



Electric actuator (motorless) Slider

EBS-04LE

Straight motor mounting

● Stepper motor size: ☐42

RoHS

How to order

EBS

-

04

L

E

-

06

0300

N

NN

-

A

A

N

N

A

Body size

04

Body width 44 mm

B

Motor

L

None

C

Motor mounting direction

E

Straight mounting

D

Screw lead

06

6 mm

12

12 mm

E

Stroke length

0050

50 mm

to

0500

500 mm

(In 50 mm increments)

F

Brake

N

None

G

Mounted motor specification

A

Select the mounted motor specification from the table at right.

B

H

Motor size

A

☐42

I

Origin sensor *1

N

None

C

Yes

J

Limit sensor *1

N

None

B

Yes

Manufacturer

☐ 42

Oriental Motor Co., Ltd.

A

MinebeaMitsumi Inc.

B

Dyadic Systems Co., Ltd.

B

*Refer to page 519 for the motor model No.

*1 Origin sensor and limit sensor are available as a set. As it is both-or-nothing, select "None" for both.

Specifications			Stroke and max. speed	
Applicable motor sizes			☐ 42 Stepper motor	
Drive method			Ball screw ø10	
Stroke length mm			50 to 500	
Screw lead mm			6	12
Max. load capacity kg *1	Horizontal	20	300	
	Vertical	5		
Max. speed mm/s			600	
Rated thrust *1 N			141	71
Repeatability mm			±0.01	
Lost motion mm			0.1 or less	
Static allowable load N			1030	
Static allowable moment N·m			MP: 62, MY: 62, MR: 92	
Drive system weight kg			0.3	
Other inertia kg·cm ²			0.045	
Coefficient of friction			0.03	
Mechanical efficiency			0.8	
Sliding resistance N			6	
Ball screw length			Stroke + 200	
Operating ambient temperature, humidity			0 to 40°C (no freezing) 35 to 80% RH (no condensation)	
Storage ambient temperature, humidity			-10 to 50°C (no freezing) 35 to 80% RH (no condensation)	
Atmosphere			No corrosive gas, explosive gas, or dust	

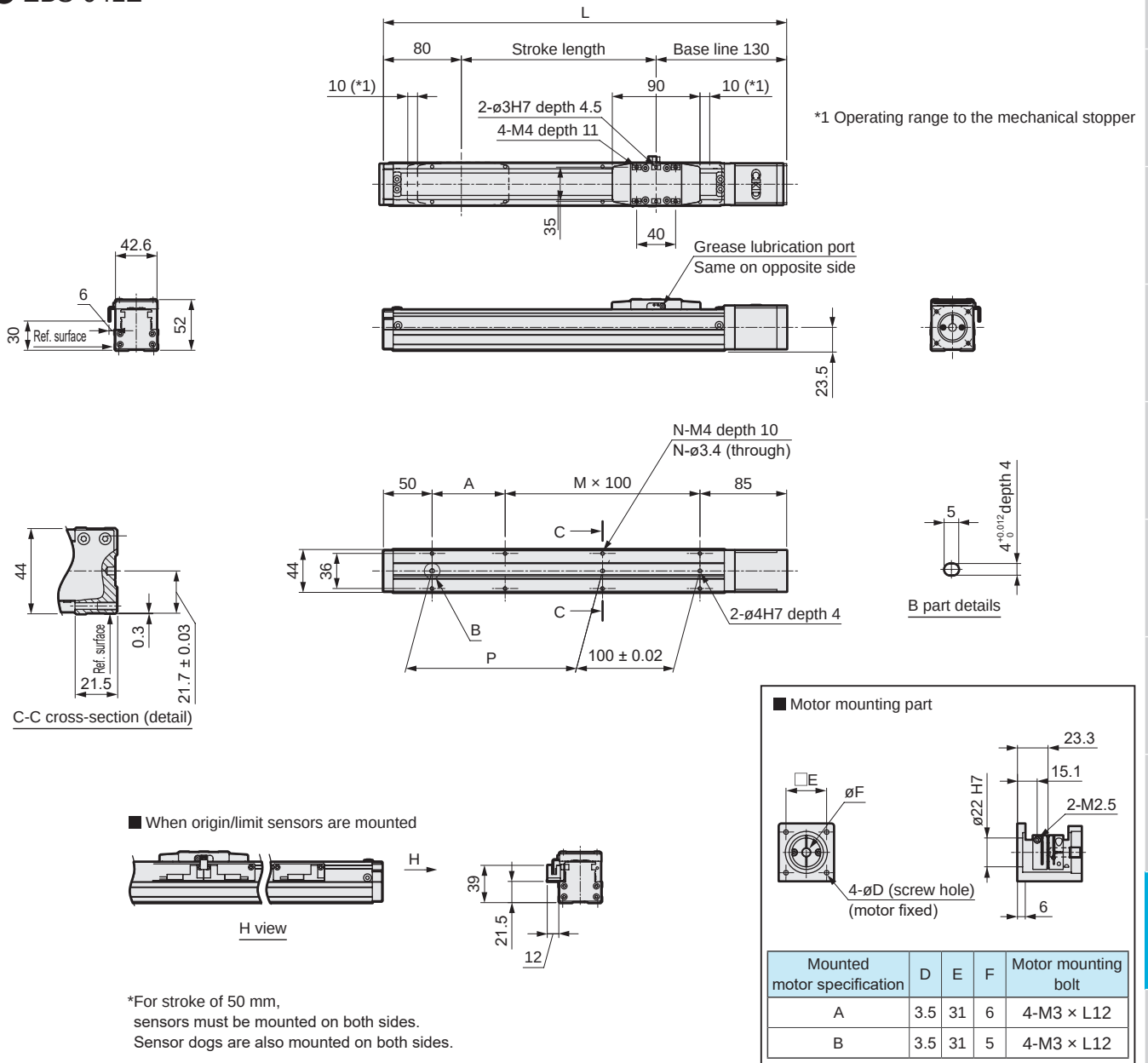
Allowable overhang length		
*Refer to page 540 for details.		

Moment direction		
MP	MY	MR

*1 The rated thrust and max. load capacity values are the allowable values for the actuator body; the actual thrust and load capacity are limited by the motor used.

Dimensions Straight motor mounting

● EBS-04LE



Stroke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500
Stroke length (mm)	50	100	150	200	250	300	350	400	450	500
L	260	310	360	410	460	510	560	610	660	710
A	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5
N	6	6	8	8	10	10	12	12	14	14
P	25	75	125	175	225	275	325	375	425	475
Weight (kg)	1.0	1.1	1.3	1.5	1.7	1.8	2.0	2.2	2.4	2.6

List of attachments

[Motor mounting parts]

Mounted motor specification	Coupling	Motor mounting bolt	
		Size	Quantity
A	Assembled at shipment	M3	4
B		M3	4

[Origin sensor, limit sensor]

Sensor		
Manufacturer	Model	Included quantity
OMRON Corporation	EE-SX674	3

*Refer to page 548 for sensor specifications.



Electric actuator (motorless) Slider

EBS-04L*

Motor side mounting (left, right, bottom)

● Stepper motor size: ☐ 42

RoHS

How to order

EBS - 04 L R - 06 0300 N NN - A A N N

A Body size
04 Body width 44 mm

B Motor
L None

C Motor mounting direction
R Right mounting
D Bottom mounting
L Left mounting

D Screw lead
06 6 mm
12 12 mm

E Stroke length
0050 50 mm
to 0500 (In 50 mm increments) 500 mm

F Brake
N None

G Mounted motor specification
A Select the mounted motor specification from the table at right.
B

H Motor size
A ☐ 42

I Origin sensor *1
N None
C Yes

J Limit sensor *1
N None
B Yes

Manufacturer	☐ 42
Oriental Motor Co., Ltd.	A
MinebeaMitsumi Inc.	B
Dyadic Systems Co., Ltd.	B

*Refer to page 519 for the motor model No.

*1 Origin sensor and limit sensor are available as a set. As it is both-or-nothing, select "None" for both.

Specifications

Applicable motor sizes	☐ 42 Stepper motor	
Drive method	Ball screw ϕ 10	
Stroke length mm	50 to 500	
Screw lead mm	6	12
Max. load capacity kg *1	Horizontal 20	Vertical 12
	5	2
Max. speed mm/s	300	600
Rated thrust *1 N	141	71
Repeatability mm	± 0.01	
Lost motion mm	0.1 or less	
Static allowable load N	1030	
Static allowable moment N·m	MP: 62, MY: 62, MR: 92	
Drive system weight kg	0.3	
Other inertia kg·cm ²	0.09	
Coefficient of friction	0.03	
Mechanical efficiency	0.8	
Sliding resistance N	6	
Ball screw length	Stroke + 200	
Operating ambient temperature, humidity	0 to 40°C (no freezing) 35 to 80% RH (no condensation)	
Storage ambient temperature, humidity	-10 to 50°C (no freezing) 35 to 80% RH (no condensation)	
Atmosphere	No corrosive gas, explosive gas, or dust	

*1 The rated thrust and max. load capacity values are the allowable values for the actuator body; the actual thrust and load capacity are limited by the motor used.

