



Contact our sales office regarding a delivery date or a price since this is a special model.

SMC P.G.Information (Specialized Product)

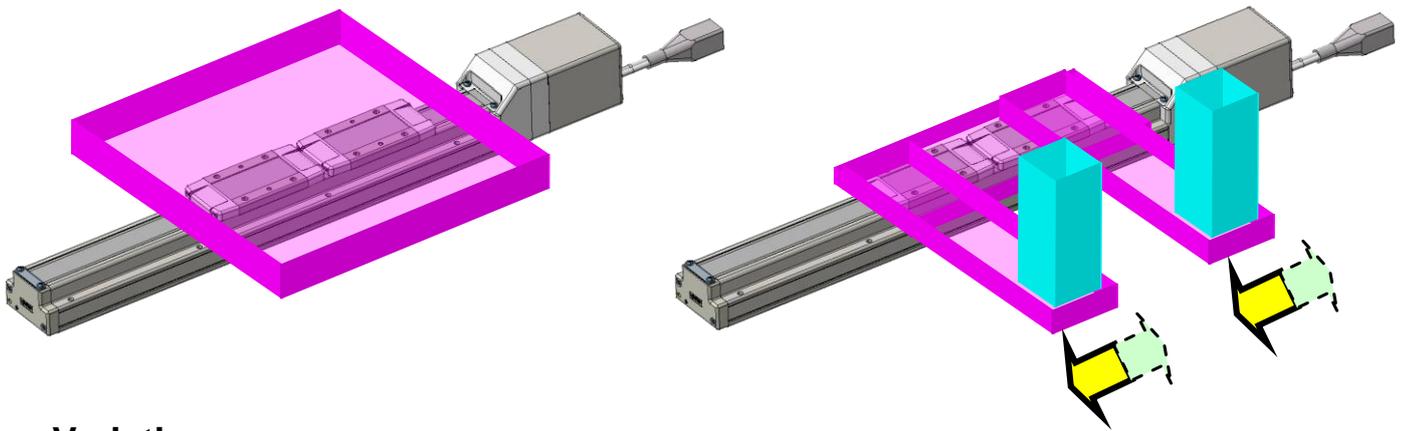
SP137X-031E
RP:SQ

Electric Actuator/Slider Type Double Table Specifications/LEF✕X61 Series

SMC Corporation
4-14-1, SOTO-KANDA,
CHIYODA-KU,
TOKYO 101-0021, JAPAN
URL: <http://www.smcworld.com>

■Features

- Stable transfer of large workpieces
- Improved allowable moment
- Suitable for simultaneous operation at 2 points
(Coupling the tables is required.)



Variations

Size	Motor type	LEFS (Ball Screw Drive)	LEFB (Belt Drive)	
			Motortop mounting type 	Motor bottom mounting type 
16	Step motor	●	●	-
	Ac servo motor	-	-	-
25	Step motor	●	●	-
	Ac servo motor	●	●	●
32	Step motor	●	●	-
	Ac servo motor	●	●	●
40	Step motor	●	-	-
	Ac servo motor	●	●	●

Specifications

Specifications other than moment are the same as the standard product.

However, since stroke variations are different from the standard variations, please refer to the attached drawing.

How to Order

- **Standard model number** **-X61**

Please refer to the attached drawing for details.

Dimensions

Please refer to the attached drawing.

Others

Since allowable moment varies depending on the table interval, please contact us for details.

It is possible to change the table interval.

 Caution To ensure the safest possible operation of this product, please be sure to thoroughly read the "Safety Instructions" in our "Best Pneumatics" catalog before use.

△ How to order
LEFB16T-**-*****-X61

Lead
T 48mm

Stroke
226 226mm
426 426mm
526 526mm
626 626mm
726 726mm
826 826mm
926 926mm

Controller/Driver option
Nil Screw mounting type
D * DIN rail mounting type
*DIN rail is not included order it separately.

● Controller/Driver type : 6*:1*:A*
I/O cable length (LECPA selected)
Available for the differential pulse input.
Only 15m cable is available for open collector input.

● Controller/Driver type : MJ
Communication plug connector
Nil None
S Straight type
T branch type

Controller/Driver type

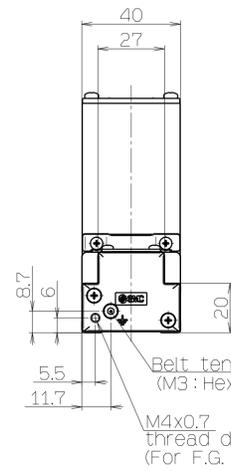
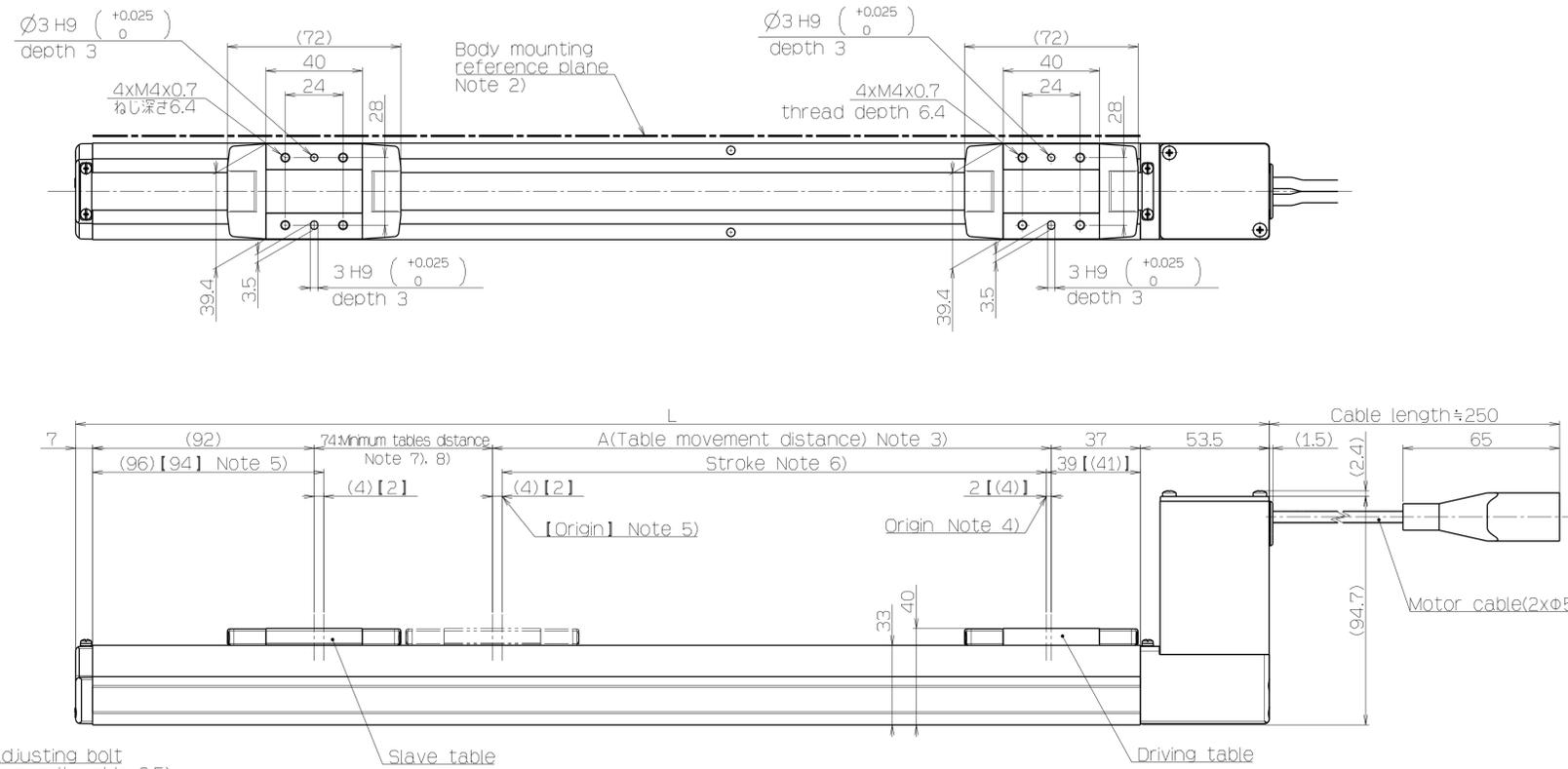
Nil	without controller/driver	
6N	LECP6	NPN
6P	(Step data input type)	PNP
1N	LECP1	NPN
1P	(Programless type)	PNP
MJ	LECPMJ (CC-Link Direct input type)	-
AN	LECPA	NPN
AP	(Pulse input type)	PNP

Actuator cable
Nil without cable
S Standard cable
R Robotic cables (Flexible cables)

Actuator cable length

Nil	without cable	B *	8m
1	1.5m	A *	10m
3	3m	B *	15m
5	5m	C *	20m

*Produced upon receipt of order.
(Only "Robotic type cable" can be selected.)
If the cable length exceeds 5m, the speed will be reduced 10% per 5m as the maximum.
(If cable length is 15m: 20% reduction as the maximum.)



Specification
1) Double table

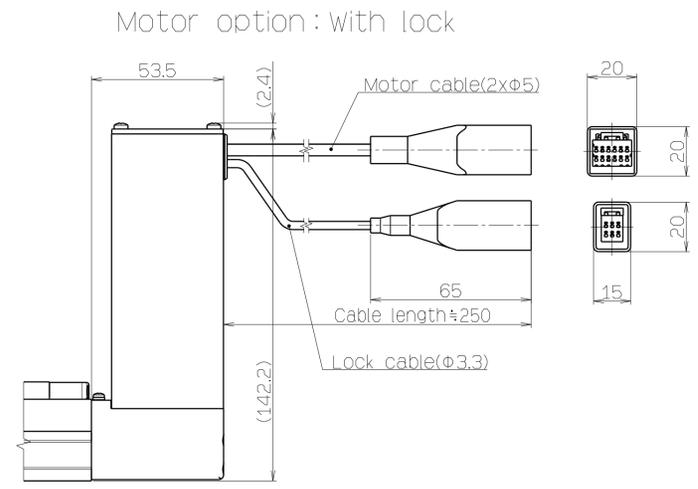
△ Table-1. Specifications

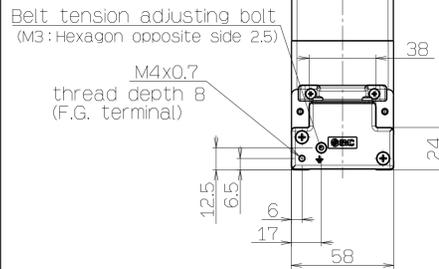
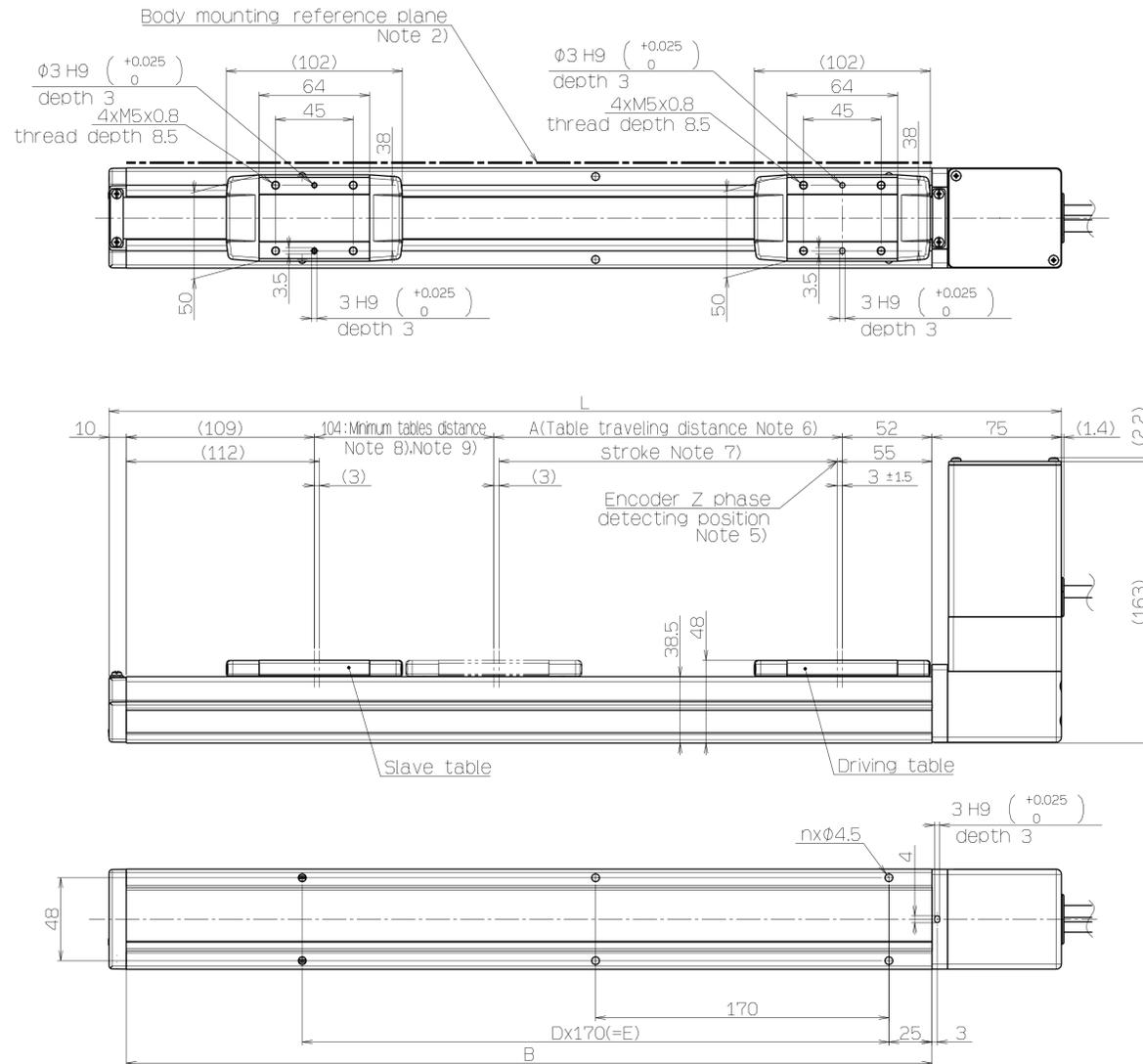
Actuator specification	Stroke (mm)	226, 426, 526, 626, 726, 826, 926							
	work load (kg) Horizontal	1							
	Speed (mm/s)	48 to 1100							
	Max. acceleration/deceleration (mm/s ²)	3000							
	Positioning repeatability (mm)	±0.1							
	Lead (mm)	48							
	Impact resistance/vibration resistance (m/s ²)	50 / 20							
	Drive method	Belt							
	Guide type	Linear guide							
	Operating temperature range (°C)	5 to 40							
Operating humidity range (%RH)	90 or less(No condensation)								
	Weight (kg)	Stroke	226	426	526	626	726	826	926
Additional weight for lock (kg)	1.29	1.55	1.68	1.81	1.94	2.07	2.20		
	0.12								
Electric specification	Motor size	□28							
	Motor	HB type 2-phase step motor (Unipolar connection)							
	Encoder (Angular displacement sensor)	Incremental A/B phase (800 pulse/rotation)							
	Power supply	24VDC +/-10%							
Lock specification	Power consumption (w)	24							
	Driving standby power consumption (w)	18							
	Moment max. power consumption (w)	51							
Type	No excitation operating type								
Retentivity (N)	4								
Power consumption (w)	3.6								
Rated voltage (V)	DC24±10%								

Table-2. Dimension

Model	L	A	B	n	D	E
LEFB16T-226*-*****-X61	495.5	232	435	6	2	300
LEFB16T-426*-*****-X61	695.5	432	635	10	4	600
LEFB16T-526*-*****-X61	795.5	532	735	10	4	600
LEFB16T-626*-*****-X61	895.5	632	835	12	5	750
LEFB16T-726*-*****-X61	995.5	732	935	14	6	900
LEFB16T-826*-*****-X61	1095.5	832	1035	14	6	900
LEFB16T-926*-*****-X61	1195.5	932	1135	16	7	1050

- Note
- 1) Refer to the catalog for details.
 - 2) When mounting the electric actuator using the body mounting reference plane, set the height of the opposite surface or pin to 2mm or more because of R chamfering. (Recommended height: 5mm)
 - 3) Distance within which the table can move when it returns to origin. Make sure a workpiece mounted on the table does not interfere with the workpieces and facilities around the table.
 - 4) Positions after return to origin.
 - 5) The number in brackets indicates when the direction of return to origin has changed.
 - 6) Stroke on the drawing is a moving stroke which the table distance is 74 mm. Increasing table distance would shorten the moving stroke.
 - 7) Table distance can be fixed. Impact to the tables is not allowed.
 - 8) Minimum table distance is when each tables are attached.
 - 9) When conformity to UL is required, the electric actuator and controller should be used with a UL 1310 Class 2 power supply.
 - 10) Unless otherwise noted along with a separate contract or agreement with in the Product Delivery Specifications, the safety instructions specified in the product catalog are applied. Please contact your local SMC Sales office for further details.





