase, be sure to contact SMC.



8 Cable type*7, *8, *9

Nil	Without cable
S	Standard cable
R	Bobotic cable

- *7 When a driver type is selected, a cable is included. Select the cable type and cable length.
- A motor cable and encoder cable are included with the product. (A lock cable is also included if motor option "B: With lock" is selected.)
- *9 Standard cable entry direction is "(A) Axis side."

9 Cable length [m]*7, *10					
Nil	Without cable				
3	3				
5	5				
Α	10				
С	20				

*10 The length of the motor, encoder, and lock cables are the same.

Driver type*7

	Compatible drivers	Power supply voltage [V]
Nil	Without driver	_
M2	LECYM2-V□	200 to 230
U2	LECYU2-V□	200 to 230

I/O cable length [m]*11

	camic iciigai [iii]
Nil	Without cable
Н	Without cable (Connector only)
1	1.5

*11 When "Nil: Without driver" is selected for the driver type, only "Nil: Without cable" can be selected Refer to page 1135 if an I/O cable is required.

(Options are shown on page 1135.)

Applicable Stroke Table*4

Applicable office	ne iai									U . 3	iailuaiu
Stroke [mm] Model	200	300	400	500	600	700	800	900	1000	1200	1500
11-LEJS40	•	•	•	•	•	•	•	•	•	•	_
11-LEJS63		•	•	•	•	•	•	•	•	•	•

*4 Please contact SMC for non-standard strokes as they are produced as special orders.

For auto switches, refer to pages 332 to 335.

Compatible Drivers

Driver type

MECHATROLINK-II type

..... MECHATROLINK-Ⅲ type

. Standard



Series	LECYM	LECYU
Applicable network	MECHATROLINK-Ⅱ	MECHATROLINK-Ⅲ

Absolute Control encoder 20-bit encoder

Communication device USB communication, RS-422 communication Power supply voltage [V] 200 to 230 VAC (50/60 Hz)

Reference page

Specifications

AC Servo Motor (100/200 W)

		Model		11-LEJ	S40V6	11-LE	JS63V7				
	Stroke [mm	n]* ¹		200, 300, 400, 50 900, 100			00, 700, 800, 900 200, 1500				
	Mark land	[[cm]*2	Horizontal	30	55	45	85				
	work load	Work load [kg]*2 Vertical		5	10	10	20				
			Up to 500	1200	600	1200	600				
			501 to 600	1050	520	1200	600				
			601 to 700	780	390	1200	600				
			701 to 800	600	300	930	460				
	Speed*3	Stroke	801 to 900	480	240	740	370				
	[mm/s]	range	901 to 1000	390	190	600	300				
્ર	[11111/5]	lange	1001 to 1100	320	160	500	250				
<u>.</u>			1101 to 1200	270	130	420	210				
ca			1201 to 1300	_		360	180				
Ğ			1301 to 1400	_	_	310	150				
Actuator specifications			1401 to 1500	_	_	270	130				
<u> </u>	Max. accele	eration/decel	eration [mm/s ²]	20000 (Refer to pages 293 and 294 for limit according to work load and duty ratio.)							
ate	Positioning repeatability Basic type		±0.02								
ਰ	[mm] High-precision type			±0.01							
⋖	Lost motion [mm]*4 Basic type High-precision type		0.1 or less								
			0.05 or less								
	Lead [mm]			16	8	20	10				
	•	ration resista	nce [m/s²]*5	50/20							
	Actuation t	уре		Ball screw							
	Guide type			Linear guide							
	Grease		near guide portion	Low particle generation grease							
	Cleanliness			ISO Class 4 (ISO 14644-1)							
	.	emperature r		5 to 40							
		numidity rang	je [%RH]	90 or less (No condensation)							
	Regenerati			May be required depending on speed and work load (Refer to page 304.)							
<u>يق</u>		ut [W]/Size [n	nmj	100/□40 200/□60							
Electric specifications	Motor type			AC servo motor (200 VAC)							
E E	Encoder	7				Resolution: 1048576 p/rev)					
S	Power [W]*			Max. po			ower 725				
Lock unit specifications	Type*8	aa FNIT		101		etizing lock	204				
ig n	Holding for			101	202	162	324				
ğ	Power [W]			5.			6				
S	Rated volta	 		24 VDC ⁺¹⁰ %							