Stroke and max. speed

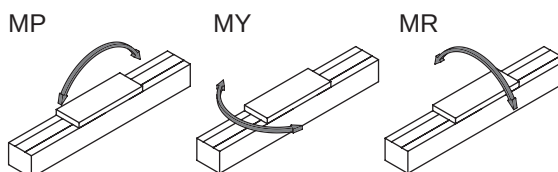
(mm/s)	
Stroke length	50 to 500
Screw lead	
6	300
12	600

*Max. speed is when the motor mounted by the customer can output rotation speed of 3000 rpm.
The max. speed is restricted by the stroke. Do not move at speeds beyond the limit.

Allowable overhang length

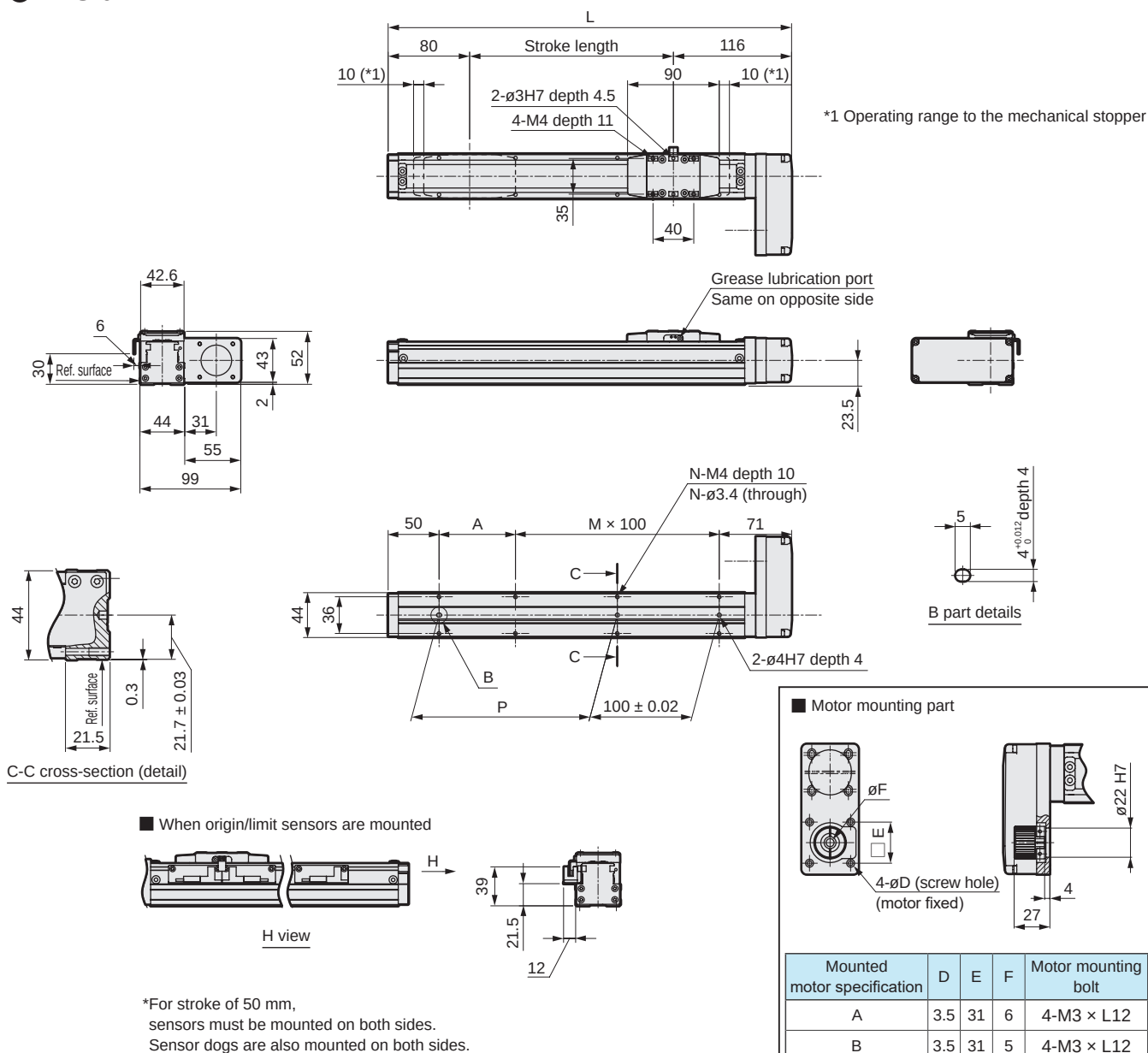
*Refer to page 540 for details.

Moment direction



Dimensions Motor right-side mounting

● EBS-04LR



Stroke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500
Stroke length (mm)	50	100	150	200	250	300	350	400	450	500
L	246	296	346	396	446	496	546	596	646	696
A	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5
N	6	6	8	8	10	10	12	12	14	14
P	25	75	125	175	225	275	325	375	425	475
Weight (kg)	1.0	1.2	1.4	1.7	1.8	1.9	2.1	2.3	2.5	2.7

List of attachments

[Motor mounting parts]

Mounted motor specification	Timing belt, pulley	Motor mounting bolt	
		Size	Quantity
A	Included at shipment	M3	4
B		M3	4

[Origin sensor, limit sensor]

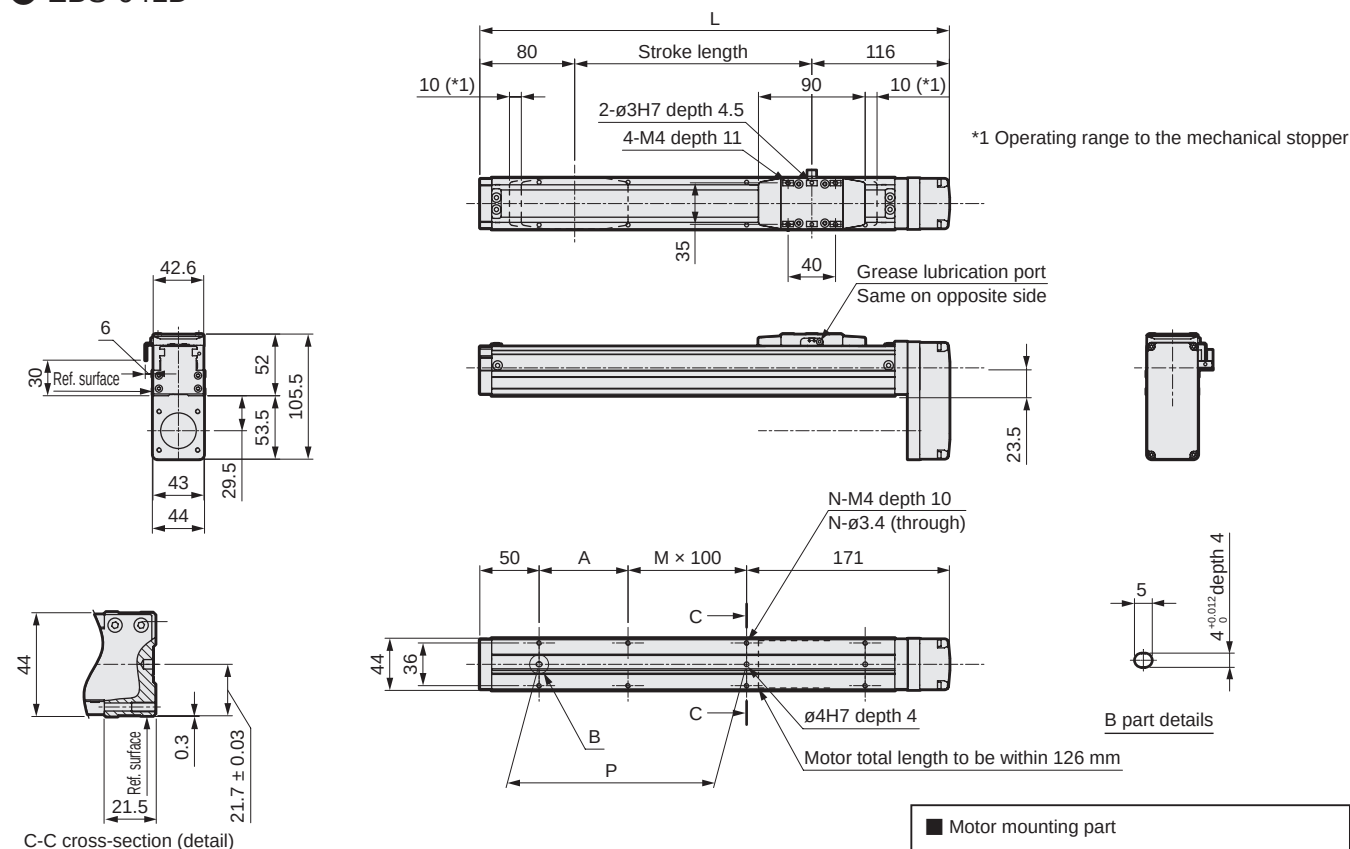
Sensor		
Manufacturer	Model	Included quantity
OMRON Corporation	EE-SX674	3

*Refer to page 548 for sensor specifications.