How to order

LEFB25*S-***-****-X61

Motor type: S (54)
 Lead: S (54)
 Stroke: 196, 196mm
 1896, 1896mm
 Motor option: Nil (without Lock), B (with Lock)

I/O connector	Nil	without connector
	H	with connector

Symbol	Length	Motor type
Nil	without cable	S2/S6/T6
2	2m	V6
3	3m	
5	5m	
A	10m	
C	20m	

Cable type	Nil	Without Cable
S	Standard cable	
R	Robotic type cables (Flexible type cables)	

Symbol	Applicable driver	Power supply voltage
Nil	Without driver	-
A1	LECSA1-SD	100 to 120V
A2	LECSA2-SD	200 to 230V
B1	LECSB1-SD	100 to 120V
B2	LECSB2-SD	200 to 230V
C1	LECS1-SD	100 to 120V
C2	LECS2-SD	200 to 230V
S1	LECSS1-SD	100 to 120V
S2	LECSS2-SD	200 to 230V
M2	LECYM2-VD	200 to 230V
U2	LECYU2-VD	200 to 230V

Symbol	Type	Output (Size)	Pulse input (A/D, B/D)	CC-Link (CC)	Compatible interface (Driver type symbol)		
S2	AC servo motor (Incremental encoder)	100W (□40)	LECSAD-S1	-	SSCNET (SD)	MECHATROLINK (M2, U2)	
S6			LECSB0-S5	LECSS0-S5	III	II	III
T6	AC servo motor (Absolute encoder)		-	-	LECSS2-T5	-	-
V6			-	-	-	LECYM2-V5	-
			-	-	-	-	LECYU2-V5

Table-3. Dimensions

Stroke	L	A	B	n	D	E
LEFB25*S-196*~****-X61	552	202	467	6	2	340
LEFB25*S-296*~****-X61	652	302	567	8	3	510
LEFB25*S-396*~****-X61	752	402	667	8	3	510
LEFB25*S-496*~****-X61	852	502	767	10	4	680
LEFB25*S-596*~****-X61	952	602	867	10	4	680
LEFB25*S-696*~****-X61	1052	702	967	12	5	850
LEFB25*S-796*~****-X61	1152	802	1067	14	6	1020
LEFB25*S-896*~****-X61	1252	902	1167	14	6	1020
LEFB25*S-996*~****-X61	1352	1002	1267	16	7	1190
LEFB25*S-1096*~****-X61	1452	1102	1367	16	7	1190
LEFB25*S-1196*~****-X61	1552	1202	1467	18	8	1360
LEFB25*S-1296*~****-X61	1652	1302	1567	20	9	1530
LEFB25*S-1396*~****-X61	1752	1402	1667	20	9	1530
LEFB25*S-1496*~****-X61	1852	1502	1767	22	10	1700
LEFB25*S-1596*~****-X61	1952	1602	1867	22	10	1700
LEFB25*S-1696*~****-X61	2052	1702	1967	24	11	1870
LEFB25*S-1796*~****-X61	2152	1802	2067	24	11	1870
LEFB25*S-1896*~****-X61	2252	1902	2167	26	12	2040

Table-4. Weight

Stroke(mm)	196	296	396	496	596	696	796	896	996	1096	Additional weight with lock(kg)
weight(kg)	3.22	3.47	3.72	3.97	4.22	4.47	4.72	4.97	5.22	5.47	0.3

Stroke(mm)	1196	1296	1396	1496	1596	1696	1796	1896	Additional weight with lock(kg)
weight(kg)	5.72	5.97	6.22	6.47	6.72	6.97	7.22	7.47	0.3

Table-2. Applicable stroke table

196	296	396	496	596	696	796	896	996	1096
●	●	●	●	●	●	●	●	●	●
1196	1296	1396	1496	1596	1696	1796	1896		
●	●	●	●	●	●	●	●		

Table-5. Cable

Motor type	Encoder cable	Motor cable	Lock Cable (Note)
S2/S6/T6	φ7	φ6 (Without lock), φ7 (With lock Note)	φ4.5
V6	φ7	φ7	-

Note) Motor option/with lock is selected.
 S2/S6/T6: Encoder·Motor·Lock/3 pcs.
 V6: Encoder·Motor(with lock)/2 pcs.

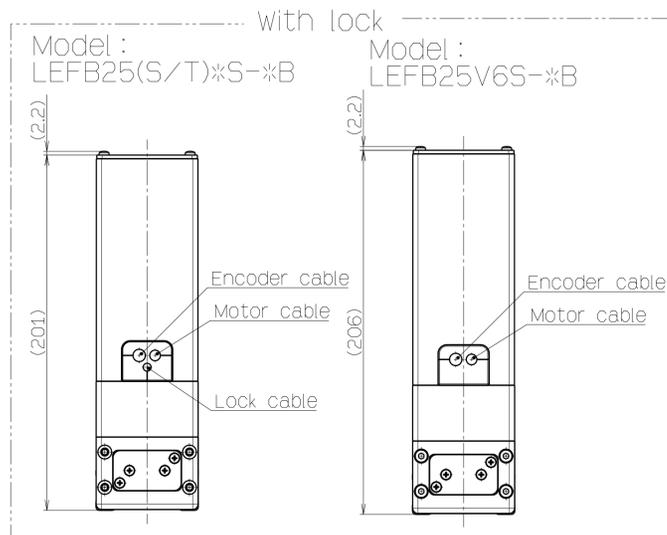
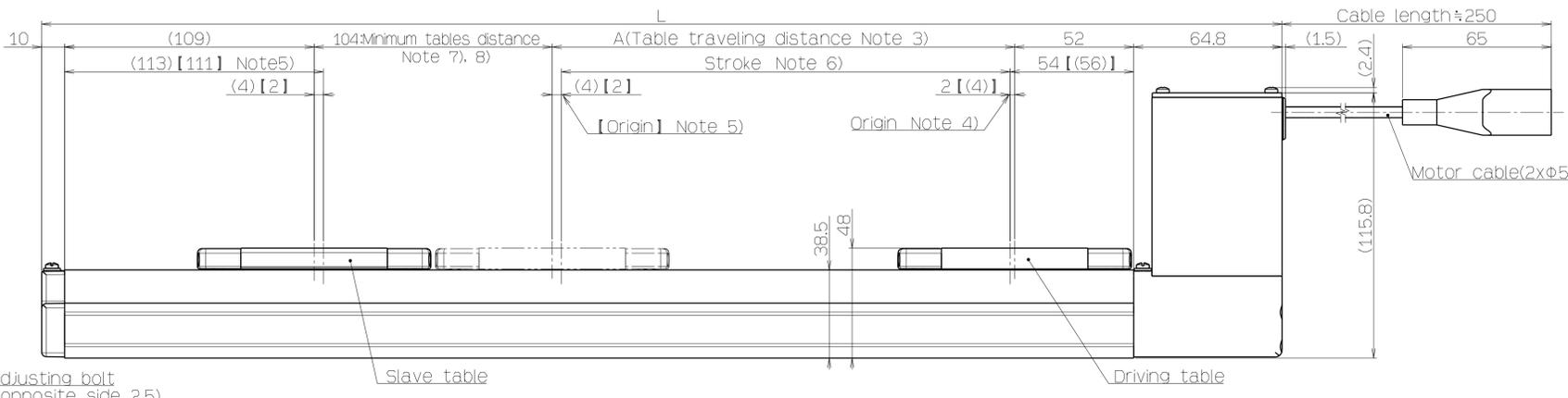
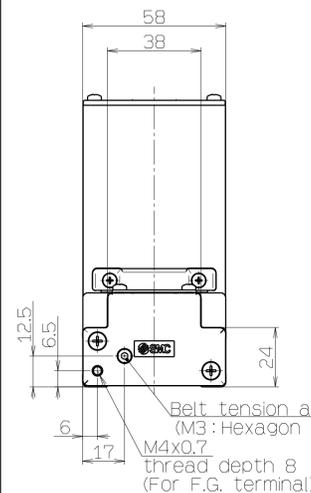
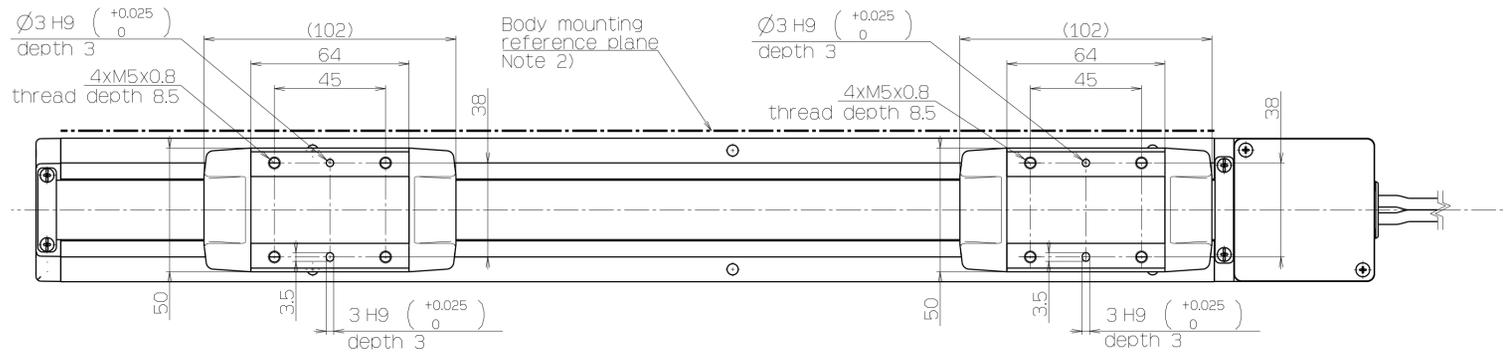


Table-1. Actuator specifications

Stroke [mm]	Refer to Table-2
Horizontal work load [kg]	5 Note 11)
Max. speed[mm/s]	2000
Max. acceleration/deceleration [mm/s ²]	20000 Note 11)
Positioning repeatability [mm]	±0.06
Lost motion [mm]	0.1 or less
Lead [mm]	54
Impact resistance/vibration resistance [m/s ²]	50 / 20
Drive method	Belt
Guide type	Linear guide
Operating temperature range [°C]	5 to 40
Operating humidity range [%RH]	90 or less (No condensation)
Regeneration option	Note 3)

REVISION	DESCRIPTION	DATE	PREPARED	REV. NO.	SCALE	FINISH	
					Free	-	
						PAINT	
						MASS	
						PACKING	
						MATERIAL	
						MODEL	
						THIRD ANGLE	
TOLERANCES JS B GADE	DRAWN	DATE	SCALE				
RANGE(mm)	R Murakami	2014-06-24	Free				
0.5-0.3	DESIGNED	T Nakazawa					
3-0.06	DATE	2014-06-24					
6-0.03	CHECKED						
30-0.12	DATE						
120-0.24	APPROVED						
400-0.5	DATE						
1000-0.8							

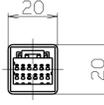
- Note
- Please refer the catalog for the detail.
 - When mounting the actuator by using "Body mounting reference plane", the height of attached surface or the height of pin should be 3mm or more. (5mm in recommended height)
 - Needed, depends on speed and acceleration. Check "Speed-work load Graph" on catalog.
 - Refer to "Specifications table" of the catalog for electric specifications (motor and lock).
 - The Z phase first detecting position from the stroke end of the motor side.
 - Don't hit the table to both stroke end. It will damage the actuator.
 - Stroke on the drawing is a moving stroke which the table distance is 104 mm. Increasing table distance would shorten the moving stroke.
 - Table distance can be fixed. Impact to the tables is not allowed.
 - Minimum table distance is when each tables are attached.
 - Unless otherwise noted along with a separate contract or agreement with in the Product Delivery Specifications, the safety instructions specified in the product catalog are applied. Please contact your local SMC Sales office for further details.
 - Acceleration is dependent on the work load. Check "Acceleration/Deceleration-work load Graph" on catalog.



How to order
LEFB25T-**-*****-X61

Lead	T	48mm
Stroke	196	196mm
	396	396mm
	496	496mm
	596	596mm
	696	696mm
	796	796mm
	896	896mm
	1096	1096mm
	1396	1396mm
	1696	1696mm
	1896	1896mm

Motor option	Nil	without lock
	B	with lock



Actuator cable	Nil	without cable
	S	Standard cable
	R	Robotic cables (Flexible cables)

Controller/Driver option	Nil	Screw mounting type
	D	DIN rail mounting type
*DIN rail is not included order it separately.		
Controller/Driver type	6*	1*A*
I/O cable length	Nil	Without cable
	1	1.5m
	3	3m
	5	5m

Controller/Driver type	Nil	None
	S	Straight type
	T	T branch type

Controller/Driver type	6N	LECP6	NPN
	6P	(Step data input type)	PNP
	1N	LECP1	NPN
	1P	(Programless type)	PNP
	MJ	LECPMJ	-
	AN	LECPA	NPN
	AP	(Pulse input type)	PNP

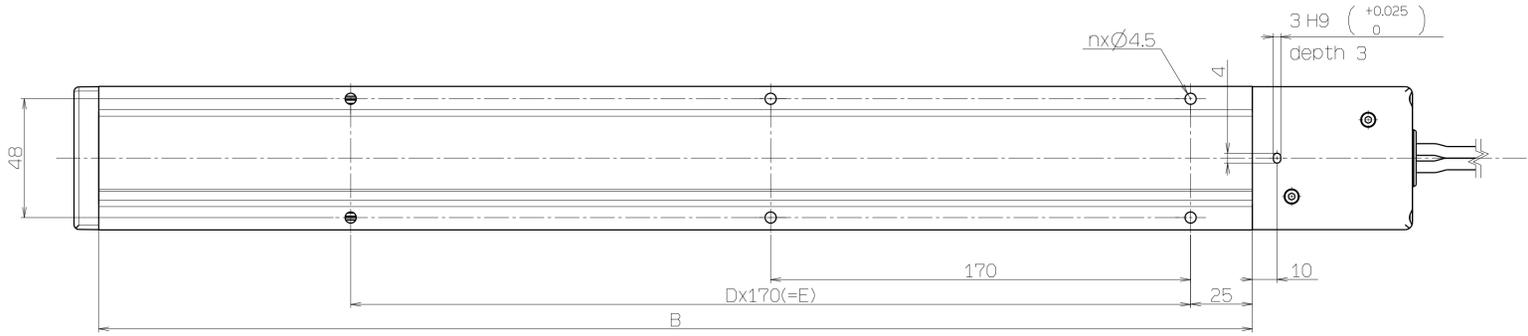
Actuator cable length	Nil	without cable	B *	8m
	1	1.5m	A *	10m
	3	3m	B *	15m
	5	5m	C *	20m

*Produced upon receipt of order.
(Only "Robotic type cable" can be selected.)
If the cable length exceeds 5m, the speed will be reduced 10% per 5m as the maximum.
(If cable length is 15m: 20% reduction as the maximum.)