- st 1 Please contact SMC for non-standard strokes as they are produced as special orders.
- *2 For details, refer to the "Speed–Work Load Graph (Guide)" on page 304.
- *3 The allowable speed changes according to the stroke.
- *4 A reference value for correcting errors in reciprocal operation
- *5 Impact resistance: No malfunction occurred when the actuator was tested with a drop tester in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)

Vibration resistance: No malfunction occurred in a test ranging between 45 to 2000 Hz. The test was performed in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)

*6 The amount of particle generation changes according to the operating conditions and suction flow rate. Refer to the particle generation characteristics for details.

- *7 Indicates the max. power during operation (including the driver)
 When selecting the power supply capacity, refer to the power supply capacity in the operation manual of each driver.
- *8 Only when motor option "With lock" is selected
- Sensor magnet position is located in the table center.
 For detailed dimensions, refer to the "Auto Switch Mounting Position."
- * Do not allow collisions at either end of the table traveling distance. Additionally, when running the positioning operation, do not set within 2 mm of both ends.
- For the manufacture of intermediate strokes, please contact SMC.
 (11-LEJS40/Manufacturable stroke range: 200 to 1200 mm, 11-LEJS63/Manufacturable stroke range: 300 to 1500 mm)

Weight

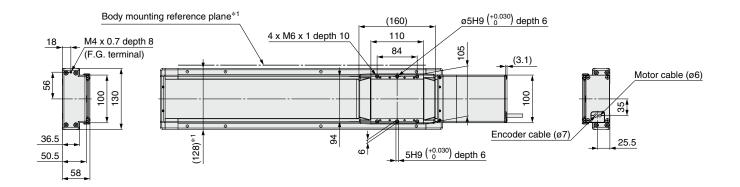
Model		11-LEJS40									
Stroke [mm]	200	300	400	500	600	700	800	900	1000	1200	
Product weight [kg]	5.6	6.4	7.1	7.9	8.7	9.4	10.2	11.0	11.7	13.3	
Additional weight with lock [kg]		0.3 (Absolute encoder)									

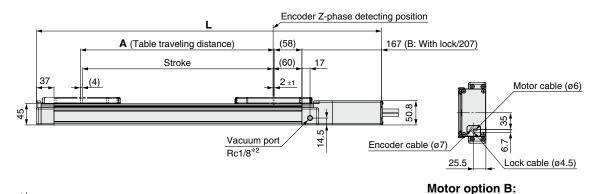
Model		11-LEJS63									
Stroke [mm]	300	400	500	600	700	800	900	1000	1200	1500	
Product weight [kg]	11.4	12.7	13.9	15.2	16.4	17.7	18.9	20.1	22.6	26.4	
Additional weight with lock [kg]		0.7 (Absolute encoder)									



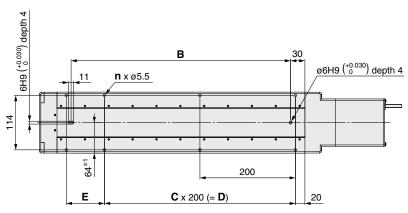


11-LEJS40





With lock



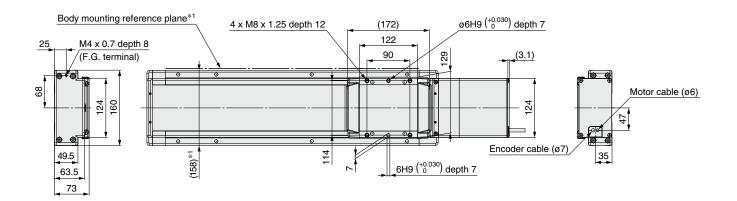
- *1 When mounting the actuator using the body mounting reference plane, use a pin. Set the height of the pin to be 5 mm or more because of round chamfering. (Recommended height: 6 mm)
- *2 This drawing shows the left type.
- * Please contact SMC for adjusting the Z-phase detecting position at the stroke end of the end side.
- * The amount of particle generation changes according to the operating conditions and suction flow rate.

