



Electric actuator Slider

EBS-04GE-P4

Straight motor mounting

☐ 35 stepper motor



How to order

EBS - **04** **G** **E** - **06** **0300** **N** **B** **N - C** **S03** - **U** **C** - **P4**

A Body size

04 Body width 44mm

B Applicable controller *1

G ECG

C Motor mounting direction

E Straight mounting

D Screw lead

06 6 mm

12 12 mm

E Stroke

0050 to 0500 50 mm
(In 50 mm increments)
500 mm

F Brake *2

N None

B Yes

G Encoder

B Battery-less absolute encoder

C Incremental encoder

I Anti-rust treatment*4

N None

U Yes

J Fitting

N None

C Yes

H Relay cable *3

N00 None

S01 Fixing cable 1 m

S03 Fixing cable 3 m

S05 Fixing cable 5 m

S10 Fixing cable 10 m

R 01 Movable cable 1 m

R 03 Movable cable 3 m

R 05 Movable cable 5 m

R 10 Movable cable 10 m

*1 Select the controller from page 85.

*2 For vertical use, select "Yes".

*3 Refer to page 96 for relay cable dimensions.

*4 Positioning pin holes may not be surface treated.

Specifications

Motor	☐ 35 stepper motor	
Encoder type	Battery-less absolute encoder Incremental encoder	
Drive method	Ball screw $\varnothing 10$	
Stroke	mm	50 to 500
Screw lead	mm	6 12
Max. workload kg *1	Horizontal	20.0 15.0
	Vertical	9.2 3.3
Operation speed range *2	mm/s	7 to 260 15 to 400
Maximum pushing force	N	155 77
Pressing operation speed range	mm/s	5 to 20 5 to 20
Repeatability	mm	± 0.01
Lost motion	mm	0.1 or less
Static allowable moment	N·m	MP:62 MY:62 MR:92
Motor power supply voltage	24 VDC $\pm 10\%$	
Motor section max. instantaneous current	A	2.4
Brake	Model, power supply voltage	Non-excitation operation, 24 VDC $\pm 10\%$
	Power consumption W	6.1
	Holding force N	140 70
Insulation resistance	10 M Ω , 500 VDC	
Withstand voltage	500 VAC for 1 minute	
Operating ambient temperature	10 to 40 °C (no freezing)	
Storage ambient temperature	-10 to 50 °C (no freezing)	
Atmosphere	No corrosive gas, explosive gas, or dust	
Degree of protection	IP40	

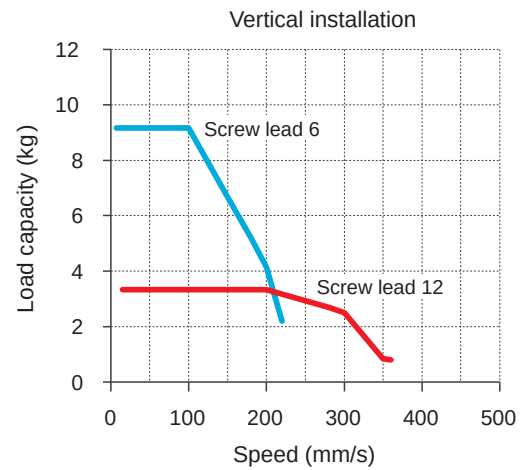
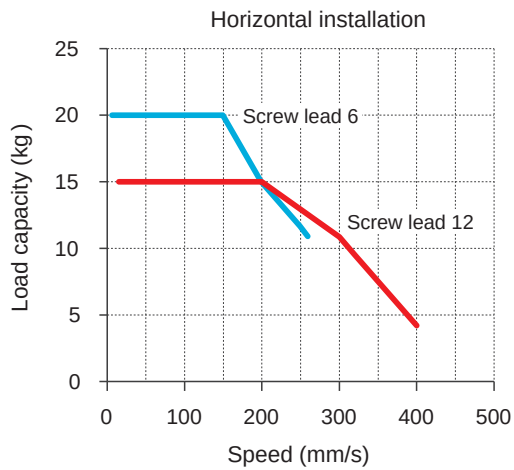
*1 Load capacity varies according to acceleration/deceleration and speed. Refer to pages 40 and 41 for details.