Specification
1) Double table

Table-1. Specifications

Actuator specification	Stroke (mm)	196, 396, 496, 596, 696, 796, 896, 1096, 1396, 1696, 1896					
	Horizontal work load (kg)	5					
	Speed (mm/s)	48 to 1400					
	Max. acceleration/deceleration (mm/s ²)	3000					
	Positioning repeatability (mm)	±0.1					
	Lead (mm)	48					
	Impact resistance/vibration resistance (m/s ²)	50 / 20					
	Drive method	Belt					
	Guide type	Linear guide					
	Operating temperature range (°C)	5 to 40					
Operating humidity range (%RH)	90 or less (No condensation)						
weight	Stroke	196	396	496	596	696	796
	(kg)	2.54	3.00	3.23	3.46	3.69	3.92
Additional weight for lock (kg)	Stroke	896	1096	1396	1696	1896	-
	(kg)	4.15	4.61	5.30	5.99	6.45	-
Electric specification	Motor size	□42					
	Motor	HB type 2-phase step motor (Unipolar connection)					
	Encoder (Angular displacement sensor)	Incremental A/B phase (800 pulse/rotation)					
	Power supply	24VDC +/-10%					
	Power consumption (w)	32					
	Driving standby power consumption (w)	16					
	Moment max. power consumption (w)	60					
Lock specification	Type	No excitation operating type					
	Retentivity (N)	19					
	Power consumption (w)	5					
	Rated voltage (V)	24VDC +/-10%					



Motor option: With lock

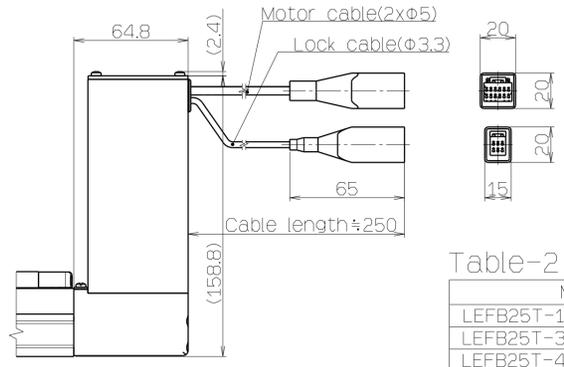


Table-2. Dimensions

Model	L	A	B	n	D	E
LEFB25T-196*-*****-X61	541.8	202	467	6	2	340
LEFB25T-396*-*****-X61	741.8	402	667	8	3	510
LEFB25T-496*-*****-X61	841.8	502	767	10	4	680
LEFB25T-596*-*****-X61	941.8	602	867	10	4	680
LEFB25T-696*-*****-X61	1041.8	702	967	12	5	850
LEFB25T-796*-*****-X61	1141.8	802	1067	14	6	1020
LEFB25T-896*-*****-X61	1241.8	902	1167	14	6	1020
LEFB25T-1096*-*****-X61	1441.8	1102	1367	16	7	1190
LEFB25T-1396*-*****-X61	1741.8	1402	1667	20	9	1530
LEFB25T-1696*-*****-X61	2041.8	1702	1967	24	11	1870
LEFB25T-1896*-*****-X61	2241.8	1902	2167	26	12	2040

Note
 1) Refer to the catalog for details.
 2) When mounting the electric actuator using the body mounting reference plane, set the height of the opposite surface or pin to 3mm or more because of R chamfering. (Recommended height: 5mm)
 3) Distance within which the table can move when it returns to origin. Make sure a workpiece mounted on the table does not interfere with the workpieces and facilities around the table.
 4) Positions after return to origin.
 5) The number in brackets indicates when the direction of return to origin has changed.
 6) Stroke on the drawing is a moving stroke which the table distance is 104 mm. Increasing table distance would shorten the moving stroke.
 7) Table distance can be fixed. Impact to the tables is not allowed.
 8) Minimum table distance is when each table is attached.
 9) When conformity to UL is required, the electric actuator and controller should be used with a UL 1310 Class 2 power supply.
 10) Unless otherwise noted along with a separate contract or agreement with in the Product Delivery Specifications, the safety instructions specified in the product catalog are applied.
 Please contact your local SMC Sales office for further details.

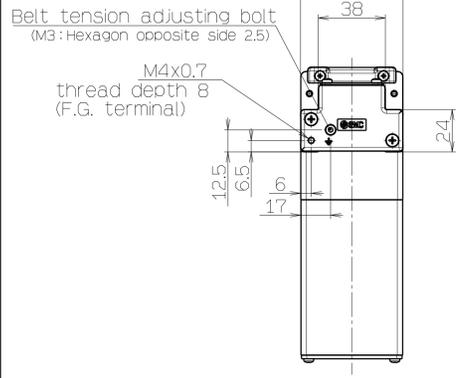
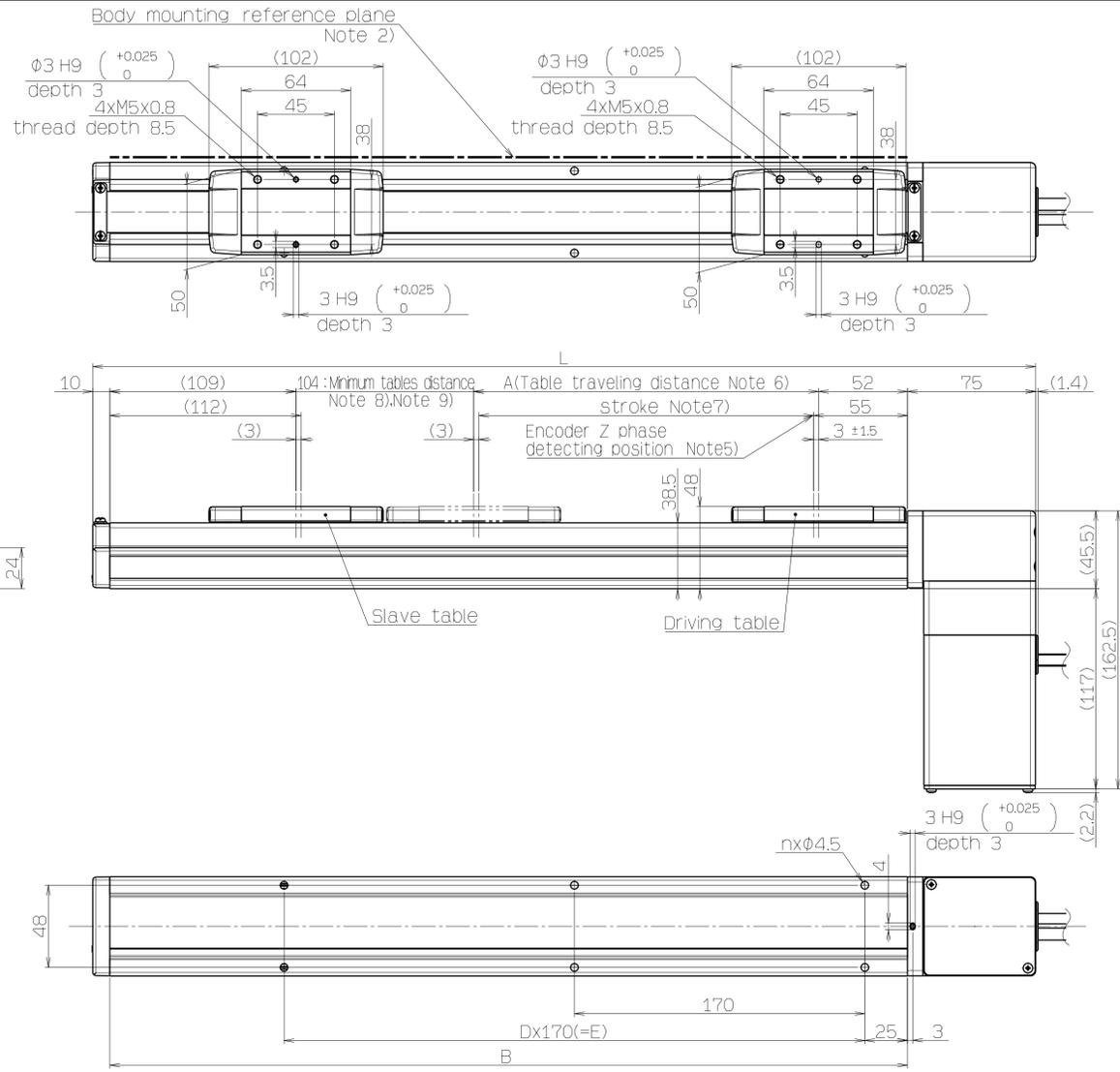


Table-3. Dimensions

Stroke	L	A	B	n	D	E
LFB25U*S-196*-***-X61	552	202	467	6	2	340
LFB25U*S-296*-***-X61	652	302	567	8	3	510
LFB25U*S-396*-***-X61	752	402	667	8	3	510
LFB25U*S-496*-***-X61	852	502	767	10	4	680
LFB25U*S-596*-***-X61	952	602	867	10	4	680
LFB25U*S-696*-***-X61	1052	702	967	12	5	850
LFB25U*S-796*-***-X61	1152	802	1067	14	6	1020
LFB25U*S-896*-***-X61	1252	902	1167	14	6	1020
LFB25U*S-996*-***-X61	1352	1002	1267	16	7	1190
LFB25U*S-1096*-***-X61	1452	1102	1367	16	7	1190
LFB25U*S-1196*-***-X61	1552	1202	1467	18	8	1360
LFB25U*S-1296*-***-X61	1652	1302	1567	20	9	1530
LFB25U*S-1396*-***-X61	1752	1402	1667	20	9	1530
LFB25U*S-1496*-***-X61	1852	1502	1767	22	10	1700
LFB25U*S-1596*-***-X61	1952	1602	1867	22	10	1700
LFB25U*S-1696*-***-X61	2052	1702	1967	24	11	1870
LFB25U*S-1796*-***-X61	2152	1802	2067	24	11	1870
LFB25U*S-1896*-***-X61	2252	1902	2167	26	12	2040

- Note
- Please refer the catalog for the detail.
 - When mounting the actuator by using "Body mounting reference plane", the height of attached surface or the height of pin should be 3mm or more. (5mm in recommended height)
 - Needed, depends on speed and acceleration. Check "Speed-work load Graph" on catalog.
 - Refer to "Specifications table" of the catalog for electric specifications (motor and lock).
 - The Z phase first detecting position from the stroke end of the motor side.
 - Don't hit the table to both stroke end. It will damage the actuator.
 - Stroke on the drawing is a moving stroke which the table distance is 104 mm. Increasing table distance would shorten the moving stroke.
 - Table distance can be fixed. Impact to the tables is not allowed.
 - Minimum table distance is when each tables are attached.
 - Unless otherwise noted along with a separate contract or agreement with in the Product Delivery Specifications, the safety instructions specified in the product catalog are applied. Please contact your local SMC Sales office for further details.
 - Acceleration is dependent on the work load. Check "Acceleration/Deceleration-work load Graph" on catalog.

Table-4. Weight

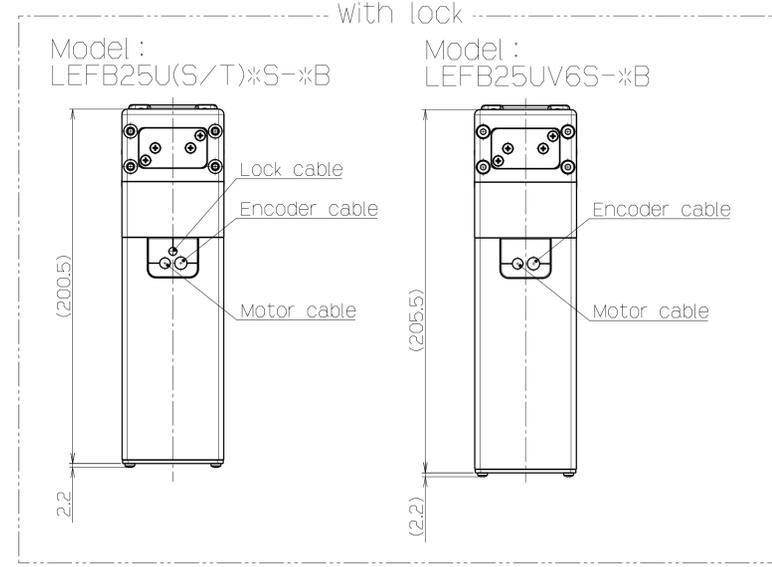
Stroke(mm)	196	296	396	496	596	696	796	896	996	1096	Additional weight with lock(kg)
weight(kg)	3.22	3.47	3.72	3.97	4.22	4.47	4.72	4.97	5.22	5.47	0.3

Stroke(mm)	1196	1296	1396	1496	1596	1696	1796	1896	Additional weight with lock(kg)
weight(kg)	5.72	5.97	6.22	6.47	6.72	6.97	7.22	7.47	0.3

Table-5. Cable

Motor type	Encoder cable	Motor cable		Lock cable Note)
		Without lock	With lock Note)	
S2/S6/T6	φ7	φ6	-	φ4.5
V6		φ7	φ7	-

Note) Motor option/with lock is selected.
S2/S6/T6: Encoder · Motor · Lock/3 pcs.
V6 : Encoder · Motor(with lock)/2 pcs.



How to order
LEFB25U*S-*-*-*X61

Motor mounting direction
U Bottom

Motor type
S 54mm

Stroke
196 196mm
? ?
1896 1896mm
*Refer to Table-2.

Motor option
Nil Without Lock
B With Lock

Cable type
Nil without Cable
S Standard cable
R Robotic type cables (Flexible type cables)

I/O connector
Nil without connector
H with connector

Driver type *1)

Symbol	Applicable driver	Power supply voltage
Nil	without driver	-
A1	LECSA1-SD	100 to 120V
A2	LECSA2-SD	200 to 230V
B1	LECSB1-SD	100 to 120V
B2	LECSB2-SD	200 to 230V
C1	LECS1-SD	100 to 120V
C2	LECS2-SD	200 to 230V
S1	LECS1-SD	100 to 120V
S2	LECS2-SD	200 to 230V
M2	LECYM2-VD	200 to 230V
U2	LECYU2-VD	200 to 230V

Cable length *1) *2)

Symbol	Length	Motor type S2/S6/T6	V6
Nil	without cable	●	●
2	2m	●	-
3	3m	-	●
5	5m	●	●
A	10m	●	●
C	20m	-	●

*Motor cable and Encoder cable are included to the actuator.
(When Motor option "with lock" is selected, Lock cable is included too.)

Motor type/Applicable driver

Symbol	Type	Output (Size)	Pulse input (AI, BI)	CC-Link (CI)	Compatible interface (Driver type symbol)			
					SSCNET (SD)	MECHATROLINK (M2, U2)	II	III
S2	AC servo motor (Incremental encoder)	100W (□40)	LECSAD-S1	-	-	-	-	-
S6	AC servo motor (Absolute encoder)	100W (□40)	LECSAD-S5	LECSAD-S5	LECSS2-T5	-	-	-
T6	AC servo motor (Absolute encoder)	100W (□40)	-	-	-	LECYM2-V5	-	-
V6	AC servo motor (Absolute encoder)	100W (□40)	-	-	-	-	-	LECYU2-V5

*1)When (with driver) is selected, cable is included. Select cable type and length surely.
Example)
S2S2: Standard cable (2m)+driver (LECSS2)
S2 : Standard cable (2m)
Nil : without cable and driver

Specification
1) Double table

Table-2. Applicable stroke table

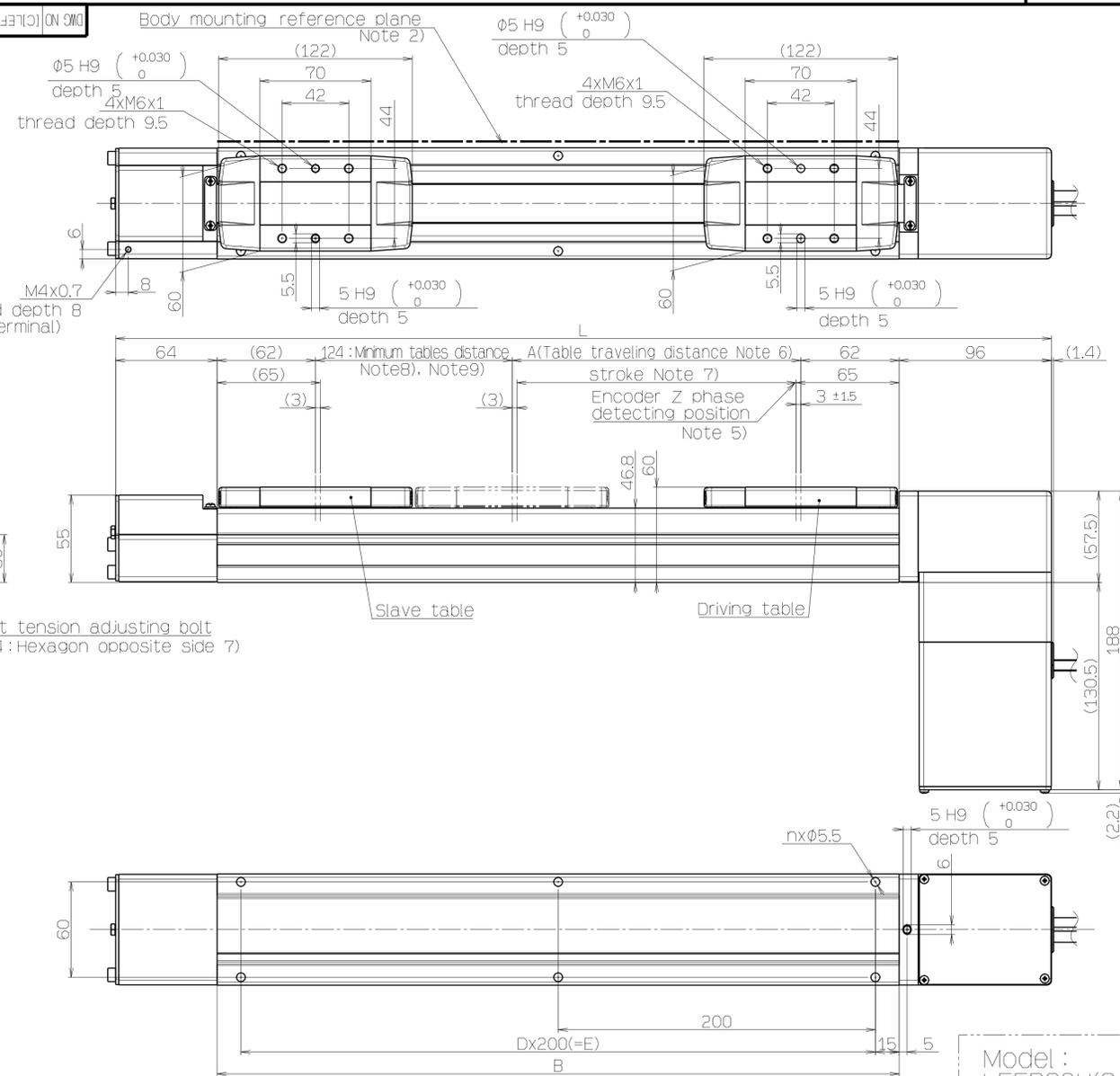
196	296	396	496	596	696	796	896	996	1096
●	●	●	●	●	●	●	●	●	●
1196	1296	1396	1496	1596	1696	1796	1896		
●	●	●	●	●	●	●	●		