EBS-04L*

Dimensions Motor bottom mounting

● EBS-04LD



Stroke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500
Stroke length (mm)	50	100	150	200	250	300	350	400	450	500
L	246	296	346	396	446	496	546	596	646	696
A	25	75	25	75	25	75	25	75	25	75
M	0	0	1	1	2	2	3	3	4	4
N	4	4	6	6	8	8	10	10	12	12
P	25	75	125	175	225	275	325	375	425	475
Weight (kg)	1.0	1.2	1.4	1.7	1.8	1.9	2.1	2.3	2.5	2.7

List of attachments

[Motor mounting parts]

Mounted motor specification	Timing belt, pulley	Motor mounting bolt	
		Size	Quantity
A	Included at shipment	M3	4
B		M3	4

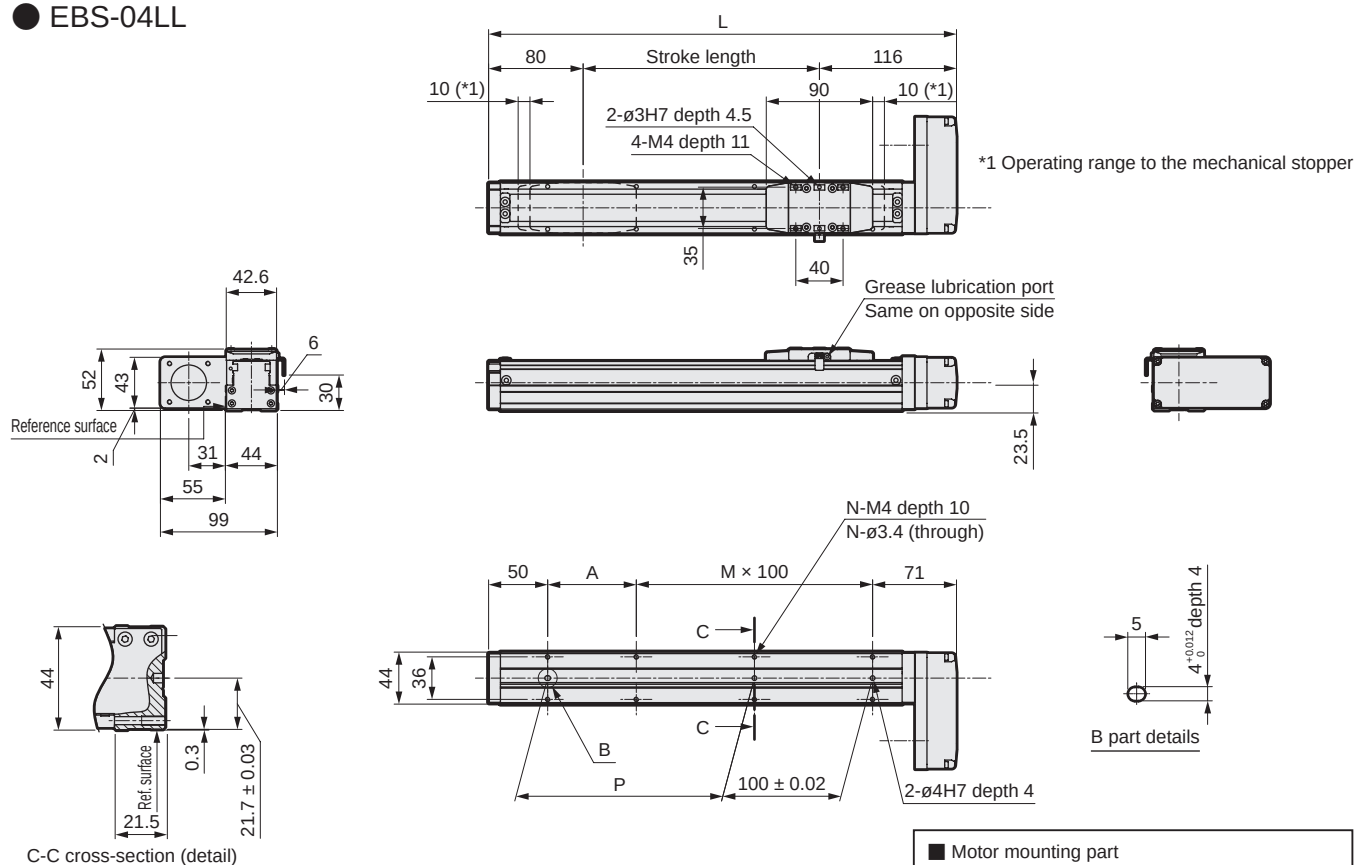
[Origin sensor, limit sensor]

Sensor		
Manufacturer	Model	Included quantity
OMRON Corporation	EE-SX674	3

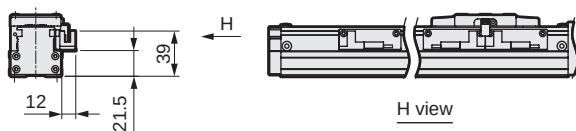
*Refer to page 548 for sensor specifications.

Dimensions Motor left-side mounting

● EBS-04LL



■ When origin/limit sensors are mounted



*For stroke of 50 mm, sensors must be mounted on both sides. Sensor dogs are also mounted on both sides.

Mounted motor specification	D	E	F	Motor mounting bolt
A	3.5	31	6	4-M3 $\times$ L12
B	3.5	31	5	4-M3 $\times$ L12

Stroke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500
Stroke length (mm)	50	100	150	200	250	300	350	400	450	500
L	246	296	346	396	446	496	546	596	646	696
A	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5
N	6	6	8	8	10	10	12	12	14	14
P	25	75	125	175	225	275	325	375	425	475
Weight (kg)	1.0	1.2	1.4	1.7	1.8	1.9	2.1	2.3	2.5	2.7

List of attachments

[Motor mounting parts]

Mounted motor specification	Timing belt, pulley	Motor mounting bolt	
		Size	Quantity
A	Included at shipment	M3	4
B		M3	4

[Origin sensor, limit sensor]

Sensor		
Manufacturer	Model	Included quantity
OMRON Corporation	EE-SX674	3

*Refer to page 548 for sensor specifications.



Electric actuator (motorless) Slider

EBS-05LE

Straight motor mounting

● Stepper motor size: ☐42

RoHS

How to order

EBS - 05 L E - 02 0300 N NN - A A N N

A Body size
05 Body width 54 mm

B Motor
L None

C Motor mounting direction
E Straight mounting

D Screw lead

02	2 mm
05	5 mm
10	10 mm
20	20 mm

E Stroke length

0050 to 0800	50 mm (In 50 mm increments) 800 mm
--------------	------------------------------------

F Brake
N None

G Mounted motor specification

A	Select the mounted motor specification from the table at right.
B	

H Motor size
A ☐42

I Origin sensor *1

N	None
C	Yes

J Limit sensor *1

N	None
B	Yes

Manufacturer ☐ 42

Oriental Motor Co., Ltd.	A
MinebeaMitsumi Inc.	B
Dyadic Systems Co., Ltd.	B

*Refer to page 519 for the motor model No.

*1 Origin sensor and limit sensor are available as a set. As it is both-or-nothing, select "None" for both.

Specifications

Applicable motor sizes	☐ 42 Stepper motor			
Drive method	Ball screw ø12			
Stroke length mm	50 to 800			
Screw lead mm	2	5	10	20
Max. load capacity kg	Horizontal	30	30	15
	Vertical	10	10	5
Max. speed mm/s	100	250	500	1000
Rated thrust *1	N	854	341	170
Repeatability mm	±0.01			
Lost motion mm	0.1 or less			
Static allowable load N	1168			
Static allowable moment N·m	MP: 103, MY: 103, MR: 144			
Drive system weight kg	0.7			
Other inertia kg·cm ²	0.09			
Coefficient of friction	0.03			
Mechanical efficiency	0.8			
Sliding resistance N	6			
Ball screw length	Stroke + 200			
Operating ambient temperature, humidity	0 to 40°C (no freezing) 35 to 80% RH (no condensation)			
Storage ambient temperature, humidity	-10 to 50°C (no freezing) 35 to 80% RH (no condensation)			
Atmosphere	No corrosive gas, explosive gas, or dust			

*1 The rated thrust and max. load capacity values are the allowable values for the actuator body; the actual thrust and load capacity are limited by the motor used.

Stroke and max. speed

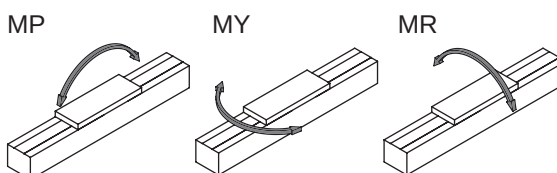
		(mm/s)				
Stroke length	Screw lead	50 to 600	650	700	750	800
	2	100	90	80	70	60
	5	250	225	200	175	150
	10	500	450	400	350	300
	20	1000	900	800	700	600

*Max. speed is when the motor mounted by the customer can output rotation speed of 3000 rpm.
The max. speed is restricted by the stroke. Do not move at speeds beyond the limit.