*2 The maximum speed may decrease depending on the conditions.

Stroke and max. speed

Screw lead	(mm/s)
	Stroke 50 to 500
6	260
12	400

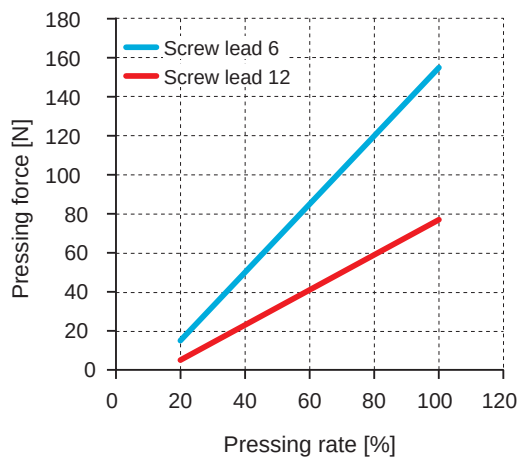
Speed and load capacity



* Acceleration/deceleration 0.3G.

* Refer to pages 40 and 41 for details.

Pressing force



*The above pressing force is a reference value. Variation may occur according to conditions such as pressing speed.

EBS-P4
(With motor)

EBR-P4
(With motor)

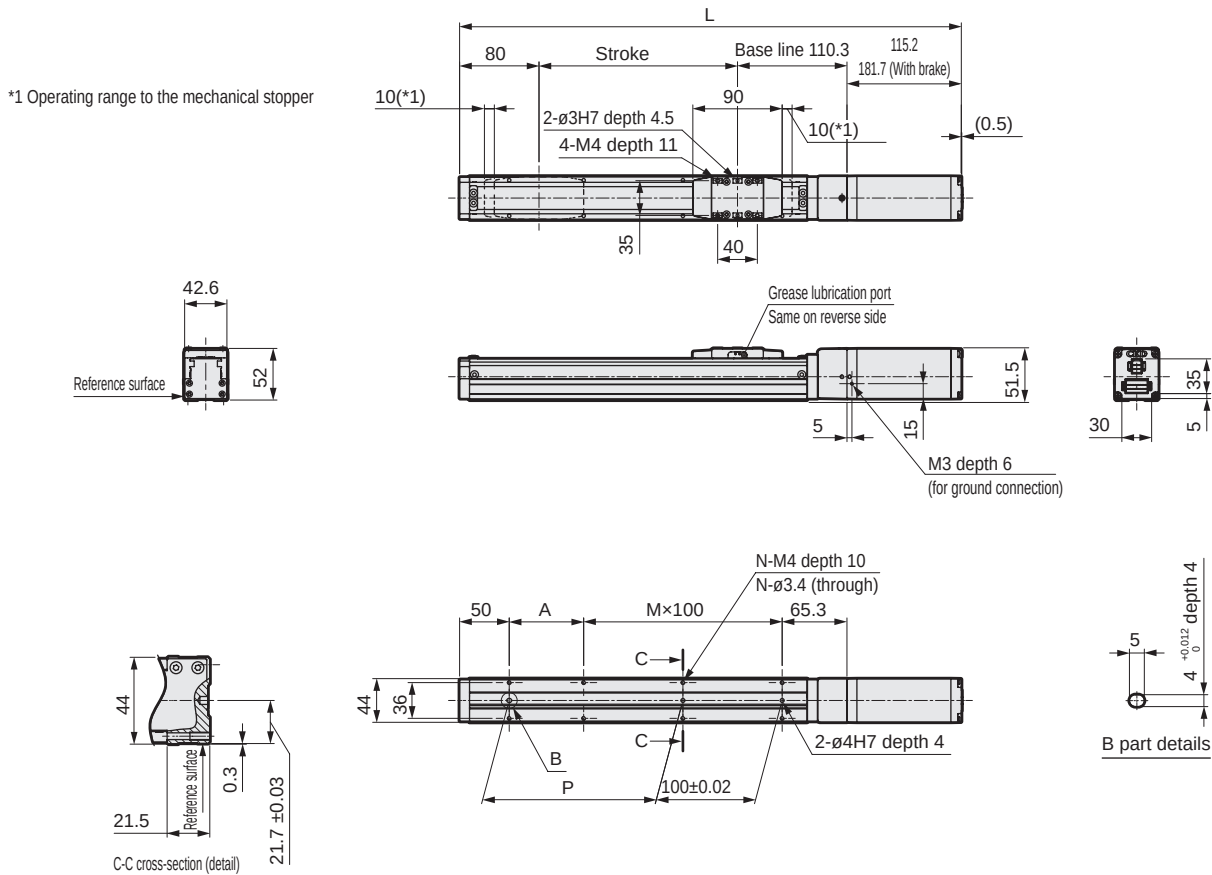
ECC-A
(Controller)