Table-1. Actuator specifications

Stroke [mm]	Refer to Table-2
Horizontal work load [kg]	5 Note 11)
Max. speed[mm/s]	2000
Max. acceleration/deceleration [mm/s ²]	20000 Note 11)
Positioning repeatability [mm]	±0.06
Lost motion [mm]	0.1 or less
Lead [mm]	54
Impact resistance/vibration resistance [m/s ²]	50 / 20
Drive method	Belt
Guide type	Linear guide
Operating temperature range [°C]	5 to 40
Operating humidity range [%RH]	90 or less (No condensation)
Regeneration option	Note 3)

REV. NO.	DESCRIPTION	DATE	PREPARED	REV. NO.	SCALE	FINISH
1	INITIAL	2014-06-24	R Murakami	1	Free	-
2	DESIGNED	2014-06-24	T Nakazawa	2		-
3	CHECKED	2014-06-24		3		-
4	APPROVED			4		-

DWG NAME: Electric actuator/Slider type
DWG NO: [C]LEFB25U(S/T)*S-*-*-*X61
DWG ID: AG58448000 SMC Corporation



How to order

LEFB32U*S-**-****-X61

Motor mounting direction
U Bottom

Motor type
S 54mm

Stroke
176 176mm
2376 2376mm
*Refer to Table-2.

Motor option
Nil Without Lock
B With Lock

I/O connector
Nil without connector
H With connector

Driver type #1)

Symbol	Applicable driver	Power supply voltage
Nil	Without driver	-
A1	LECSA1-S0	100 to 120V
A2	LECSA2-S0	200 to 230V
B1	LECSB1-S0	100 to 120V
B2	LECSB2-S0	200 to 230V
C1	LECS1-S0	100 to 120V
C2	LECS2-S0	200 to 230V
S1	LECSS1-S0	100 to 120V
S2	LECSS2-S0	200 to 230V
M2	LECYM2-V0	200 to 230V
U2	LECYU2-V0	200 to 230V

Cable type

Symbol	without Cable	Standard cable	Robotic type cables (Flexible type cables)
Nil	Without Cable	Standard cable	Robotic type cables (Flexible type cables)
S	Without Cable	Standard cable	Robotic type cables (Flexible type cables)
R	Without Cable	Standard cable	Robotic type cables (Flexible type cables)

*Motor cable and Encoder cable are included to the actuator.
(When Motor option "with lock" is selected, Lock cable is included too.)

Cable length #1) #2)

Symbol	Length	Motor type S2/S6/T6	Motor type V6
Nil	without cable	●	●
2	2m	●	-
3	3m	-	●
5	5m	●	●
A	10m	●	●
C	20m	-	●

#2) The length of motor, encoder and lock cable are same.

Motor type/Applicable driver

Symbol	Type	Output (Size)	Pulse input (AD, BD)	CC-Link (CD)	Compatible interface (Driver type symbol)			
					SSCNET (SD)	MECHATROLINK (M2, U2)	II	III
S3	AC servo motor (Incremental encoder)	200W (D60)	LECSA0-S3	-	-	-	-	-
S7	AC servo motor (Incremental encoder)	200W (D60)	LECSB0-S7	LECS0-S7	LECSS0-S7	-	-	-
T7	AC servo motor (Absolute encoder)	200W (D60)	-	-	-	LECSS2-T7	-	-
V7	AC servo motor (Absolute encoder)	200W (D60)	-	-	-	-	LECYM2-V7	LECYU2-V7

*1)When (with driver) is selected, cable is included. Select cable type and length surely.
Example)
S2S2: Standard cable (2m)+driver (LECSS2)
S2 : Standard cable (2m)
Nil : Without cable and driver

Table-4. Weight

Stroke[mm]	176	276	376	476	576	676	776	876	976	1076	Additional weight with lock[kg]
weight[kg]	5.22	5.57	5.92	6.27	6.62	6.97	7.32	7.67	8.02	8.37	0.7

Stroke[mm]	1176	1276	1376	1476	1576	1676	1776	1876	2376	Additional weight with lock[kg]
weight[kg]	8.72	9.07	9.42	9.77	10.12	10.47	10.82	11.17	12.92	0.7

Table-3. Dimensions

Stroke	L	A	B	n	D	E
LEFB32U*S-176*-*-X61	590	182	430	6	2	400
LEFB32U*S-276*-*-X61	690	282	530	6	2	400
LEFB32U*S-376*-*-X61	790	382	630	8	3	600
LEFB32U*S-476*-*-X61	890	482	730	8	3	600
LEFB32U*S-576*-*-X61	990	582	830	10	4	800
LEFB32U*S-676*-*-X61	1090	682	930	10	4	800
LEFB32U*S-776*-*-X61	1190	782	1030	12	5	1000
LEFB32U*S-876*-*-X61	1290	882	1130	12	5	1000
LEFB32U*S-976*-*-X61	1390	982	1230	14	6	1200
LEFB32U*S-1076*-*-X61	1490	1082	1330	14	6	1200
LEFB32U*S-1176*-*-X61	1590	1182	1430	16	7	1400
LEFB32U*S-1276*-*-X61	1690	1282	1530	16	7	1400
LEFB32U*S-1376*-*-X61	1790	1382	1630	18	8	1600
LEFB32U*S-1476*-*-X61	1890	1482	1730	18	8	1600
LEFB32U*S-1576*-*-X61	1990	1582	1830	20	9	1800
LEFB32U*S-1676*-*-X61	2090	1682	1930	20	9	1800
LEFB32U*S-1776*-*-X61	2190	1782	2030	22	10	2000
LEFB32U*S-1876*-*-X61	2290	1882	2130	22	10	2000
LEFB32U*S-2376*-*-X61	2790	2382	2630	28	13	2600

Note

- Please refer the catalog for the detail.
- When mounting the actuator by using "Body mounting reference plane", the height of attached surface or the height of pin should be 3mm or more. (5mm in recommended height)
- Needed, depends on speed and acceleration. Check "Speed-work load Graph" on catalog.
- Refer to "Specifications table" of the catalog for electric specifications (motor and lock).
- The Z phase first detecting position from the stroke end of the motor side.
- Don't hit the table to both stroke end. It will damage the actuator.
- Stroke on the drawing is a moving stroke which the table distance is 124 mm. Increasing table distance would shorten the moving stroke.
- Table distance can be fixed. Impact to the tables is not allowed.
- Minimum table distance is when each tables are attached.
- Unless otherwise noted along with a separate contract or agreement with in the Product Delivery Specifications, the safety instructions specified in the product catalog are applied.
- Please contact your local SMC Sales office for further details.
- Acceleration is dependent on the work load. Check "Acceleration/Deceleration-work load Graph" on catalog.

Specification

1) Double table

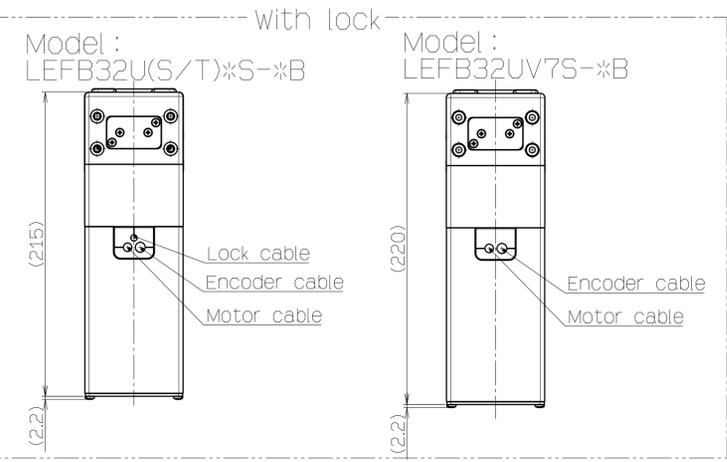


Table-5. Cable

Motor type	Encoder cable	Motor cable without lock	Motor cable with lock Note)	Lock cable Note)
S3/S7/T7	φ7	φ6	-	φ4.5
V7	φ7	φ7	φ7	-

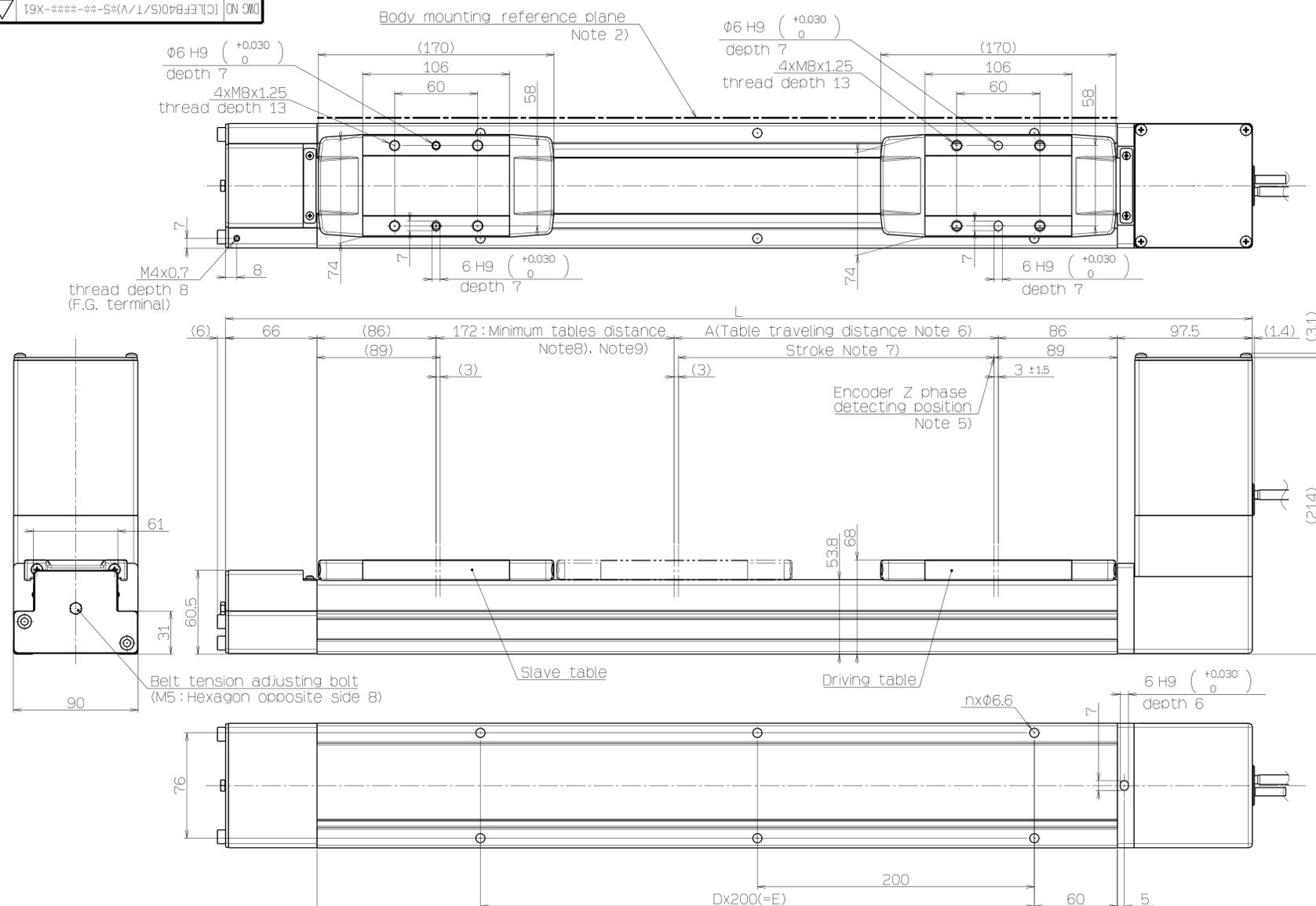
Note) Motor option/with lock is selected.
S3/S7/T7: Encoder·Motor·Lock/3 pcs.
V7 : Encoder·Motor(with lock)/2 pcs.

Table-1. Actuator specifications

Stroke [mm]	Refer to Table-2
Horizontal work load [kg]	15 Note 11)
Max. speed[mm/s]	2000
Max. acceleration/deceleration [mm/s ²]	20000 Note 11)
Positioning repeatability [mm]	±0.06
Lost motion [mm]	0.1 or less
Lead [mm]	54
Impact resistance/vibration resistance [m/s ²]	50 / 20
Drive method	Belt
Guide type	Linear guide
Operating temperature range [°C]	5 to 40
Operating humidity range [%RH]	90 or less (No condensation)
Regeneration option	Note 3)

Table-2. Applicable stroke table

176	276	376	476	576	676	776	876	976	1076
●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●



Specification
1) Double table

How to order
LEFB40*S-**-****-X61

Motor type

Lead	S 54
Stroke	128 128mm 2828 2828mm
Motor option	Nil without Lock B with Lock

I/O connector

Nil	without connector
H	with connector

Driver type #1

Symbol	Applicable driver	Power supply voltage
Nil	without driver	-
A2	LECSA2-SD	200~230V
B2	LECSB2-SD	200~230V
C2	LECS2-SD	200~230V
S2	LECS2-TD	200~240V
M2	LECYM2-V0	200~230V
U2	LECYU2-V0	200~230V

Cable type

Nil	without Cable
S	Standard cable
R	Robotic type cables (Flexible type cables)

Cable length #1) #2)

Symbol	Length	Motor type S2/S6 / T6	Motor type V6
Nil	without cable	●	●
2	2m	●	-
3	3m	-	●
5	5m	●	●
A	10m	●	●
c	20m	-	●

*Motor cable and Encoder cable are included to the actuator. (When Motor option "with lock" is selected. Lock cable is included too.)

*2) The length of motor, encoder and lock cable are same.