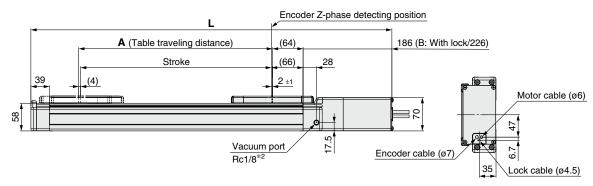
								[mm]
Model	L	-	Α	В	n	С	D	E
Model	Without lock	With lock	_ ^	6	"			_
11-LEJS□40□□-200□□-□□□□	523.5	563.5	206	260	6	1	200	80
11-LEJS□40□□□-300□□-□□□□	623.5	663.5	306	360	6	1	200	180
11-LEJS□40□□-400□□-□□□□	723.5	763.5	406	460	8	2	400	80
11-LEJS□40□□□-500□□-□□□□	823.5	863.5	506	560	8	2	400	180
11-LEJS□40□□□-600□□-□□□□	923.5	963.5	606	660	10	3	600	80
11-LEJS□40□□-700□□-□□□□	1023.5	1063.5	706	760	10	3	600	180
11-LEJS□40□□□-800□□-□□□□	1123.5	1163.5	806	860	12	4	800	80
11-LEJS□40□□-900□-□□□	1223.5	1263.5	906	960	12	4	800	180
11-LEJS□40□□□-1000□□-□□□□	1323.5	1363.5	1006	1060	14	5	1000	80
11-LEJS□40□□□-1200□□-□□□□	1523.5	1563.5	1206	1260	16	6	1200	80

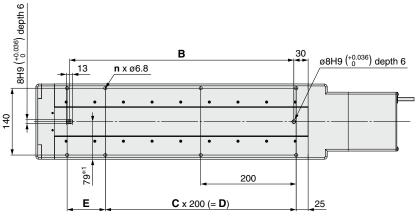
Motor option B: With lock

Dimensions: Ball Screw Drive

11-LEJS63







- *1 When mounting the actuator using the body mounting reference plane, use a pin. Set the height of the pin to be 5 mm or more because of round chamfering. (Recommended height: 6 mm)
- *2 This drawing shows the left type.
- * Please contact SMC for adjusting the Z-phase detecting position at the stroke end of the end side.
- * The amount of particle generation changes according to the operating conditions and suction flow rate.

								[mm]
Model	L	L		В		С		Е
Model	Without lock	With lock	A	В	n		D	_ =
11-LEJS□63□□-300□□-□□□□	656.5	696.5	306	370	6	1	200	180
11-LEJS□63□□-400□□-□□□□	756.5	796.5	406	470	8	2	400	80
11-LEJS□63□□-500□□-□□□□	856.5	896.5	506	570	8	2	400	180
11-LEJS□63□□-600□□-□□□□	956.5	996.5	606	670	10	3	600	80
11-LEJS□63□□-700□□-□□□□	1056.5	1096.5	706	770	10	3	600	180
11-LEJS□63□□-800□□-□□□□	1156.5	1196.5	806	870	12	4	800	80
11-LEJS□63□□-900□□-□□□□	1256.5	1296.5	906	970	12	4	800	180
11-LEJS□63□□-1000□□-□□□□	1356.5	1396.5	1006	1070	14	5	1000	80
11-LEJS□63□□-1200□□-□□□□	1556.5	1596.5	1206	1270	16	6	1200	80
11-LEJS:::63:::::::::::::::::::::::::::::::::	1856.5	1896.5	1506	1570	18	7	1400	180