Allowable overhang length

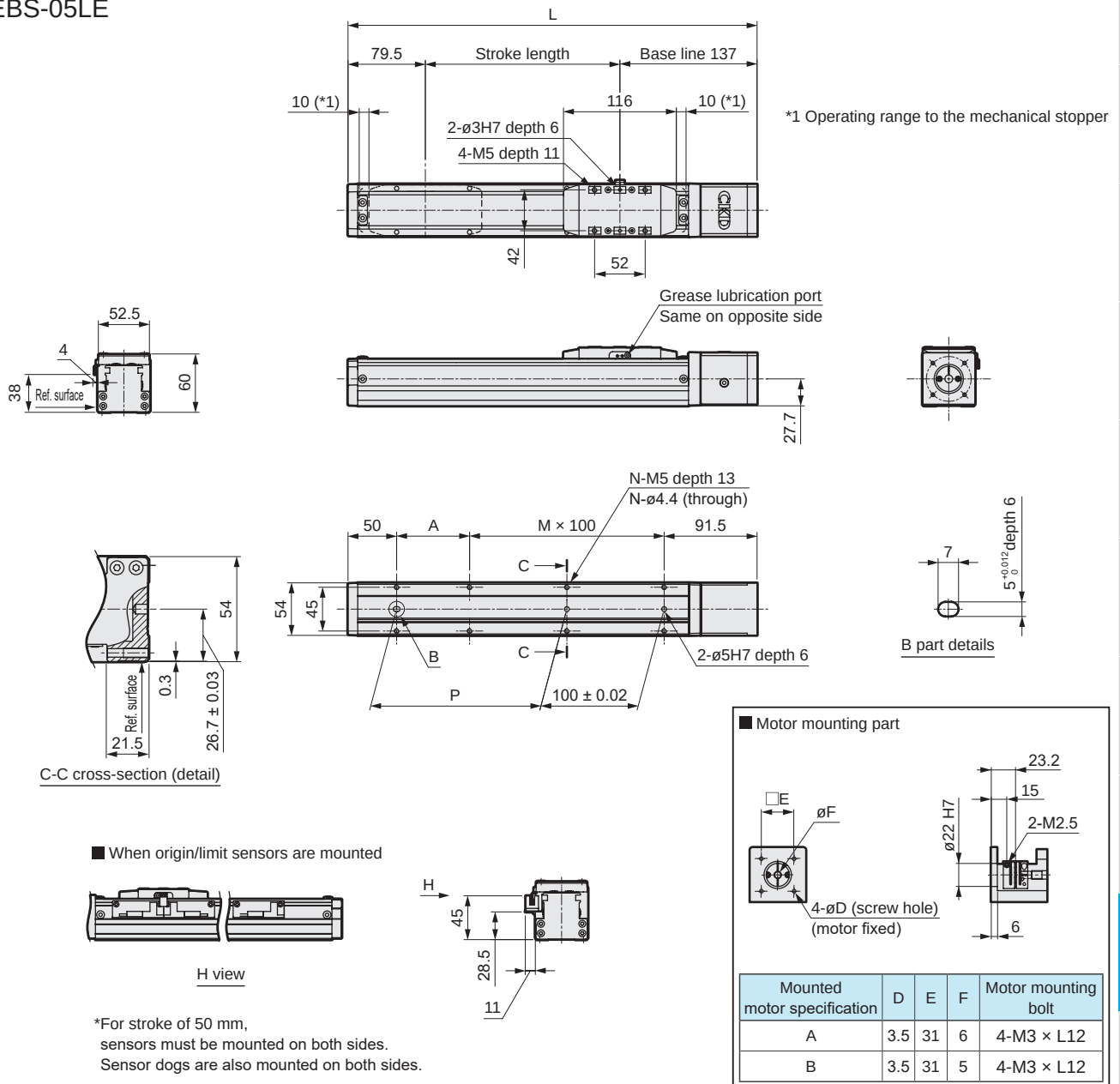
*Refer to page 540 for details.

Moment direction



Dimensions Straight motor mounting

● EBS-05LE



Stroke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800
Stroke length (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	266.5	316.5	366.5	416.5	466.5	516.5	566.5	616.5	666.5	716.5	766.5	816.5	866.5	916.5	966.5	1016.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
Weight (kg)	1.8	1.9	2.1	2.2	2.4	2.5	2.7	2.8	3.0	3.1	3.2	3.4	3.5	3.7	3.8	4.0

List of attachments

[Motor mounting parts]

Mounted motor specification	Coupling	Motor mounting bolt	
		Size	Quantity
A	Assembled at shipment	M3	4
B		M3	4

[Origin sensor, limit sensor]

Manufacturer	Model	Included quantity
OMRON Corporation	EE-SX674	3

*Refer to page 548 for sensor specifications.



Electric actuator (motorless) Slider

EBS-05L*

Motor side mounting (left, right, bottom)

● Stepper motor size: ☐ 42

RoHS

How to order

EBS - 05 L R - 02 0300 N NN - A A N N

A Body size
05 Body width 54 mm

B Motor
L None

C Motor mounting direction
R Right mounting
D Bottom mounting
L Left mounting

D Screw lead
02 2 mm
05 5 mm
10 10 mm
20 20 mm

E Stroke length
0050 50 mm
to 0800 (In 50 mm increments) 800 mm

F Brake
N None

G Mounted motor specification
A Select the mounted motor specification from the table at right.
B

H Motor size
A ☐ 42

I Origin sensor *1
N None
C Yes

J Limit sensor *1
N None
B Yes

Manufacturer		☐ 42
Oriental Motor Co., Ltd.		A
MinebeaMitsumi Inc.		B
Dyadic Systems Co., Ltd.		B

*1 Origin sensor and limit sensor are available as a set. As it is both-or-nothing, select "None" for both.

*Refer to page 519 for the motor model No.

Specifications

Applicable motor sizes	☐ 42 Stepper motor			
Drive method	Ball screw ø12			
Stroke length mm	50 to 800			
Screw lead	2	5	10	20
Max. load capacity kg	Horizontal	30	30	15
	Vertical	10	10	5
Max. speed mm/s	100	250	500	1000
Rated thrust *1 N	854	341	170	85
Repeatability mm	±0.01			
Lost motion mm	0.1 or less			
Static allowable load N	1168			
Static allowable moment N·m	MP: 103, MY: 103, MR: 144			
Drive system weight kg	0.7			
Other inertia kg·cm ²	0.09			
Coefficient of friction	0.03			
Mechanical efficiency	0.8			
Sliding resistance N	6			
Ball screw length	Stroke + 200			
Operating ambient temperature, humidity	0 to 40°C (no freezing) 35 to 80% RH (no condensation)			
Storage ambient temperature, humidity	-10 to 50°C (no freezing) 35 to 80% RH (no condensation)			
Atmosphere	No corrosive gas, explosive gas, or dust			

*1 The rated thrust and max. load capacity values are the allowable values for the actuator body; the actual thrust and load capacity are limited by the motor used.

Stroke and max. speed

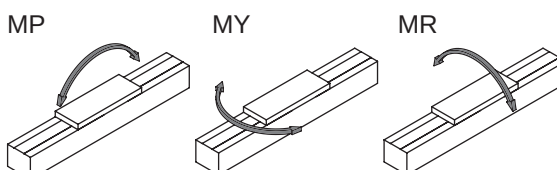
		(mm/s)				
Stroke length	Lead	50 to 600	650	700	750	800
		100	90	80	70	60
	2	100	90	80	70	60
	5	250	225	200	175	150
	10	500	450	400	350	300
	20	1000	900	800	700	600

*Max. speed is when the motor mounted by the customer can output rotation speed of 3000 rpm.
The max. speed is restricted by the stroke. Do not move at speeds beyond the limit.

Allowable overhang length

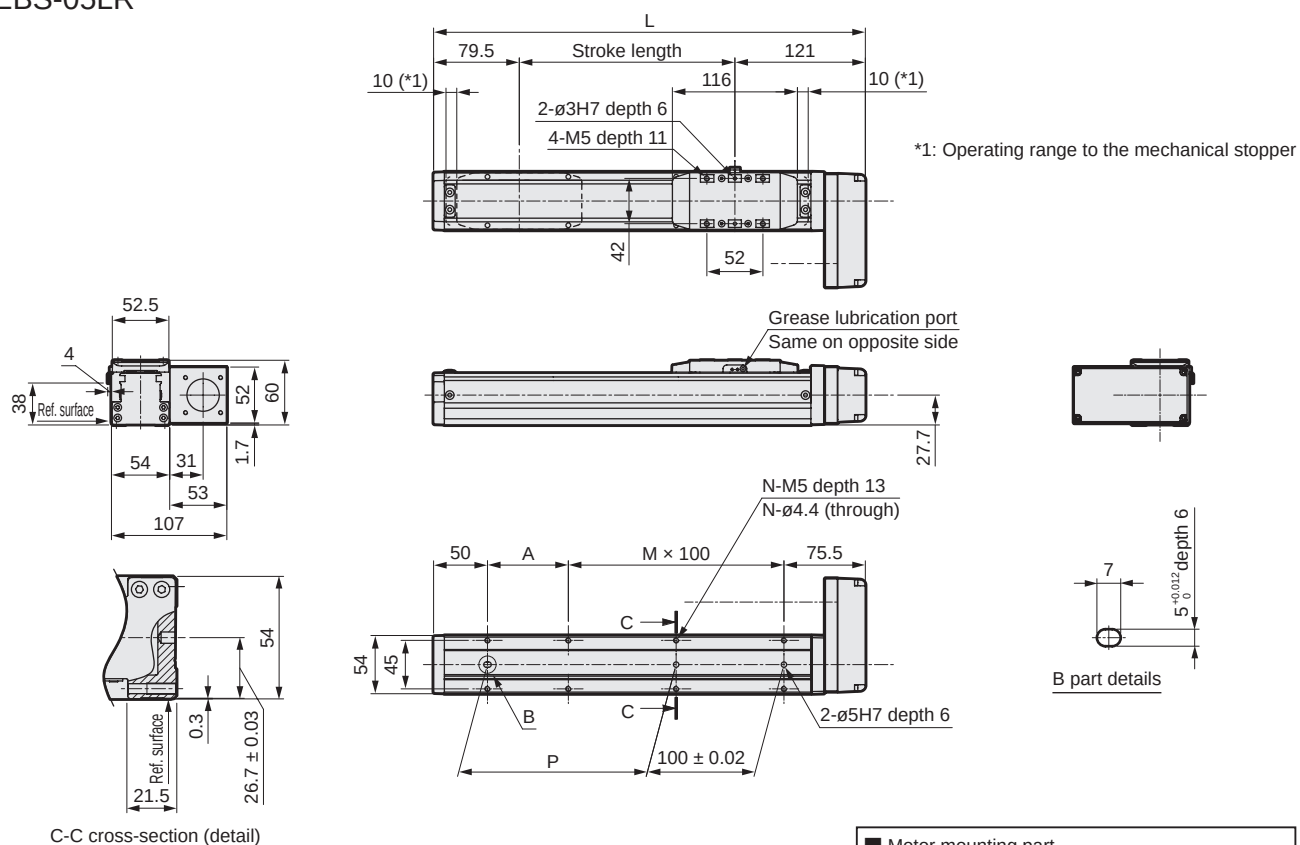
*Refer to page 540 for details.