Motor type/Applicable driver

Symbol	Type	Output (Size)	Pulse input (AD, BD)	CC-Link (CC)	Compatible interface (Driver type symbol)			
					SSCNET (SD)	MECHATROLINK (M2, U2)	MECHATROLINK (M2, U2)	
S4	AC servo motor (Incremental encoder)	400W (I60)	LECSA0-S4	-	LECS00-S8	LECS00-S8	-	-
S8	AC servo motor (Absolute encoder)	400W (I60)	LECSB0-S8	LECS00-S8	LECS00-S8	-	-	
T8			-	-	LECS2-T8	-	-	
V8			-	-	-	LECYM2-V8	-	-

*1) When (with driver) is selected, cable is included. Select cable type and length surely.
Example:
S2S2: Standard cable (2m)+driver (LECS2)
S2 : Standard cable (2m)
Nil : without cable and driver

Table-4. Weight

Stroke[mm]	128	228	328	428	528	628	728	828	928	1028	Additional weight with lock[kg]
weight[kg]	7.86	8.31	8.76	9.21	9.66	10.11	10.56	11.01	11.46	11.91	0.70

Stroke[mm]	1128	1228	1328	1428	1528	1628	1728	1828	2328	2828	Additional weight with lock[kg]
weight[kg]	12.36	12.81	13.26	13.71	14.16	14.61	15.06	15.51	17.76	20.01	0.70

Table-3. Dimensions

Stroke	L	A	B	n	D	E
LEFB40*S-128*-****-X61	641.5	134	478	6	2	400
LEFB40*S-228*-****-X61	741.5	234	578	6	2	400
LEFB40*S-328*-****-X61	841.5	334	678	8	3	600
LEFB40*S-428*-****-X61	941.5	434	778	8	3	600
LEFB40*S-528*-****-X61	1041.5	534	878	10	4	800
LEFB40*S-628*-****-X61	1141.5	634	978	10	4	800
LEFB40*S-728*-****-X61	1241.5	734	1078	12	5	1000
LEFB40*S-828*-****-X61	1341.5	834	1178	12	5	1000
LEFB40*S-928*-****-X61	1441.5	934	1278	14	6	1200
LEFB40*S-1028*-****-X61	1541.5	1034	1378	14	6	1200
LEFB40*S-1128*-****-X61	1641.5	1134	1478	16	7	1400
LEFB40*S-1228*-****-X61	1741.5	1234	1578	16	7	1400
LEFB40*S-1328*-****-X61	1841.5	1334	1678	18	8	1600
LEFB40*S-1428*-****-X61	1941.5	1434	1778	18	8	1600
LEFB40*S-1528*-****-X61	2041.5	1534	1878	20	9	1800
LEFB40*S-1628*-****-X61	2141.5	1634	1978	20	9	1800
LEFB40*S-1728*-****-X61	2241.5	1734	2078	22	10	2000
LEFB40*S-1828*-****-X61	2341.5	1834	2178	22	10	2000
LEFB40*S-2328*-****-X61	2841.5	2334	2678	28	13	2600
LEFB40*S-2828*-****-X61	3341.5	2834	3178	32	15	3000

Table-2. Applicable stroke table

128	228	328	428	528	628	728	828	928	1028
●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●

Note

- Please refer the catalog for the detail.
- When mounting the actuator by using "Body mounting reference plane", the height of attached surface or the height of pin should be 3mm or more. (5mm in recommended height)
- Needed, depends on speed and acceleration. Check "Speed-work load Graph" on catalog.
- Refer to "Specifications table" of the catalog for electric specifications (motor and lock).
- The Z phase first detecting position from the stroke end of the motor side.
- Don't hit the table to both stroke end. It will damage the actuator.
- Stroke on the drawing is a moving stroke which the table distance is 172 mm. Increasing table distance would shorten the moving stroke.
- Table distance can be fixed. Impact to the tables is not allowed.
- Minimum table distance is when each tables are attached.
- Unless otherwise noted along with a separate contract or agreement with in the Product Delivery Specifications, the safety instructions specified in the product catalog are applied. Please contact your local SMC Sales office for further details.
- Acceleration is dependent on the work load. Check "Acceleration/Deceleration-work load Graph" on catalog.

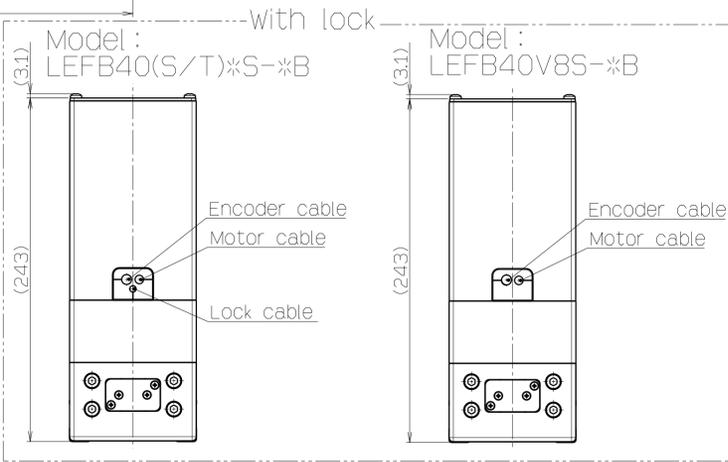


Table-1. Actuator specifications

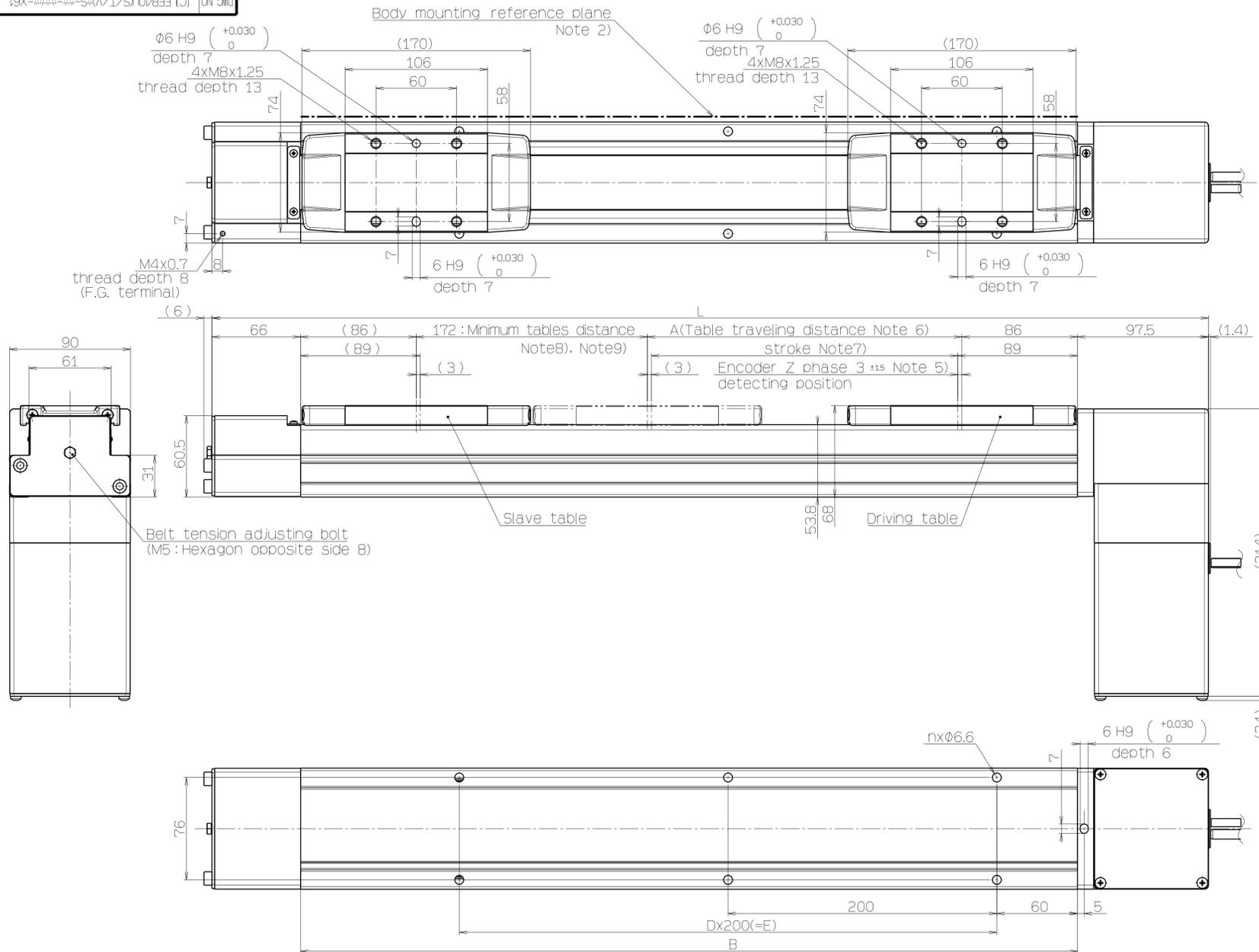
Stroke [mm]	Refer to Table-2
Horizontal work load [kg]	25 Note 11)
Max. speed [mm/s]	2000
Max. acceleration/deceleration [mm/s ²]	20000 Note 11)
Positioning repeatability [mm]	±0.06
Lost motion [mm]	0.1 or less
Lead [mm]	54
Impact resistance/vibration resistance [m/s ²]	50 / 20
Drive method	Belt
Guide type	Linear guide
Operating temperature range [°C]	5 to 40
Operating humidity range [%RH]	90 or less (No condensation)
Regeneration option	Note 3)

Table-5. Cable

Motor type	Encoder cable	Motor cable without lock	Motor cable with lock (Note)	Lock cable (Note)
S4/S8/T8	φ7	φ6	-	φ4.5
V8	φ7	φ7	φ7	-

Note) Motor option/with lock is selected.
S4/S8/T8: Encoder·Motor·Lock/3 pcs.
V8 : Encoder·Motor(with lock)/2 pcs.





How to order

LEFB40U*S-**-***-X536

Motor mounting direction:
 U Top
 Bottom

Motor type:
 Lead: S 54mm

Stroke:

128	128mm
?	?
2828	2828mm

 *Refer to Table-2.

Motor option:
 Nil Without Lock
 B With Lock

Cable type:
 Nil without Cable
 S Standard cable
 R Robotic type cables (Flexible type cables)

*Motor cable and Encoder cable are included to the actuator. (when Motor option "with lock" is selected. Lock cable is included too.)

I/O connector:
 Nil without connector
 H With connector

Driver type #1:

Symbol	Applicable driver	Power supply voltage
Nil	without driver	-
A2	LECSA2-S□	200~230V
B2	LECSB2-S□	200~230V
C2	LECS2-S□	200~230V
S2	LECSS2-S□	200~230V
M2	LECYM2-V□	200~230V
U2	LECYU2-V□	200~230V

Cable length #1) #2):

Symbol	Length	Motor type S2/S6/T6	Motor type V6
Nil	without cable	●	●
2	2m	●	-
3	3m	-	●
5	5m	●	●
A	10m	●	●
C	20m	-	●

 #2) The length of motor, encoder and lock cable are same.

Motor type/Applicable driver

Symbol	Type	Output (Size)	Pulse input (AD, BD)	CC-Link (CD)	Compatible interface (Driver type symbol)			
					SSCNET (SD)		MECHATROLINK (M2, U2)	
					III	III/H	II	III
S4	AC servo motor (Incremental encoder)	400W (□60)	LECSAD-S4	-	-	-	-	-
S8			LECS8D-S8	LECS8D-S8	LECSSD-S8	-	-	-
TB	AC servo motor (Absolute encoder)		-	-	LECSS2-TB	-	-	-
VB			-	-	-	-	LECYM2-V8	-
								LECYU2-V8

*1)When (with driver) is selected, cable is included. Select cable type and length surely.
 Example)
 S2S2 : Standard cable (2m)+driver (LECSS2)
 S2 : Standard cable (2m)
 Nil : without cable and driver

Table-3. Weight

Stroke[mm]	128	228	328	428	528	628	728	828	928	1028	Additional weight with lock[kg]
weight[kg]	7.80	8.25	8.70	9.15	9.60	10.05	10.50	10.95	11.40	11.85	0.70
Stroke[mm]	1128	1228	1328	1428	1528	1628	1728	1828	2328	2828	Additional weight with lock[kg]
weight[kg]	12.30	12.75	13.20	13.65	14.10	14.55	15.00	15.45	17.70	19.95	0.70

Table-1. Actuator specifications

Stroke [mm]	128, 228, 328, 428, 528, 628, 728, 828, 928, 1028, 1128, 1228, 1328, 1428, 1528, 1628, 1728, 1828, 2328, 2828
Horizontal work load [kg]	25 Note 11)
Max. speed[mm/s]	2000
Max. acceleration/deceleration [mm/s ²]	20000 Note 11)
Positioning repeatability [mm]	±0.08
Lost motion [mm]	0.1 or less
Lead [mm]	54
Impact resistance/vibration resistance [m/s ²]	50 / 20
Drive method	Belt
Guide type	Linear guide
Operating temperature range [°C]	5 to 40
Operating humidity range [%RH]	90 or less (No condensation)
Regeneration option	Note 3)

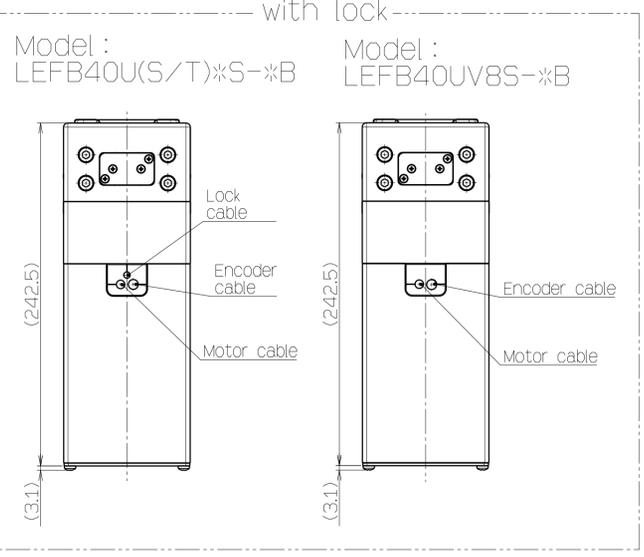


Table-2. Dimensions

Stroke	L	A	B	n	D	E
128	641.5	134	478	6	2	400
228	741.5	234	578	6	2	400
328	841.5	334	678	8	3	600
428	941.5	434	778	8	3	600
528	1041.5	534	878	10	4	800
628	1141.5	634	978	10	4	800
728	1241.5	734	1078	12	5	1000
828	1341.5	834	1178	12	5	1000
928	1441.5	934	1278	14	6	1200
1028	1541.5	1034	1378	14	6	1200
1128	1641.5	1134	1478	16	7	1400
1228	1741.5	1234	1578	16	7	1400
1328	1841.5	1334	1678	18	8	1600
1428	1941.5	1434	1778	18	8	1600
1528	2041.5	1534	1878	20	9	1800
1628	2141.5	1634	1978	20	9	1800
1728	2241.5	1734	2078	22	10	2000
1828	2341.5	1834	2178	22	10	2000
2328	2841.5	2334	2678	28	13	2600
2828	3341.5	2834	3178	32	15	3000

Table-4. Cable

Motor type	Encoder cable	Motor cable		Lock cable (Note)
		Without lock	With lock (Note)	
S4/S8/T8	φ7	φ6	-	φ4.5
V8	φ7	φ7	-	-

Note) Motor option/with lock is selected.
 S4/S8/T8 : Encoder · Motor · Lock/3 pcs.
 V8 : Encoder · Motor(with lock)/2 pcs.

Specification

- 1)Double table
- Note
- Please refer the catalog for the detail.
 - When mounting the actuator by using "Body mounting reference plane", the height of attached surface or the height of pin should be 3mm or more. (5mm in recommended height)
 - Needed, depends on speed and acceleration. Check "Speed-work load Graph" on catalog.
 - Refer to "Specifications table" of the catalog for electric specifications (motor and lock).
 - The Z phase first detecting position from the stroke end of the motor side.
 - Don't hit the table to both stroke end. It will damage the actuator.
 - Stroke on the drawing is a moving stroke which the table distance is 172 mm. Increasing table distance would shorten the moving stroke.
 - Table distance can be fixed. Impact to the tables is not allowed.
 - Minimum table distance is when each tables are attached.
 - Unless otherwise noted along with a separate contract or agreement with in the Product Delivery Specifications, the safety instructions specified in the product catalog are applied.
 - Please contact your local SMC Sales office for further details.
 - Acceleration is dependent on the work load.
 - Check "Acceleration/Deceleration-work load Graph" on catalog.

How to order
LEFS16**-*[X]61

Lead	
A	10mm
B	5mm
Stroke	
76	76mm
126	126mm
176	176mm
226	226mm
276	276mm
326	326mm
376	376mm
426	426mm

Controller/Driver option	
Nil	Screw mounting type
D	DIN rail mounting type

*DIN rail is not included order it separately.

●Controller/Driver type : 6*1*A* I/O cable length

Nil	without cable
1	1.5m
3	3m
5	5m

(LECPA selected)
Available for the differential pulse input.
Only 1.5m cable is available for open collector input.