Safety
precautions

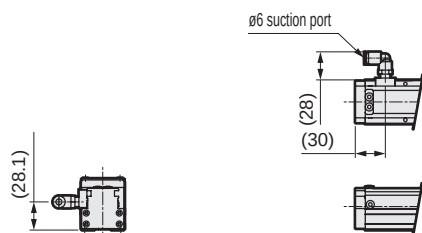
EBS-04GE-P4

Dimensions Straight motor mounting

● EBS-04GE-P4



● EBS-04GE-*-*-*C-P4



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	Without brake	355.5	405.5	455.5	505.5	555.5	605.5	655.5	705.5	755.5	805.5
	With brake	422	472	522	572	622	672	722	772	822	872
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)	Without brake	1.5	1.6	1.8	1.9	2.0	2.2	2.3	2.4	2.6	2.7
	With brake	2.0	2.1	2.3	2.4	2.5	2.7	2.8	2.9	3.1	3.2

* The suction port fitting (ZW-L6-6-P4) is an attachment.

* Keep the air intake amount from the intake port at 30.0Nl/min or less.

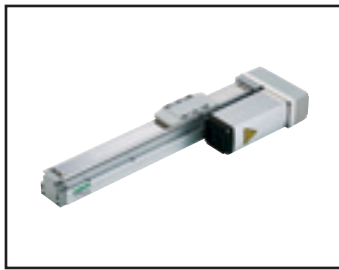
Notes

EBS-P4
(With motor)

EBR-P4
(With motor)

ECC-A
(Controller)

Safety
precautions



Electric actuator Slider

EBS-04G*-P4

Motor side mounting (left, right, bottom)

☐ 35 stepper motor



How to order

EBS - 04 G R - 06 0300 N B N - C S03 - U C - P4

A Body size
04 Body width 44mm

B Applicable controller *1
G ECG

C Motor mounting direction *2*3
R Right mounting
D Bottom mounting
L Left mounting

D Screw lead
06 6 mm
12 12 mm

E Stroke *2*3
0050 50 mm
to 0500 (In 50 mm increments)
500 mm

F Brake *4
N None
B Yes

G Encoder
B Battery-less absolute encoder
C Incremental encoder

H Relay cable *5
N00 None
S01 Fixing cable 1 m
S03 Fixing cable 3 m
S05 Fixing cable 5 m
S10 Fixing cable 10 m
R 01 Movable cable 1 m
R 03 Movable cable 3 m
R 05 Movable cable 5 m
R 10 Movable cable 10 m

I Anti-rust treatment*6
N None
U Yes

J Fitting *3
N None
C Yes

*1 Select the controller from page 85.

*2 When selecting the motor mounting direction "D", the stroke length is "0250 (250 mm)" to "0500(500mm)" is the selection.

*3 For the motor mounting direction "L" and "C" with fittings, 0050 (50 mm stroke length) cannot be selected.

*4 When using vertically, select "Yes".

*5 Refer to page 96 for relay cable dimensions.

*6 Positioning pin holes may not be surface treated.