Moment direction



Dimensions Motor right-side mounting

● EBS-05LR



Stroke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800
Stroke length (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250.5	300.5	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
Weight (kg)	1.8	2.0	2.1	2.2	2.4	2.5	2.7	2.8	3.0	3.1	3.3	3.4	3.5	3.7	3.8	4.0

List of attachments

[Motor mounting]

Mounted motor specification	Timing belt, pulley	Motor mounting bolt	
		Size	Included quantity
A	Included at shipment	M3	4
B		M3	4

[When origin/limit sensors are selected]

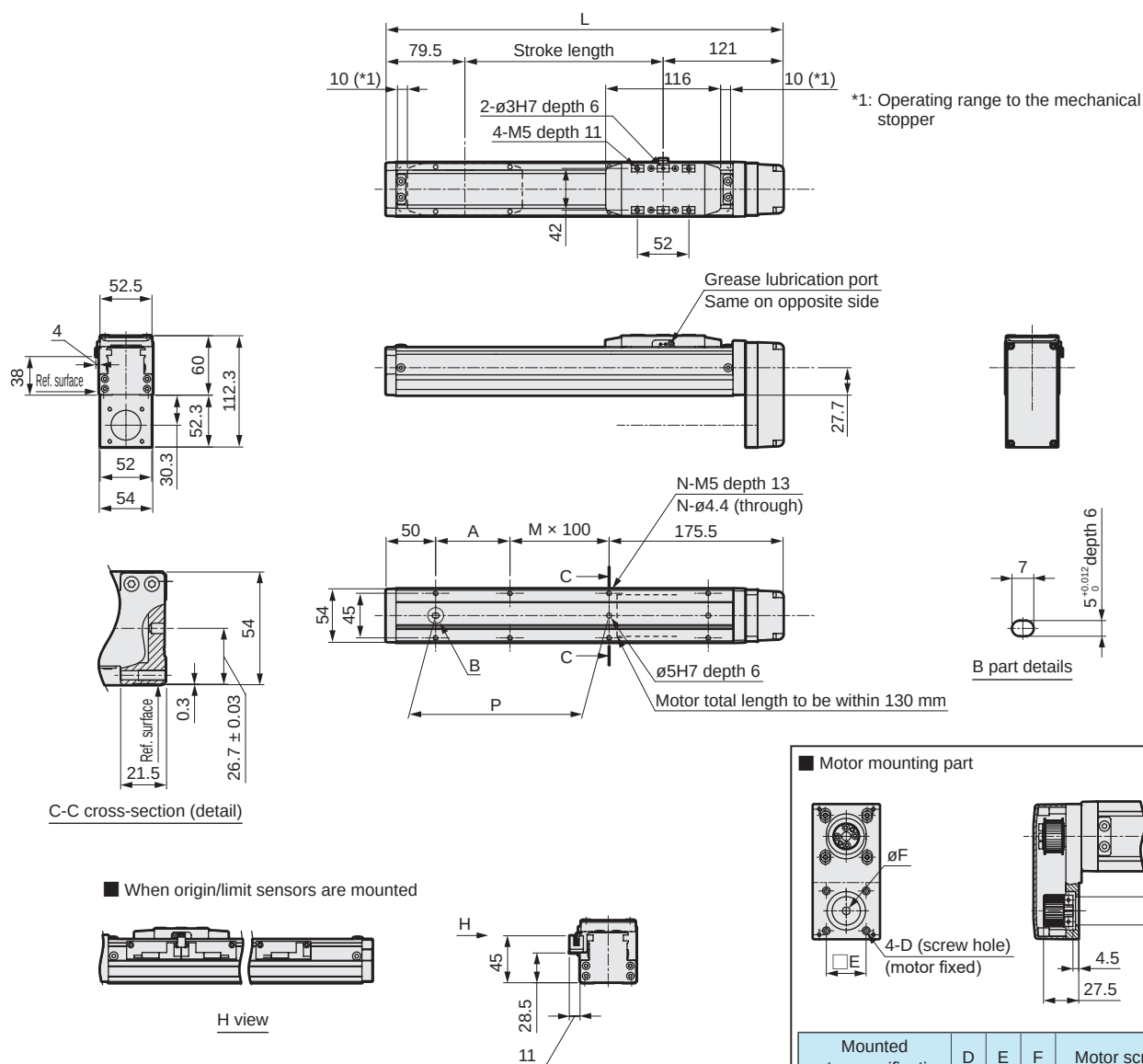
Sensor		
Manufacturer	Model	Included quantity
OMRON Corporation	EE-SX674	3

*Refer to page 548 for sensor specifications.

EBS-05L*

Dimensions Motor bottom mounting

● EBS-05LD



Stroke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800
Stroke length (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250.5	300.5	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
Weight (kg)	1.8	2.0	2.1	2.2	2.4	2.5	2.7	2.8	3.0	3.1	3.3	3.4	3.5	3.7	3.8	4.0

List of attachments

[Motor mounting]

Mounted motor specification	Timing belt, pulley	Motor mounting bolt	
		Size	Included quantity
A	Included at shipment	M3	4
B		M3	4

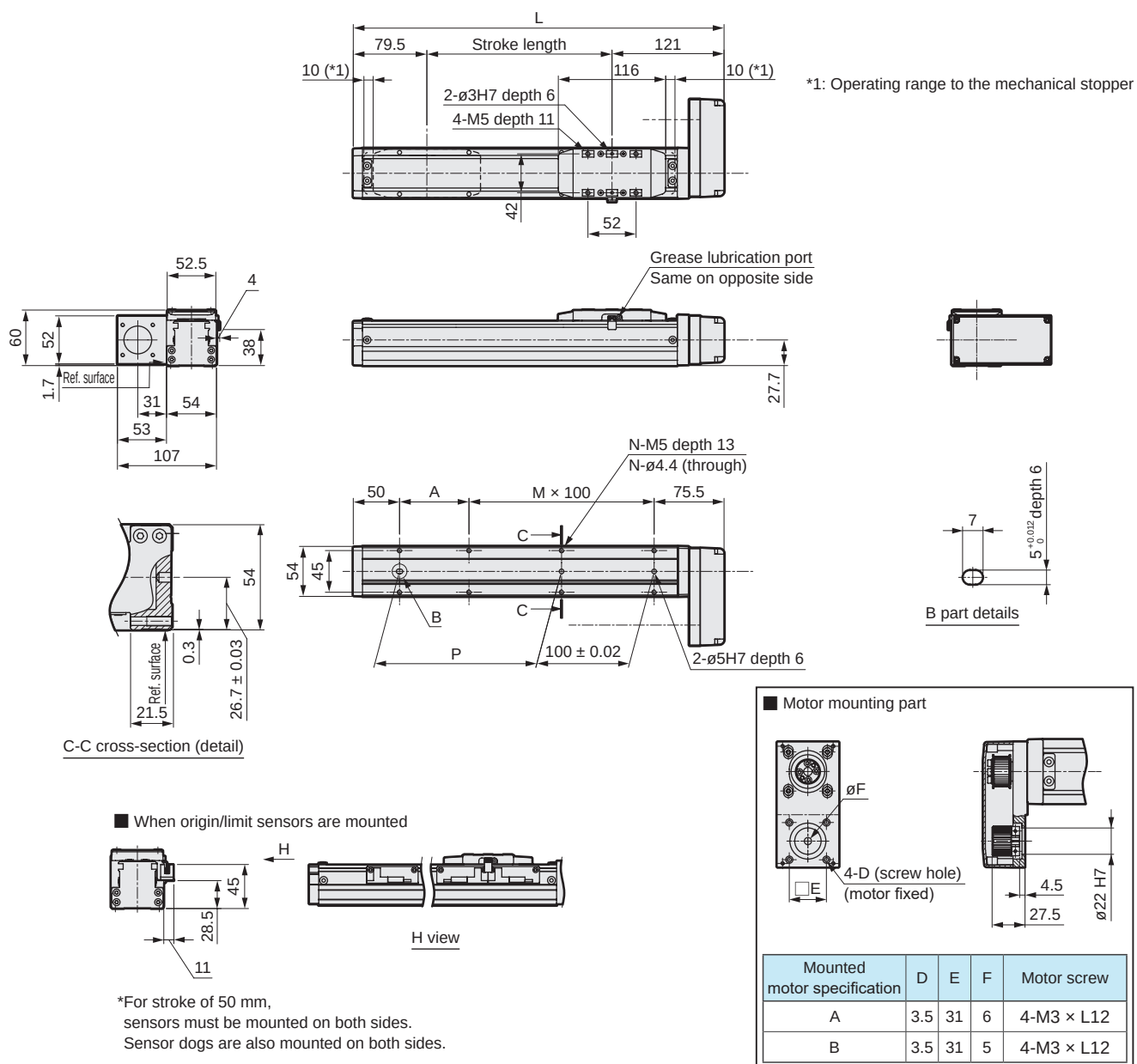
[When origin/limit sensors are selected]

Sensor		
Manufacturer	Model	Included quantity
OMRON Corporation	EE-SX674	3

*Refer to page 548 for sensor specifications.