●Controller/Driver type : MJ Communication plug connector

Nil	None
S	Straight type
T	T branch type

Controller/Driver type

Nil	without controller/driver	
6N	LECP6 (Step data input type)	NPN
6P		PNP
1N	LECP1 (Programless type)	NPN
1P		PNP
MJ	LECPMJ (CC-Link Direct input type)	-
AN	LECPA (Pulse input type)	NPN
AP		PNP

Actuator cable length

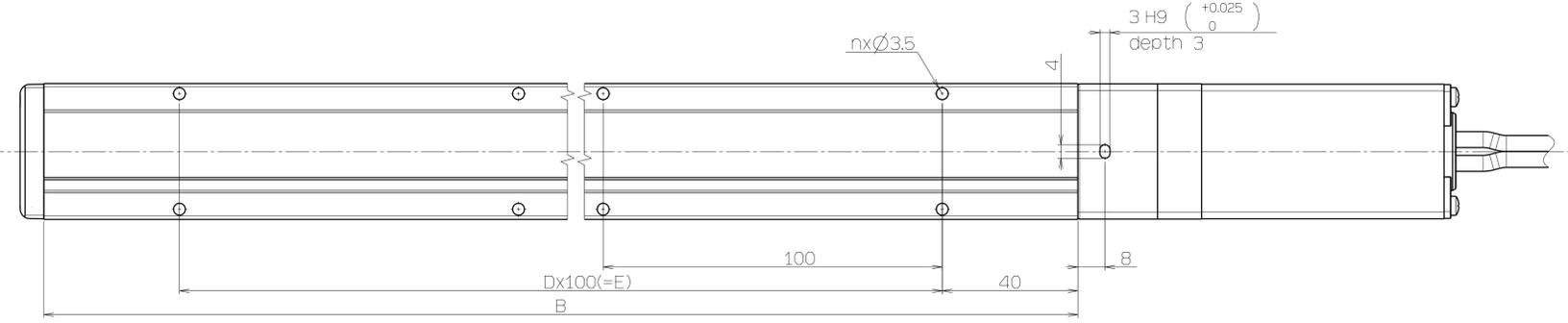
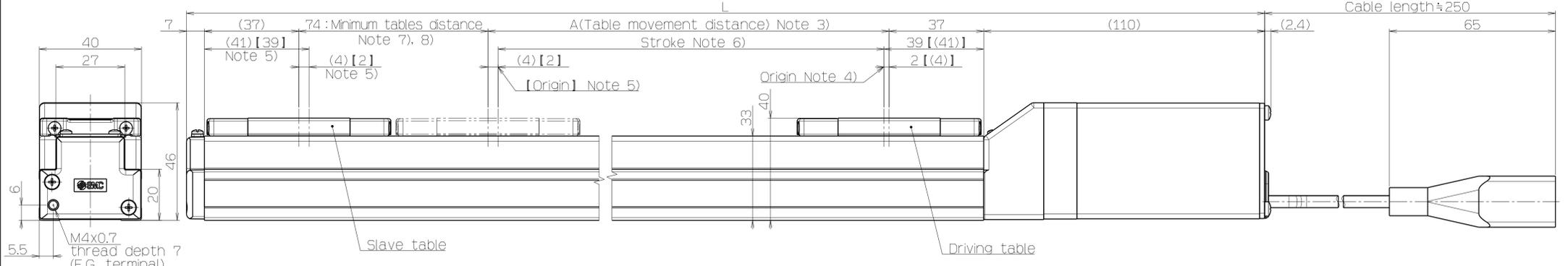
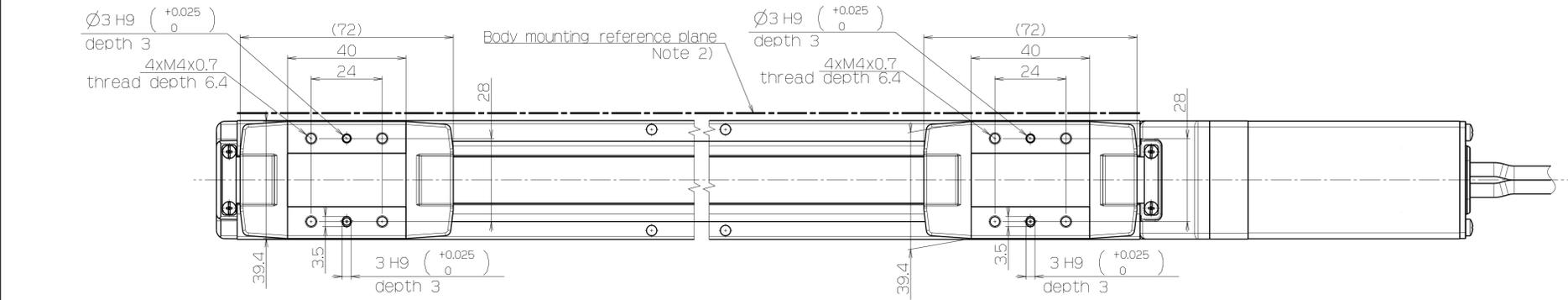
Nil	without cable	8	8m*
1	1.5m	A	10m*
3	3m	B	15m*
5	5m	C	20m*

*Produced upon receipt of order.
(Only "Robotic type cable" can be selected.)
If the cable length exceeds 5m, the speed will be reduced 10% per 5m as the maximum.
(If cable length is 15m: 20% reduction as the maximum.)

Actuator cable

Nil	without cable
S	Standard cable
R	Robotic type cables (Flexible type cables)

Specification
1) Double table



Motor option: with lock

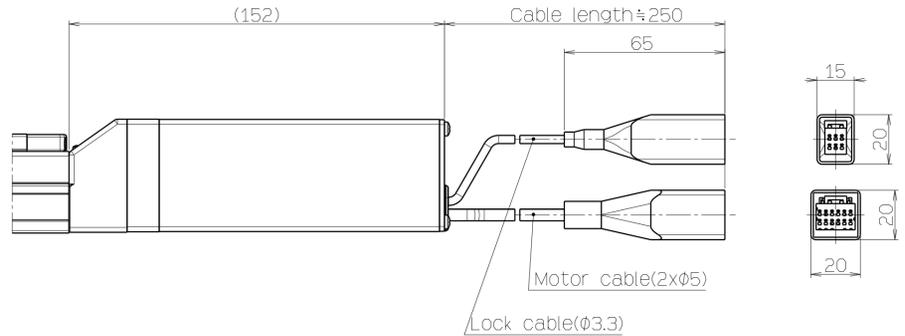


Table-3. Weight

Stroke[mm]	76	126	176	226	276	326	376	426	Additional weight with lock[kg]
Product weight[kg]	1.05	1.12	1.20	1.27	1.35	1.42	1.50	1.57	0.12

- Note
- Please refer the catalog for the detail.
 - When mounting the actuator by using "Body mounting reference plane", the height of attached surface or the height of pin should be 2mm or more. (5mm in recommended height)
 - Slide table moving range for return to home position etc.
Please avoid to hit to surrounding equipments and work pieces
 - Slide table location after returning to home position.
 - The number in brackets indicates when the direction of return to origin has changed.
 - Stroke on the drawing is a moving stroke which the table distance is 74 mm.
Increasing table distance would shorten the moving stroke.
 - Table distance can be fixed. Impact to the tables is not allowed.
 - Minimum table distance is when each tables are attached.
 - When conformity to UL is required, the electric actuator and controller should be used with a UL 1310 Class 2 power supply.
 - Unless otherwise noted along with a separate contract or agreement with in the Product Delivery Specifications, the safety instructions specified in the product catalog are applied.
Please contact your local SMC Sales office for further details.

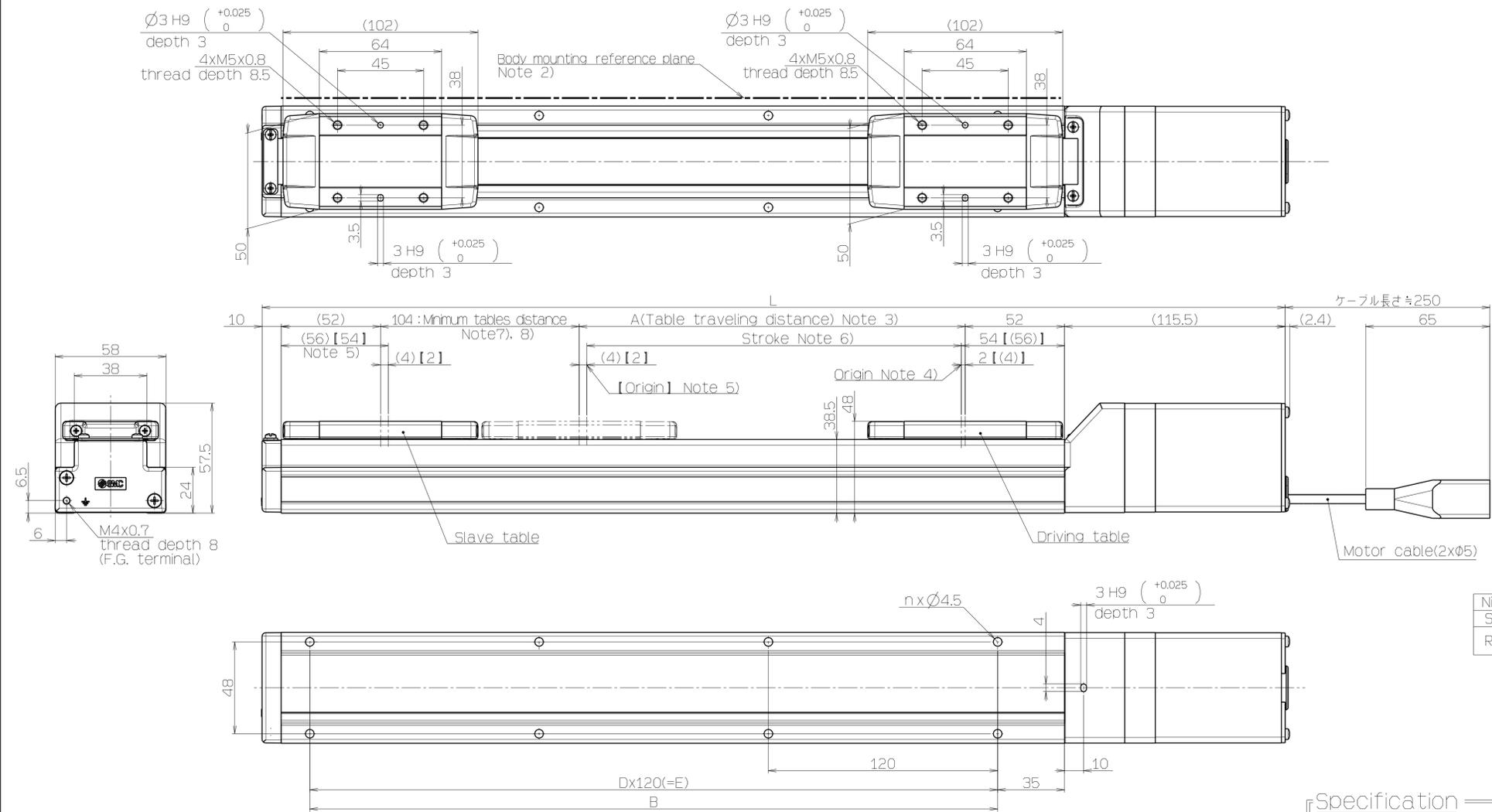
Table-2. Dimension

Model	L		A	B	n	D	E
	without lock	with lock					
LEFS16*-76*-*****-X61	347	389	82	230	4	-	-
LEFS16*-126*-*****-X61	397	439	132	280	6	2	200
LEFS16*-176*-*****-X61	447	489	182	330	6	2	200
LEFS16*-226*-*****-X61	497	539	232	380	8	3	300
LEFS16*-276*-*****-X61	547	589	282	430	8	3	300
LEFS16*-326*-*****-X61	597	639	332	480	10	4	400
LEFS16*-376*-*****-X61	647	689	382	530	10	4	400
LEFS16*-426*-*****-X61	697	739	432	580	12	5	500

Table-1. Specifications

Actuator specification	Stroke (mm)		76, 126, 176, 226, 276, 326, 376, 426
	work load (kg)	Horizontal	vertical
Speed (mm/s)			10 to 500 / 5 to 250
Max. acceleration/deceleration (mm/s ²)			3,000
Positioning repeatability (mm)			+/-0.02
Lead (mm)			10 / 5
Lost motion (mm)			0.1 or less
Impact/vibration resistance (m/s ²)			50 / 20
Actuation type			Ball screw
Guide type			Linear guide
Operating temperature range (°C)			5 to 40
Operating humidity range (%RH)			90 or less (No condensation)
Electric specification	Motor size	□28	
	Motor type	Step motor (Servo/24VDC)	
	Encoder	incremental A/B phase (800 pulse/rotation)	
	Rated voltage (V)	24VDC +/-10%	
Power consumption (w)			22
Standby power consumption when operating (w)			18
Max. instantaneous power consumption (w)			51
Lock specification	Type	Non-magnetizing lock	
	Holding force (N)	20 / 39	
	Power consumption (w)	2.9	
	Rated voltage (V)	24VDC +/-10%	

REVISION	DESCRIPTION	DATE	PREPARED	REV. NO.	SCALE	FINISH	PAINT	MASS	PACKING	MATERIAL	MODEL	ITY
						-	-	-	-	-		
TOLERANCES JS B GAZE	DRAWN	C.Matsumoto	SCALE	Free	THIRD ANGLE							
RANGE(mm)	DATE	2014-06-24	DESIGNED	T.Nakazawa	DWG NAME	Electric actuator/Slider type						
0.5-Ø3	DATE	2014-06-24	CHECKED		DWG NO.	[C]LEFS16**-*[X]61						
3-Ø56	DATE		APPROVED		DWG ID	AG58446800						
6-Ø30	DATE				SMC Corporation							
30-Ø120	DATE											
120-Ø1400	DATE											
Ø1400-Ø2000	DATE											



How to order
LEFS25*-***-*****-X61

Lead		Controller/Driver option	
H	20mm	Nil	Screw mounting type
A	12mm	D	DIN rail mounting type
B	6mm	*DIN rail is not included order it separately.	
Stroke		Controller/Driver type : 6*.1*.A* I/O cable length	
46	46mm	Nil	without cable
96	96mm	1	1.5m
146	146mm	3	3m
196	196mm	5	5m
246	246mm	LECPA selected Available for the differential pulse input. Only 1.5m cable is available for open collector input.	
296	296mm	Controller/Driver type : MJ Communication plug connector	
346	346mm	Nil	None
396	396mm	S	Straight type
446	446mm	T	T branch type
496	496mm	Controller/Driver type	
Motor option		6N	without controller/driver
Nil	without lock	6P	LECP6 (Step data input type)
B	with lock	1N	LECP1 (Programless type)
Actuator cable		MJ	LECPMJ (CC-Link Direct input type)
Nil	without cable	AN	LECPA (Pulse input type)
S	Standard cable	AP	LECPA (Pulse input type)
R	Robotic type cables (Flexible type cables)	Actuator cable length	
		Nil	without cable
		1	1.5m
		3	3m
		5	5m

*Produced upon receipt of order.
(Only "Robotic type cable" can be selected.)
If the cable length exceeds 5m, the speed will be reduced 10% per 5m as the maximum.
(if cable length is 15m: 20% reduction as the maximum.)

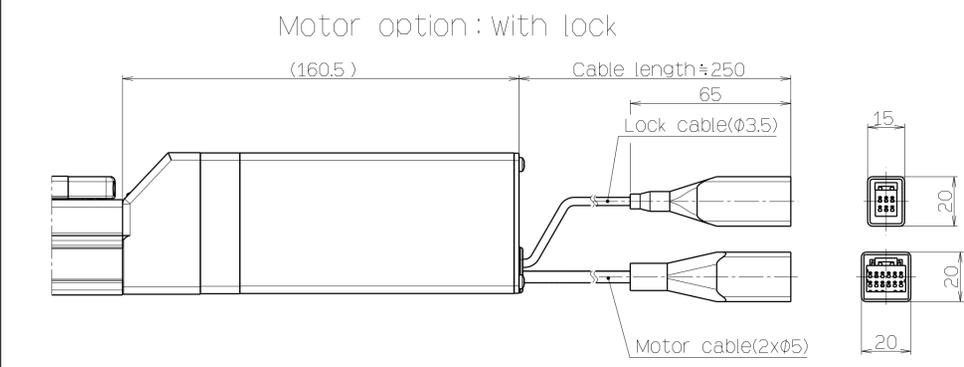


Table-3. Weight

stroke[mm]	46	96	146	196	246	296	346	396	446	496	Additional weight with lock[kg]
Product weight[kg]	2.19	2.33	2.47	2.61	2.75	2.89	3.03	3.17	3.31	3.45	0.26

- Note
- 1) Refer to the catalog for details.
 - 2) When mounting the electric actuator by using the body mounting reference plane, location pin 3 mm or more. (Recommended height: 5 mm)
 - 3) Side table moving range for return to home position etc. Please avoid to hit to surrounding equipments and work pieces
 - 4) Slide table location after retuning to home position.
 - 5) The number in brackets indicates when the direction of return to origin has changed.
 - 6) Stroke on the drawing is a moving stroke which the table distance is 104 mm. Increasing table distance would shorten the moving stroke.
 - 7) Table distance can be fixed. Impact to the tables is not allowed.
 - 8) Minimum table distance is when each tables are attached.
 - 9) When conformity to UL is required, the electric actuator and controller should be used with a UL 1310 Class 2 power supply.
 - 10) Unless otherwise noted along with a separate contract or agreement with in the Product Delivery Specifications, the safety instructions specified in the product catalog are applied. Please contact your local SMC Sales office for further details.

Table-2. Dimensions

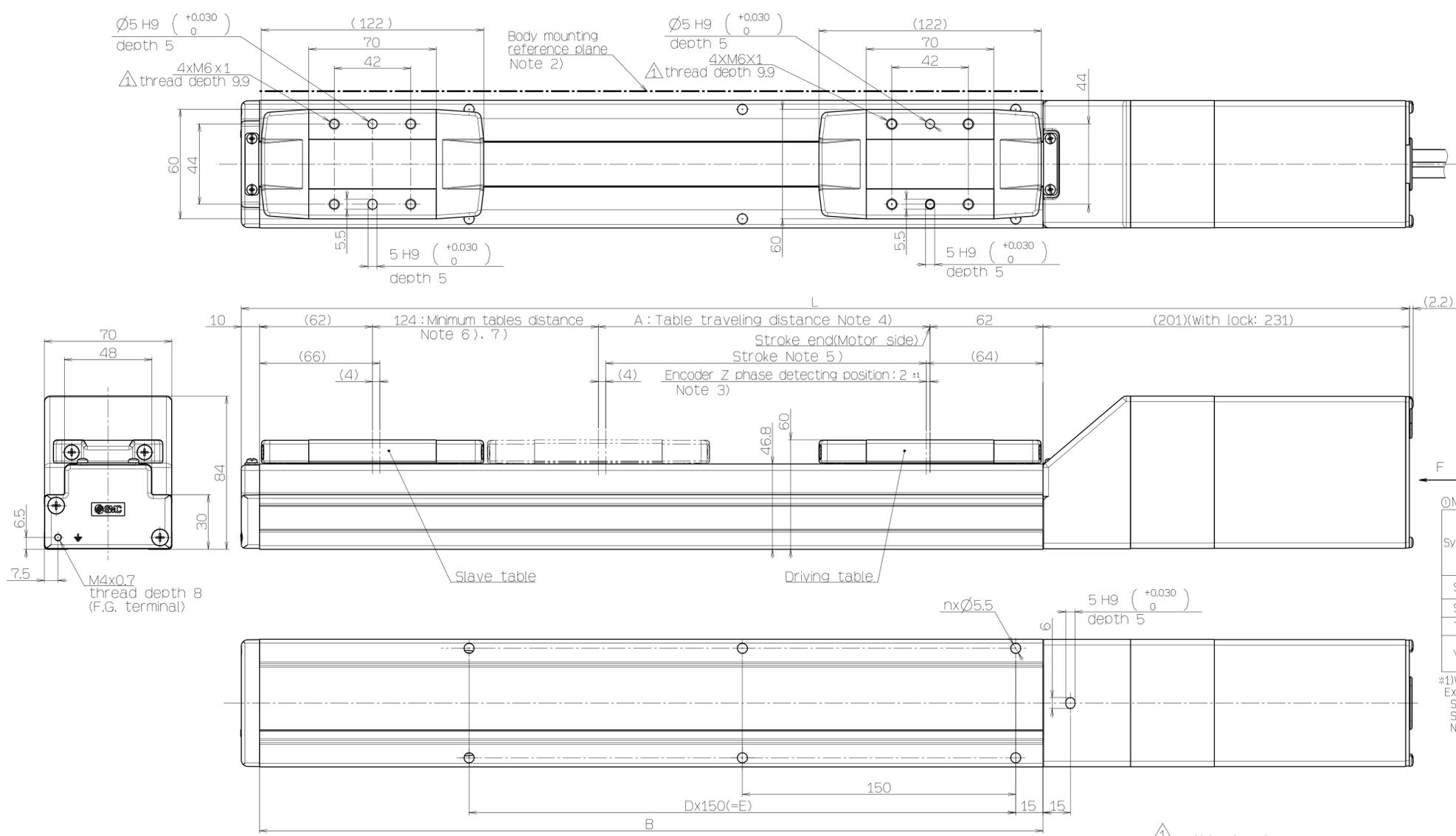
型式	L		A	B	n	D	E
	without lock	with lock					
LEFS25*-46*-*****-X61	385.5	430.5	52	260	4	-	-
LEFS25*-96*-*****-X61	435.5	480.5	102	310	6	2	240
LEFS25*-146*-*****-X61	485.5	530.5	152	360	6	2	240
LEFS25*-196*-*****-X61	535.5	580.5	202	410	8	3	360
LEFS25*-246*-*****-X61	585.5	630.5	252	460	8	3	360
LEFS25*-296*-*****-X61	635.5	680.5	302	510	8	3	360
LEFS25*-346*-*****-X61	685.5	730.5	352	560	10	4	480
LEFS25*-396*-*****-X61	735.5	780.5	402	610	10	4	480
LEFS25*-446*-*****-X61	785.5	830.5	452	660	12	5	600
LEFS25*-496*-*****-X61	835.5	880.5	502	710	12	5	600

Table-1. Specifications

Actuator specifications	Stroke [mm]	46, 96, 146, 196, 246, 296, 346, 396, 446, 496						
	Work load [kg]	Horizontal	10	20	20			
		vertical	0.5	7.5	15			
	Speed [mm/s]	Controller/Driver type	LECP6 LECP1 LECPMJ	Stroke range	to 396	20 to 1000	12 to 700	6 to 250
					to 496	20 to 900	12 to 540	
		LECPA	to 396	20 to 1000	12 to 500	6 to 250		
			to 496	20 to 900				
	Max. acceleration/deceleration [mm/s ²]	3,000						
	Positioning repeatability [mm]	±0.02						
	Lead [mm]	20, 12, 6						
Impact resistance/vibration resistance [m/s ²]	50 / 20							
Drive method	Ball screw							
Guide type	Linear guide							
Operating temperature range [°C]	5 to 40							
Operating humidity range [%RH]	90 or less (No condensation)							
Motor size	□42							
Motor type	Step motor (Servo 24VDC)							
Encoder	incremental A/B phase (800 pulse/rotation)							
Rated voltage [VDC]	24VDC ±10%							
Power consumption [W]	38							
Standby power consumption when operating [W]	16							
Max. instantaneous power consumption [W]	57							
Type	Non-magnetizing lock							
Holding force [N]	47, 78, 157							
Power consumption [W]	5							
Rated voltage [V]	24VDC ±10%							

REV. NO.	DESCRIPTION	DATE	PREPARED	REV. NO.	PACKING	MODEL	QTY
TOLERANCES JS B GADE		DRAWN	C.Matsumoto	SCALE			
RANGE (mm)	F	DATE	2014-06-24	Free			
0.5- $\varnothing 3$	0.1	DESIGNED	T.Nakazawa	DWG NAME			
3- $\varnothing 56$	0.1	DATE	2014-06-24	Electric actuator/Slider type			
6- $\varnothing 30$	0.1	CHECKED		DWG NO.			
30- $\varnothing 250$	0.1	DATE		[C]LEFS25*-***-*****-X61			
120- $\varnothing 640$	0.2	APPROVED					
490- $\varnothing 1000$	0.3	DATE					
1000- $\varnothing 2000$	0.5						

DWG ID: AG58446900 SMC Corporation



How to order

LEFS32***-***-***

Motor type: H (24mm), A (16mm), B (8mm)

Lead: H (24mm), A (16mm), B (8mm)

Stroke: 76 (76mm), 126 (126mm), 176 (176mm), 676 (676mm)

Motor option: Nil (Without Lock), B (with Lock)

Cable type: Nil (Without Cable), S (Standard cable), R (Robotic type cables)

I/O connector: Nil (without connector), H (with connector)

Driver type *1):

Symbol	Applicable driver	Power supply voltage
Nil	Without driver	-
A1	LECSA1-S0	100 to 120V
A2	LECSA2-S0	200 to 230V
B1	LECSB1-S0	100 to 120V
B2	LECSB2-S0	200 to 230V
C1	LECSA1-S0	100 to 120V
C2	LECSA2-S0	200 to 230V
S1	LECSS1-S0	100 to 120V
S2	LECSS2-S0	200 to 240V
M2	LECYM2-V0	200 to 230V
U2	LECYU2-V0	200 to 230V

Cable length *1) *2):

Symbol	Length	Motor type S3/S7/T7	Motor type V7
Nil	Without cable	●	●
2	2m	●	-
3	3m	-	●
5	5m	●	●
A	10m	●	●
C	20m	-	●

Motor type/Applicable driver

Symbol	Type	Output (Size)	Compatible interface (Driver type symbol)			
			Pulse input (AD, BD)	CC-Link (C0)	SSCNET (SD)	MECHATROLINK (M2, U2)
S3	AC servo motor (Incremental encoder)	200W (D60)	LECSAD-S3	-	-	-
S7	AC servo motor (Absolute encoder)	200W (D60)	LECSBD-S7	LECSSD-S7	-	-
T7			-	-	LECSS2-T7	-
V7			-	-	-	LECYM2-V7

*1)When (with driver) is selected, cable is included. Select cable type and length surely.
 Example)
 S2S2: Standard cable (2m)+driver (LECSS2)
 S2 : Standard cable (2m)
 Nil : Without cable and driver

Specification

1)Double table

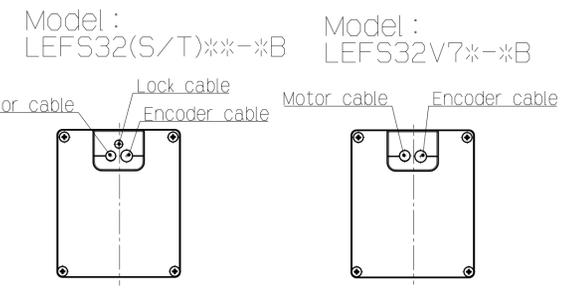
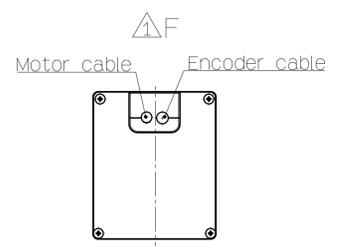
Table-1. Actuator specifications

Stroke [mm]	76, 126, 176, 226, 276, 326, 376, 426, 476, 526, 576, 626, 676
work load [kg]	Horizontal: 30, 40, 45; Vertical: 5, 10, 20
Max. speed [mm/s]	Stroke range: 377 to 476 (1500, 1200, 930), 477 to 576 (1000, 800, 620), 577 to 676 (500, 310, 250)
Pushing speed of return to origin [mm/s]	30 or less
Max. acceleration/deceleration [mm/s ²]	20,000 (Refer to catalog for limit according to work load and duty ratio.)
Positioning repeatability [mm]	±0.02
Lost motion [mm]	0.1 or less
Lead [mm]	24, 16, 8
Impact resistance/vibration resistance [m/s ²]	50 / 20
Drive method	Ball screw
Guide type	Linear guide
Operating temperature range [°C]	5 to 40
Operating humidity range [%RH]	90 or less (No condensation)
Regeneration option	Note B)

Table-4. Cable

Motor type	Encoder cable	Motor cable without lock	Motor cable with lock (Note)	Lock cable (Note)
S3/S7/T7	φ7	φ6	-	φ4.5
V7	φ7	φ7	φ7	-

Note) Motor option/with lock is selected.
 S3/S7/T7: Encoder · Motor · Lock/3 pcs.
 V7 : Encoder · Motor(with lock)/2 pcs.

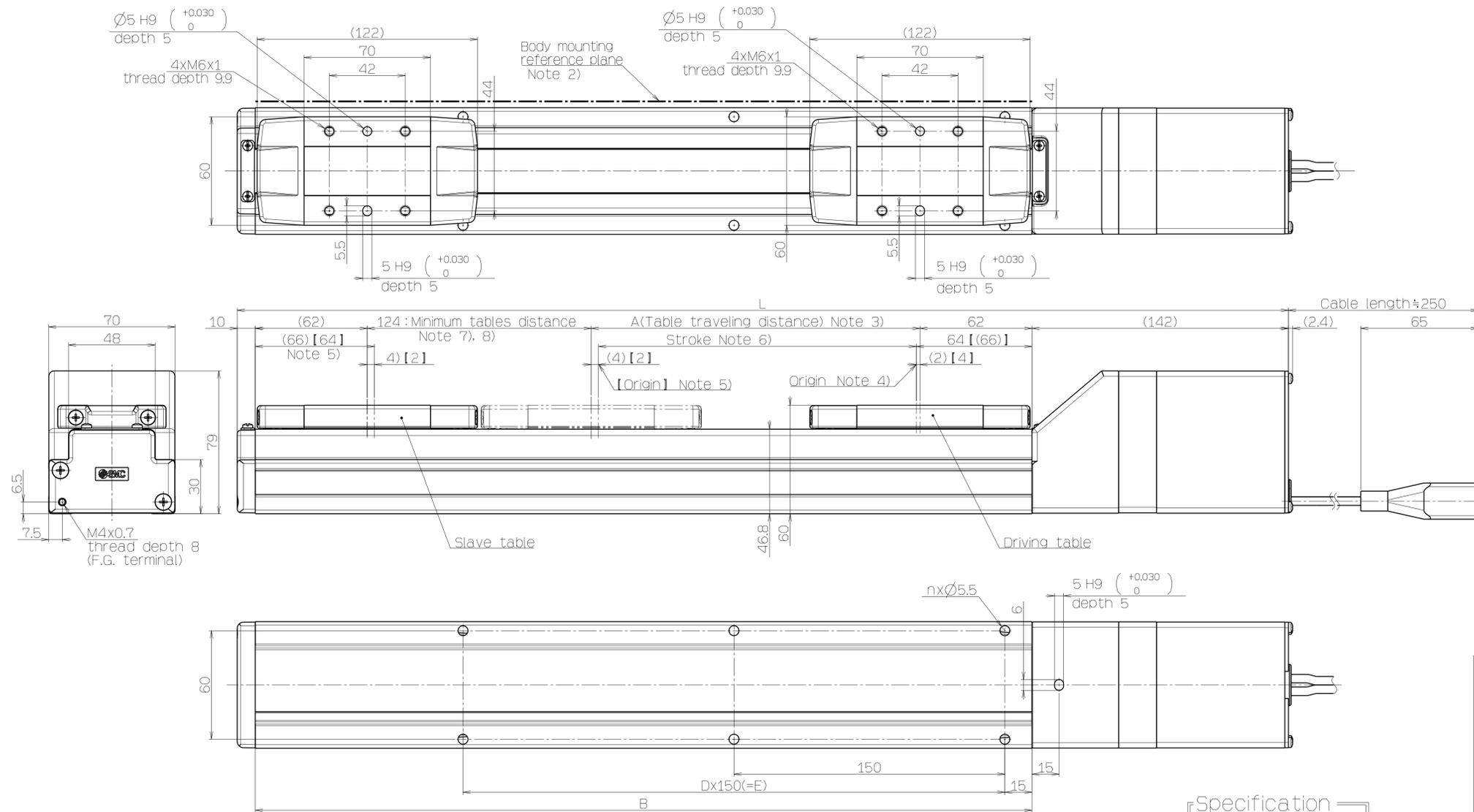


Note

- Refer to the catalog for details.
- When mounting the electric actuator using the body mounting reference plane, set the height of the opposite surface or pin to 3mm or more because of R chamfering.(Recommended height: 5mm)
- The Z phase first detecting position from the stroke end of the motor side.
- Don't hit the table to both stroke end. It will damage the actuator.
- Stroke on the drawing is a moving stroke which the table distance is 124 mm. Increasing table distance would shorten the moving stroke.
- Table distance can be fixed. Impact to the tables is not allowed.
- Minimum table distance is when each tables are attached.
- Needed, depends on speed and acceleration. Check "Speed-work load Graph"on catalog.
- Refer to "Specifications table" of the catalog for electric specifications(motor and lock).
- Unless otherwise noted along with a separate contract or agreement with in the Product Specifications,the safety instructions specified in the product catalog are applied. Please contact your local SMC Sales office for further details.

Table-3. Weight

Stroke[mm]	76	126	176	226	276	326	376	426	476	526	576	626	676	Additional weight with lock[kg]
weight[kg]	4.63	4.83	5.03	5.23	5.43	5.63	5.83	6.03	6.23	6.43	6.63	6.83	7.03	0.70



How to order
LEFS32*-**-**-*S32*-X61

Lead

H	24mm
A	16mm
B	8mm

Stroke

76	76mm
126	126mm
176	176mm
226	226mm
276	276mm
326	326mm
376	376mm
426	426mm
476	476mm
526	526mm
576	576mm
626	626mm
676	676mm

Motor option

Nil	without lock
B	with lock

Actuator cable

Nil	without cable
S	Standard cable
R	Robotic cables (Flexible cables)

Controller/Driver option

Nil	Screw mounting type
D	DIN rail mounting type

*DIN rail is not included order it separately.