Dimensions Motor left-side mounting

● EBS-05LL



Stroke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800
Stroke length (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250.5	300.5	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
Weight (kg)	1.8	2.0	2.1	2.2	2.4	2.5	2.7	2.8	3.0	3.1	3.3	3.4	3.5	3.7	3.8	4.0

List of attachments

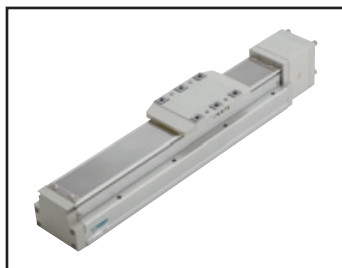
[Motor mounting]

Mounted motor specification	Timing belt, pulley	Motor mounting bolt	
		Size	Included quantity
A	Included at shipment	M3	4
B		M3	4

[When origin/limit sensors are selected]

Sensor		
Manufacturer	Model	Included quantity
OMRON Corporation	EE-SX674	3

*Refer to page 548 for sensor specifications.



Electric actuator (motorless) Slider

EBS-08LE

Straight motor mounting

● Stepper motor size: ☐56, ☐60

RoHS

How to order

EBS - 08 L E - 05 0300 N NN - A B N N

A Body size
08 Body width 82 mm

B Motor
L None

C Motor mounting direction
E Straight mounting

D Screw lead

05	5 mm
10	10 mm
20	20 mm

E Stroke length

0050 to 1100	50 mm (In 50 mm increments) 1100 mm
--------------	-------------------------------------

F Brake
N None

G Mounted motor specification

A	Select the mounted motor specification from the table at right.
B	
C	

H Motor size

B	☐ 56
C	☐ 60

I Origin sensor *1

N	None
C	Yes

J Limit sensor *1

N	None
B	Yes

Manufacturer	☐ 56	☐ 60
Oriental Motor Co., Ltd.	-	A
MinebeaMitsumi Inc.	B	-
Dyadic Systems Co., Ltd.	C	-

*Refer to page 519 for the motor model No.

*1 Origin sensor and limit sensor are available as a set. As it is both-or-nothing, select "None" for both.

Specifications

Applicable motor sizes	☐ 56, ☐ 60 stepper motor		
Drive method	Ball screw ϕ 16		
Stroke length mm	50 to 1100		
Screw lead mm	5	10	20
Max. load capacity kg *1	Horizontal 50 Vertical 15	30 8	12 2.5
Max. speed mm/s	250	500	1000
Rated thrust *1 N	683	341	174
Repeatability mm	± 0.01		
Lost motion mm	0.1 or less		
Static allowable load N	2781		
Static allowable moment N·m	MP: 203, MY: 203, MR: 336		
Drive system weight kg	1.6		
Other inertia kg·cm ²	0.24		
Coefficient of friction	0.03		
Mechanical efficiency	0.8		
Sliding resistance N	20		
Ball screw length	Stroke + 200		
Operating ambient temperature, humidity	0 to 40°C (no freezing) 35 to 80% RH (no condensation)		
Storage ambient temperature, humidity	-10 to 50°C (no freezing) 35 to 80% RH (no condensation)		
Atmosphere	No corrosive gas, explosive gas, or dust		

*1 The rated thrust and max. load capacity values are the allowable values for the actuator body; the actual thrust and load capacity are limited by the motor used.

Stroke and max. speed

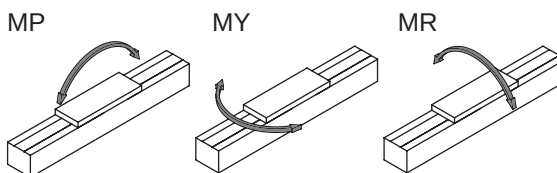
		(mm/s)							
Stroke length	Screw lead	50 to 700	750	800	850	900	950	1000	1050 1100
5	5	250	225	200	175	150	125	100	75 50
10	10	500	450	400	350	300	250	200	150 100
20	20	1000	900	800	700	600	500	400	300 200

*Max. speed is when the motor mounted by the customer can output rotation speed of 3000 rpm.
The max. speed is restricted by the stroke. Do not move at speeds beyond the limit.

Allowable overhang length

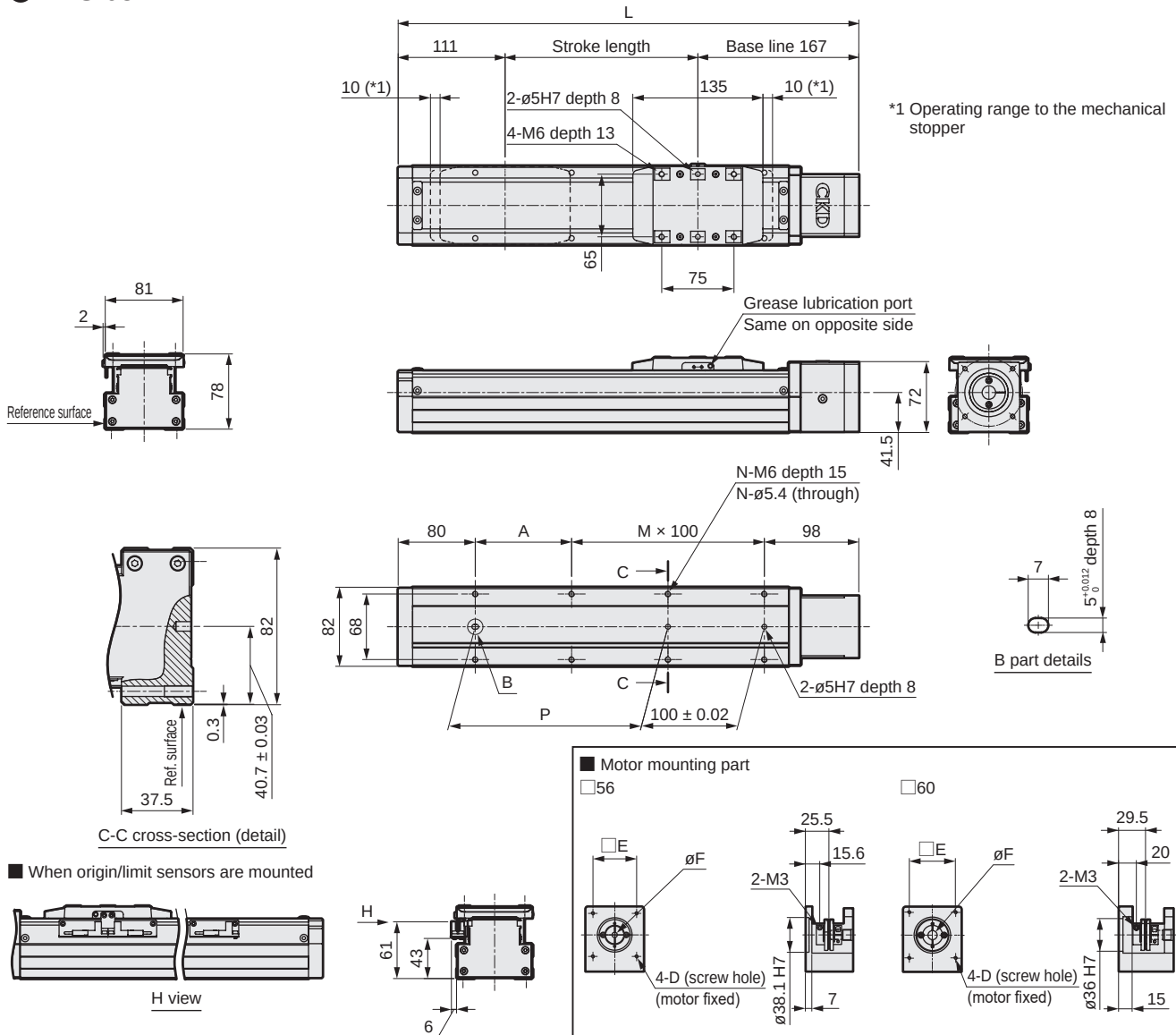
*Refer to page 540 for details.

Moment direction



Dimensions Straight motor mounting

● EBS-08LE



*For stroke of 50 mm,
sensors must be mounted on both sides.
Sensor dogs are also mounted on both sides.

Stroke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800	0850	0900	0950	1000	1050	1100
Stroke length (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
Weight (kg)	4.3	4.6	4.9	5.2	5.6	5.9	6.2	6.6	6.9	7.2	7.5	7.9	8.2	8.5	8.8	9.2	9.5	9.8	10.2	10.5	10.8	11.1

List of attachments

[Motor mounting parts]

Mounted motor specification	Coupling	Motor mounting bolt	
		Size	Quantity
A	Assembled at shipment	M4	4
B		M4	4
C		M4	4

[Origin sensor, limit sensor]

Manufacturer	Model	Included quantity
OMRON Corporation	EE-SX674	3

*Refer to page 548 for sensor specifications.