Controller/Driver type

6N	LECP6 (Step data input type)	NPN
6P	LECP1 (Programless type)	PNP
1N	LECP1 (Pulse input type)	PNP
1P	LECP1 (Pulse input type)	PNP
MJ	LECPMJ (CC-Link Direct input type)	-
AN	LECPA (Pulse input type)	NPN
AP	LECPA (Pulse input type)	PNP

Actuator cable length

Nil	without cable	8	8m
1	1.5m	A	10m
3	3m	B	15m
5	5m	C	20m

*Produced upon receipt of order.
(Only "Robotic type cable" can be selected.)
If the cable length exceeds 5m, the speed will be reduced 10% per 5m as the maximum.
(If cable length is 15m: 20% reduction as the maximum.)

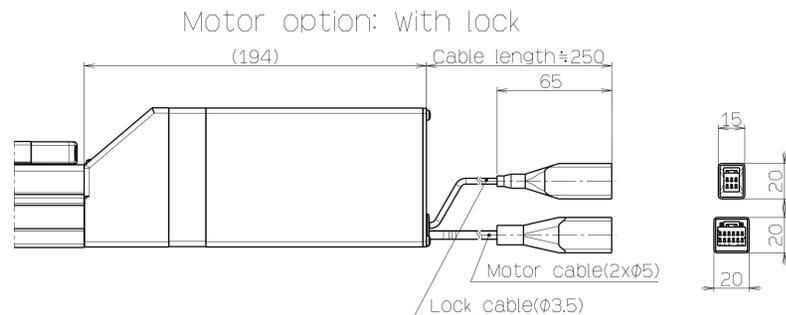


Table-2. Dimensions

Model	L		A	B	n	D	E
	without lock	with lock					
LEFS32*-76*-**-*S32*-X61	482	534	82	330	6	2	300
LEFS32*-126*-**-*S32*-X61	532	584	132	380	6	2	300
LEFS32*-176*-**-*S32*-X61	582	634	182	430	6	2	300
LEFS32*-226*-**-*S32*-X61	632	684	232	480	8	3	450
LEFS32*-276*-**-*S32*-X61	682	734	282	530	8	3	450
LEFS32*-326*-**-*S32*-X61	732	784	332	580	8	3	450
LEFS32*-376*-**-*S32*-X61	782	834	382	630	10	4	600
LEFS32*-426*-**-*S32*-X61	832	884	432	680	10	4	600
LEFS32*-476*-**-*S32*-X61	882	934	482	730	10	4	600
LEFS32*-526*-**-*S32*-X61	932	984	532	780	12	5	750
LEFS32*-576*-**-*S32*-X61	982	1034	582	830	12	5	750
LEFS32*-626*-**-*S32*-X61	1032	1084	632	880	12	5	750
LEFS32*-676*-**-*S32*-X61	1082	1134	682	930	14	6	900

Note

- Refer to the catalog for details.
- When mounting the electric actuator using the body mounting reference plane, set the height of the opposite surface or pin to 3mm or more because of R chamfering. (Recommended height: 5mm)
- Distance within which the table can move when it returns to origin. Make sure a workpiece mounted on the table does not interfere with the workpieces and facilities around the table.
- Positions after return to origin.
- The number in brackets indicates when the direction of return to origin has changed.
- Stroke on the drawing is a moving stroke which the table distance is 124 mm, increasing table distance would shorten the moving stroke.
- Table distance can be fixed. Impact to the tables is not allowed.
- Minimum table distance is when each tables are attached.
- When conformity to UL is required, the electric actuator and controller should be used with a UL 1310 Class 2 power supply.
- Unless otherwise noted along with a separate contract or agreement with in the Product Delivery Specifications, the safety instructions specified in the product catalog are applied. Please contact your local SMC Sales office for further details.

Table-3. Weight

stroke(mm)	76	126	176	226	276	326	376	426	476	526	576	626	676	Additional weight with lock(kg)
Product weight(kg)	3.98	4.18	4.38	4.58	4.78	4.98	5.18	5.38	5.58	5.78	5.98	6.18	6.38	0.53

Table-1. Specifications

Stroke [mm]		76, 126, 176, 226, 276, 326, 376, 426, 476, 526, 576, 626, 676					
Work load [kg]	Horizontal	15	40	45			
	vertical	4	10	20			
Speed [mm/s]	Controller/Driver type	LECP6 LECP1 LECPMJ	Stroke range	to 476 477 to 576 577 to 676	24 to 1200 24 to 930 24 to 750	16 to 800 16 to 620 16 to 500	8 to 250
			LECPA	to 476 477 to 576 577 to 676	24 to 1200 24 to 930 24 to 750	16 to 500	8 to 250
		Max. acceleration/deceleration [mm/s ²]		3,000			
		Positioning repeatability [mm]		±0.02			
Lead [mm]		24, 16, 8					
Impact resistance/vibration resistance [m/s ²]		50 / 20					
Drive method		Ball screw					
Guide type		Linear guide					
Operating temperature range [°C]		5 to 40					
Operating humidity range [%RH]		90 or less (No condensation)					
Motor size		□56.4					
Motor type		Step motor (Servo 24VDC)					
Encoder		Incremental A/B phase (800 pulse/rotation)					
Rated voltage [VDC]		24VDC±10%					
Power consumption [w]		50					
Standby power consumption when operating [w]		44					
Max. instantaneous power consumption [w]		123					
Type		Non-magnetizing lock					
Holding force [N]		72, 108, 216					
Power consumption [w]		5					
Rated voltage [V]		24VDC ±10%					

REVISION: 1.0

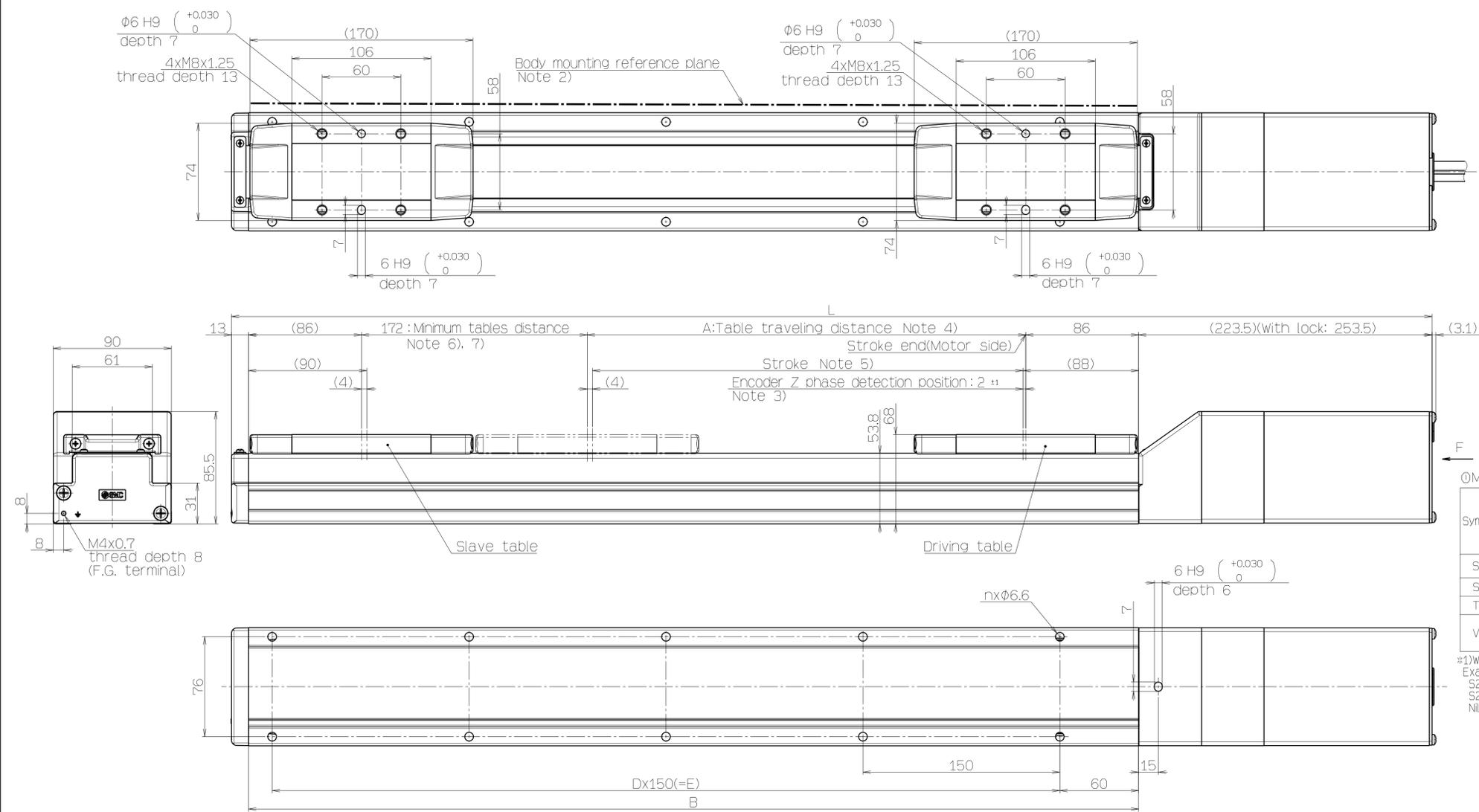
DESCRIPTION: Electric actuator/Slider type

DATE: 2014-06-24

SCALE: Free

DWG ID: AG58447000

SMC Corporation



How to order

LEFS40***-***-****-X61

Motor type

Lead	H 30mm
	A 20mm
	B 10mm

Stroke

128	128mm
178	178mm
>	>
828	828mm

*Deal with per 50mm.

Motor option

Nil	without Lock
B	with Lock

Cable type

Nil	without Cable
S	Standard cable
R	Robotic type cables (Flexible type cables)

*Motor cable and Encoder cable are included to the actuator. (When Motor option "with lock" is selected, Lock cable is included too.)

I/O connector

Nil	without connector
H	with connector

Driver type *1)

Symbol	Applicable driver	Power supply voltage
Nil	without driver	-
A2	LECSA2-SD	200 to 230V
B2	LECSB2-SD	200 to 230V
C2	LECS2-SD	200 to 230V
S2	LECS2-SD	200 to 230V
M2	LECS2-TD	200 to 240V
U2	LECYM2-V0	200 to 230V
	LECYU2-V0	200 to 230V

Cable length *1) *2)

Symbol	Length	Motor type
Nil	without cable	S4/S8/T8/V8
2	2m	-
3	3m	-
5	5m	-
A	10m	-
C	20m	-

*2) The length of motor, encoder and lock cable are same.

Motor type/Applicable driver

Symbol	Type	Output (Size)	Pulse input (AD, BD)	CC-Link (CD)	Compatible interface (Driver type symbol)		
					SSNET (SD)	MECHATROLINK (M2, U2)	
S4	AC servo motor (Incremental encoder)	400W (D60)	LECSAD-S4	-	-	-	-
S8			LECSAD-S8	LECSAD-S8	LECSAD-S8	-	-
T8			-	-	LECS2-T8	-	-
V8			-	-	-	LECYM2-V8	-
			-	-	-	-	LECYU2-V8

*1) When (with driver) is selected, cable is included. Select cable type and length surely.
 Example)
 S2S2: Standard cable (2m)+driver (LECS2)
 S2 : Standard cable (2m)
 Nil : without cable and driver

Specification

1) Double table

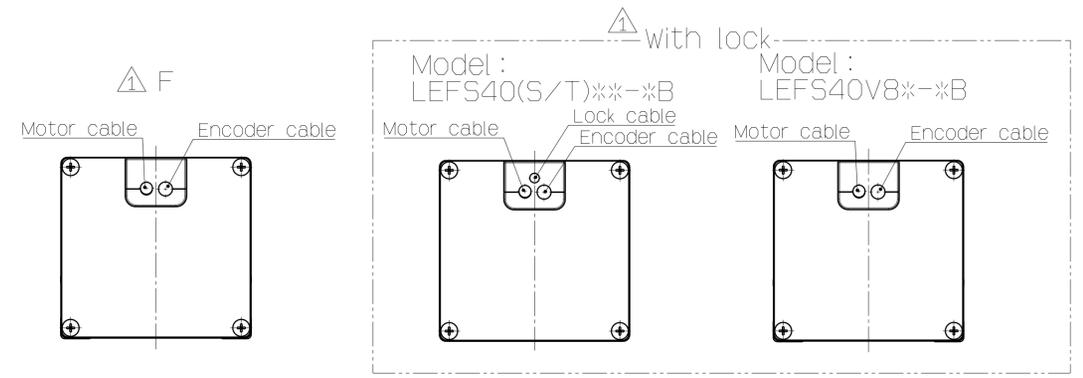
Table-4. Cable

Motor type	Encoder cable	Motor cable		Lock cable (Note)
		without lock	with lock (Note)	
S4/S8/T8	$\phi 7$	$\phi 6$	-	$\phi 4.5$
V8	$\phi 7$	$\phi 7$	-	-

Note) Motor option/with lock is selected.
 S4/S8/T8: Encoder·Motor·Lock/3 pcs.
 V8 : Encoder·Motor(with lock)/2 pcs.

Table-2. Dimensions

Model	L		A	B	n	D	E
	without lock	with lock					
LEFS40**128**-*X61	714.5	744.5	134	478	6	2	300
LEFS40**178**-*X61	764.5	794.5	184	528	8	3	450
LEFS40**228**-*X61	814.5	844.5	234	578	8	3	450
LEFS40**278**-*X61	864.5	894.5	284	628	8	3	450
LEFS40**328**-*X61	914.5	944.5	334	678	10	4	600
LEFS40**378**-*X61	964.5	994.5	384	728	10	4	600
LEFS40**428**-*X61	1014.5	1044.5	434	778	10	4	600
LEFS40**478**-*X61	1064.5	1094.5	484	828	12	5	750
LEFS40**528**-*X61	1114.5	1144.5	534	878	12	5	750
LEFS40**578**-*X61	1164.5	1194.5	584	928	12	5	750
LEFS40**628**-*X61	1214.5	1244.5	634	978	14	6	900
LEFS40**678**-*X61	1264.5	1294.5	684	1028	14	6	900
LEFS40**728**-*X61	1314.5	1344.5	734	1078	14	6	900
LEFS40**778**-*X61	1364.5	1394.5	784	1128	16	7	1050
LEFS40**828**-*X61	1414.5	1444.5	834	1178	16	7	1050



- Note
- Refer to the catalog for details.
 - When mounting the electric actuator using the body mounting reference plane, set the height of the opposite surface or pin to 3mm or more because of R chamfering. (Recommended height: 5mm)
 - The Z phase first detecting position from the stroke end of the motor side.
 - Don't hit the table to both stroke end. It will damage the actuator.
 - Stroke on the drawing is a moving stroke which the table distance is 172 mm. Increasing table distance would shorten the moving stroke.
 - Table distance can be fixed. Impact to the tables is not allowed.
 - Minimum table distance is when each tables are attached.
 - Needed, depends on speed and acceleration. Check "Speed-work load Graph" on catalog.
 - Refer to "Specifications table" of the catalog for electric specifications (motor and lock).
 - Unless otherwise noted along with a separate contract or agreement with in the Product Delivery Specifications, the safety instructions specified in the product catalog are applied. Please contact your local SMC Sales office for further details.

Table-1. Actuator specifications

Stroke [mm]	128, 178, 228, 278, 328, 378, 428, 478, 528, 578, 628, 678, 728, 778, 828				
	Horizontal	30	50	60	
Work load [kg]	Vertical	7	15	30	
	to 428	1500	1000	500	
Max. speed [mm/s]	Stroke range	429 to 528	1410	940	470
		529 to 628	1140	760	380
		629 to 728	930	620	310
		729 to 828	780	520	260
Pushing speed of return to origin [mm/s]		30 or less			
Max. acceleration/deceleration [mm/s ²]		20,000 (Refer to catalog for limit according to work load and duty ratio.)			
Positioning repeatability [mm]		±0.02			
Lost motion [mm]		0.1 or less			
Lead [mm]		30	20	10	
Impact resistance/vibration resistance [m/s ²]		50 / 20			
Drive method		Ball screw			
Guide type		Linear guide			
Operating temperature range [°C]		5 to 40			
Operating humidity range [%RH]		90 or less (No condensation)			
Regeneration option		Note 8)			

FINISH	PAINT	
6	Add model	2014-06-24 T.Nakazawa
	First drawing	2014-05-19 M.Taketsugu
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SCALE: Free

DATE: 2014-06-24

DESIGNED: T.Nakazawa

CHECKED: T.Nakazawa

APPROVED: T.Nakazawa

Electric actuator/Slider type

DWG ID: AC658426101

SMC Corporation