Electric actuator (motorless) Slider

EBS-08L*

Motor side mounting (left, right, bottom)

● Stepper motor size: □56, □60

RoHS

How to order

EBS - 08 L E - 05 0300 N NN - A B N N

A Body size
08 Body width 82 mm

B Motor
L None

C Motor mounting direction
R Right mounting
D Bottom mounting
L Left mounting

D Screw lead
05 5 mm
10 10 mm
20 20 mm

E Stroke length
0050 50 mm
to 1100 (In 50 mm increments) 1100 mm

F Brake
N None

G Mounted motor specification
A Select the mounted motor specification from the table at right.
B
C

H Motor size
B □56
C □60

I Origin sensor *1
N None
C Yes

J Limit sensor *1
N None
B Yes

Manufacturer	□56	□60
Oriental Motor Co., Ltd.	-	A
MinebeaMitsumi Inc.	B	-
Dyadic Systems Co., Ltd.	C	-

*Refer to page 519 for the motor model No.

*1 Origin sensor and limit sensor are available as a set. As it is both-or-nothing, select "None" for both.

Specifications

Applicable motor sizes	□56, □60 stepper motor		
Drive method	Ball screw ø16		
Stroke length mm	50 to 1100		
Screw lead	5	10	20
Max. load capacity kg	Horizontal 50 Vertical 15	30 8	12 2.5
Max. speed mm/s	250	500	1000
Rated thrust N	683	341	174
Repeatability mm	±0.01		
Lost motion mm	0.1 or less		
Static allowable load N	2781		
Static allowable moment N·m	MP: 203, MY: 203, MR: 336		
Drive system weight kg	1.6		
Other inertia kg·cm ²	0.52		
Coefficient of friction	0.03		
Mechanical efficiency	0.8		
Sliding resistance N	20		
Ball screw length	Stroke + 200		
Operating ambient temperature, humidity	0 to 40°C (no freezing) 35 to 80% RH (no condensation)		
Storage ambient temperature, humidity	-10 to 50°C (no freezing) 35 to 80% RH (no condensation)		
Atmosphere	No corrosive gas, explosive gas, or dust		

*1 The rated thrust and max. load capacity values are the allowable values for the actuator body; the actual thrust and load capacity are limited by the motor used.

Stroke and max. speed

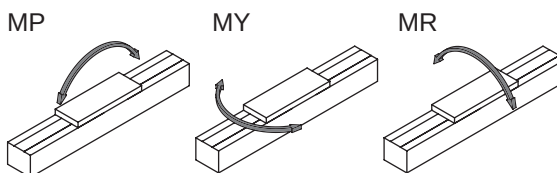
		(mm/s)							
Stroke length	Lead	50 to 700	750	800	850	900	950	1000	1050 1100
		250	225	200	175	150	125	100	75 50
10		500	450	400	350	300	250	200	150 100
20		1000	900	800	700	600	500	400	300 200

*Max. speed is when the motor mounted by the customer can output rotation speed of 3000 rpm.
The max. speed is restricted by the stroke. Do not move at speeds beyond the limit.

Allowable overhang length

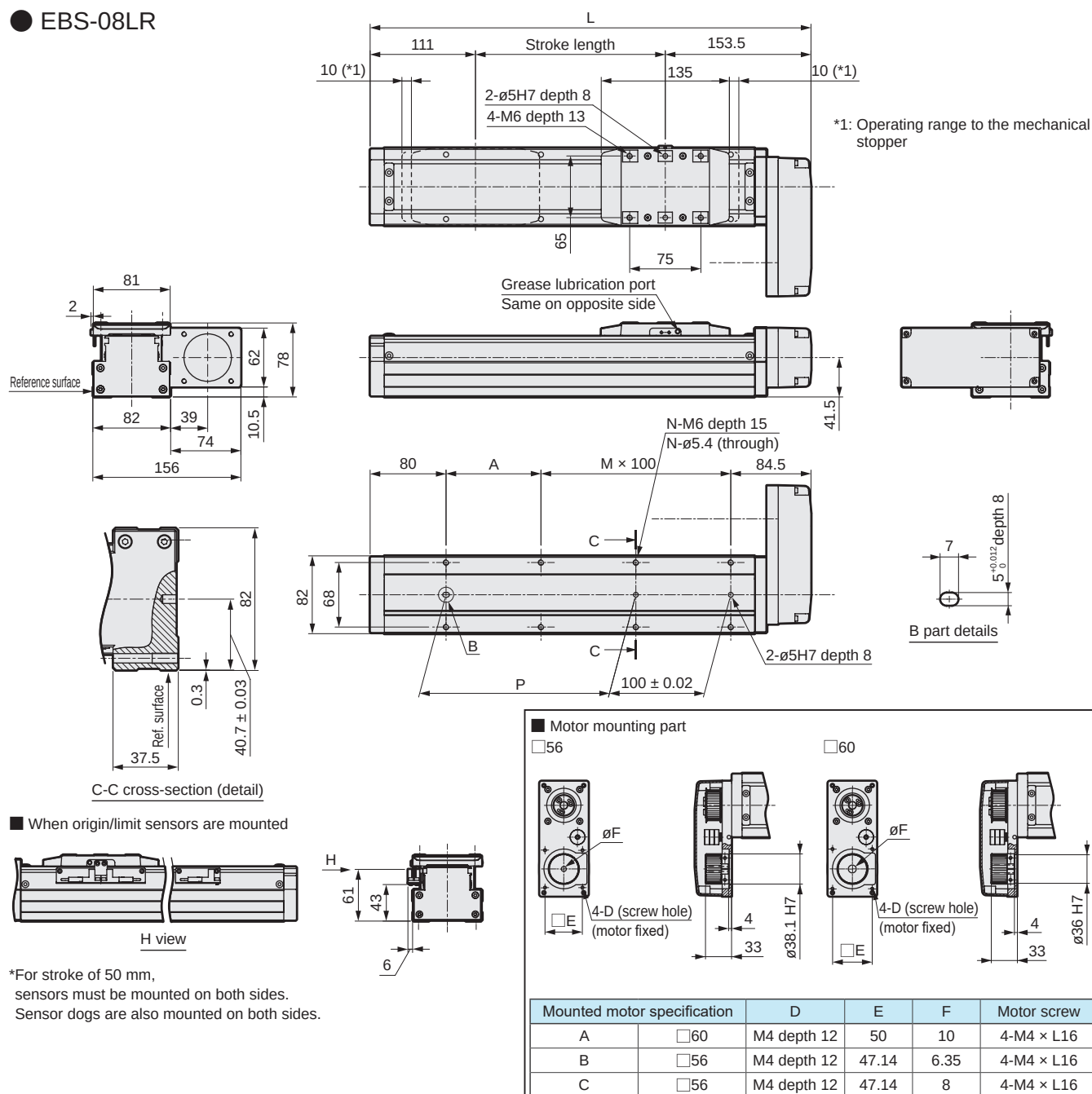
*Refer to page 540 for details.

Moment direction



Dimensions Motor right-side mounting

● EBS-08LR



Stroke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800	0850	0900	0950	1000	1050	1100
Stroke length (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
Weight (kg)	4.5	4.8	5.1	5.4	5.8	6.1	6.4	6.8	7.1	7.4	7.7	8.1	8.4	8.7	9.0	9.4	9.7	10.0	10.4	10.7	11.0	11.3

List of attachments

[Motor mounting]

Mounted motor specification	Timing belt, pulley	Motor mounting bolt	
		Size	Included quantity
A	Included at shipment	M4	4
B		M4	4
C		M4	4

[When origin/limit sensors are selected]

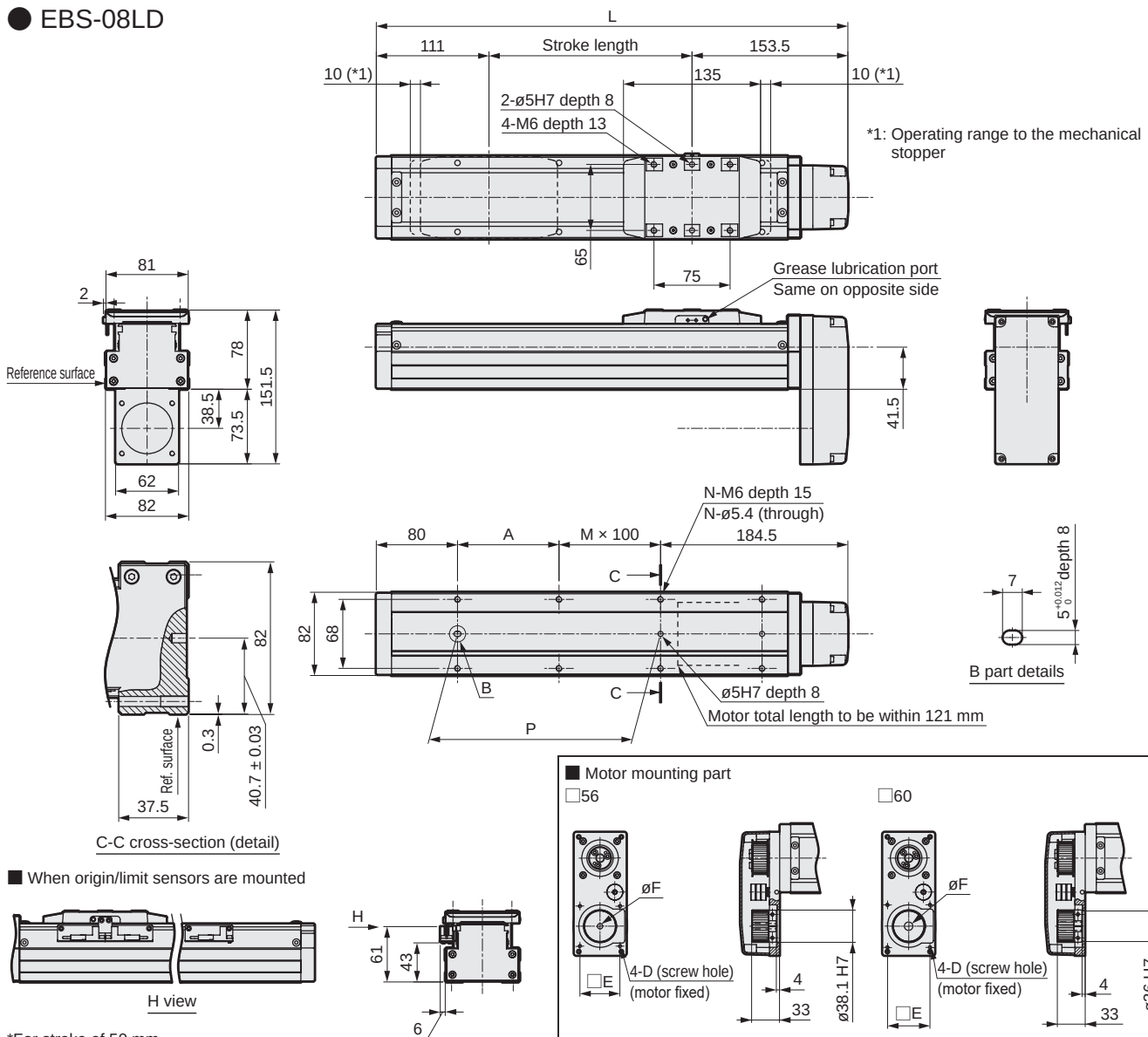
Sensor		
Manufacturer	Model	Included quantity
OMRON Corporation	EE-SX674	3

*Refer to page 548 for sensor specifications.

EBS-08L*

Dimensions Motor bottom mounting

● EBS-08LD



*For stroke of 50 mm,
sensors must be mounted on both sides.
Sensor dogs are also mounted on both sides.

Stroke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800	0850	0900	0950	1000	1050	1100
Stroke length (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
Weight (kg)	4.5	4.8	5.1	5.4	5.8	6.1	6.4	6.8	7.1	7.4	7.7	8.1	8.4	8.7	9.0	9.4	9.7	10.0	10.4	10.7	11.0	11.3

List of attachments

[Motor mounting]

Mounted motor specification	Timing belt, pulley	Motor mounting bolt	
		Size	Included quantity
A	Included at shipment	M4	4
B		M4	4
C		M4	4

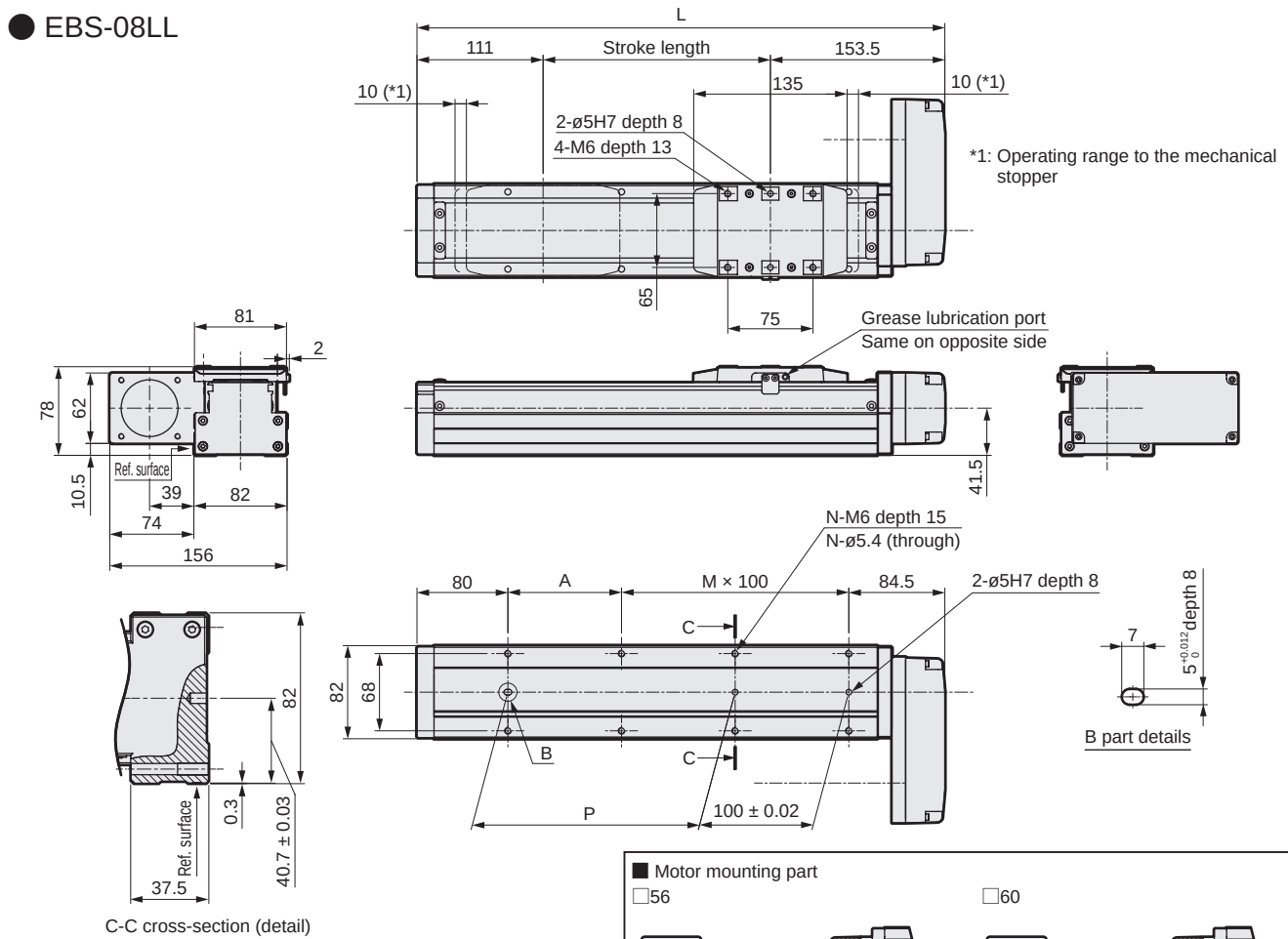
[When origin/limit sensors are selected]

Sensor		
Manufacturer	Model	Included quantity
OMRON Corporation	EE-SX674	3

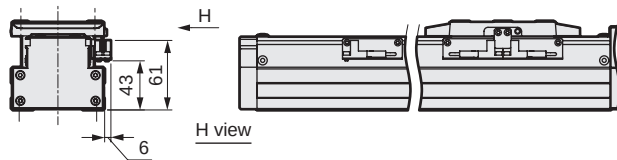
*Refer to page 548 for sensor specifications.

Dimensions Motor left-side mounting

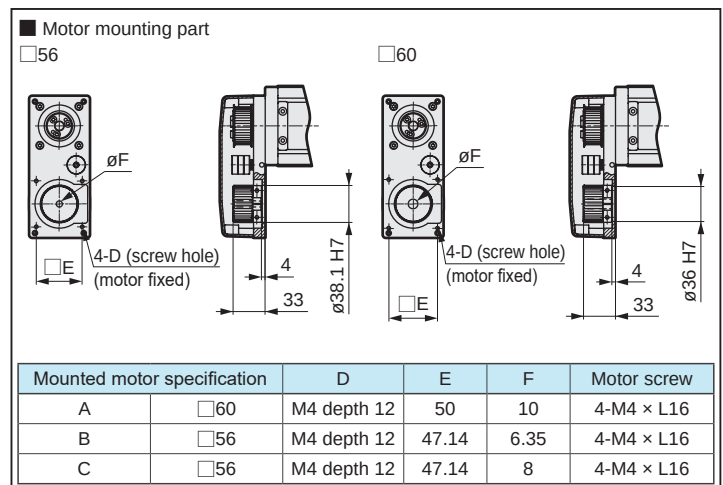
● EBS-08LL



■ When origin/limit sensors are mounted



*For stroke of 50 mm,
sensors must be mounted on both sides.
Sensor dogs are also mounted on both sides.



Stroke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800	0850	0900	0950	1000	1050	1100
Stroke length (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
Weight (kg)	4.5	4.8	5.1	5.4	5.8	6.1	6.4	6.8	7.1	7.4	7.7	8.1	8.4	8.7	9.0	9.4	9.7	10.0	10.4	10.7	11.0	11.3

List of attachments

[Motor mounting]

Mounted motor specification	Timing belt, pulley	Motor mounting bolt	
		Size	Included quantity
A	Included at shipment	M4	4
B		M4	4
C		M4	4

[When origin/limit sensors are selected]

Sensor		
Manufacturer	Model	Included quantity
OMRON Corporation	EE-SX674	3

*Refer to page 548 for sensor specifications.