Specifications

Motor	☐ 35 stepper motor	
Encoder type	Battery-less absolute encoder Incremental encoder	
Drive method	Ball screw ϕ 10	
Stroke	mm	50 to 500
Screw lead	mm	6 12
Max. workload kg *1	Horizontal	20.0 11.7
	Vertical	9.2 3.3
Operation speed range *2	mm/s	7 to 200 15 to 320
Maximum pushing force	N	155 77
Pressing operation speed range	mm/s	5 to 20 5 to 20
Repeatability	mm	± 0.01
Lost motion	mm	0.1 or less
Static allowable moment	N·m	MP:62 MY:62 MR:92
Motor power supply voltage	24 VDC $\pm 10\%$	
Motor section max. instantaneous current	A	2.4
Brake	Model, power supply voltage	Non-excitation operation, 24 VDC $\pm 10\%$
	Power consumption W	6.1
	Holding force N	140 70
Insulation resistance	10 M Ω , 500 VDC	
Withstand voltage	500 VAC for 1 minute	
Operating ambient temperature	10 to 40 °C (no freezing)	
Storage ambient temperature	-10 to 50 °C (no freezing)	
Atmosphere	No corrosive gas, explosive gas, or dust	
Degree of protection	IP40	

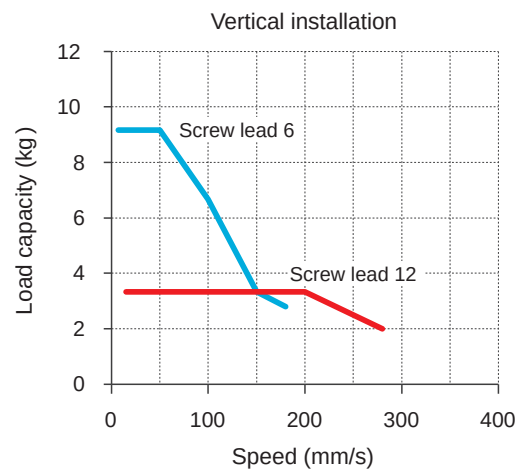
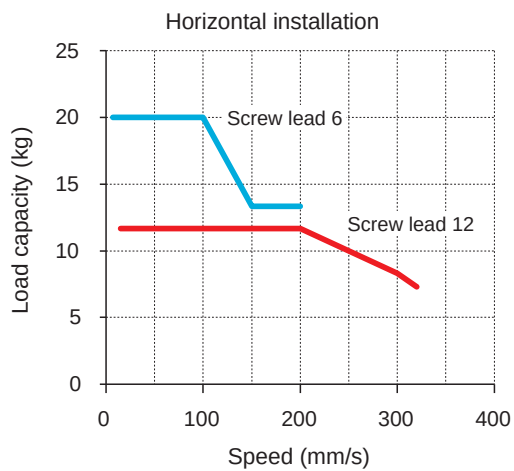
*1 Load capacity varies according to acceleration/deceleration and speed. Refer to pages 40 and 41 for details.

*2 The maximum speed may decrease depending on the conditions.

Stroke and max. speed

Screw lead	(mm/s)
	Stroke
6	50 to 500
12	200

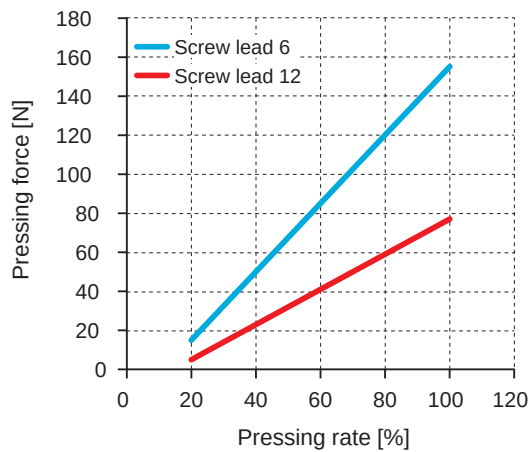
Speed and load capacity



* Acceleration/deceleration 0.3G.

* Refer to pages 40 and 41 for details.

Pressing force



*The above pressing force is a reference value. Variations may occur according to conditions such as pressing speed.

EBS-P4
(With motor)

EBR-P4
(With motor)

ECC-A
(Controller)

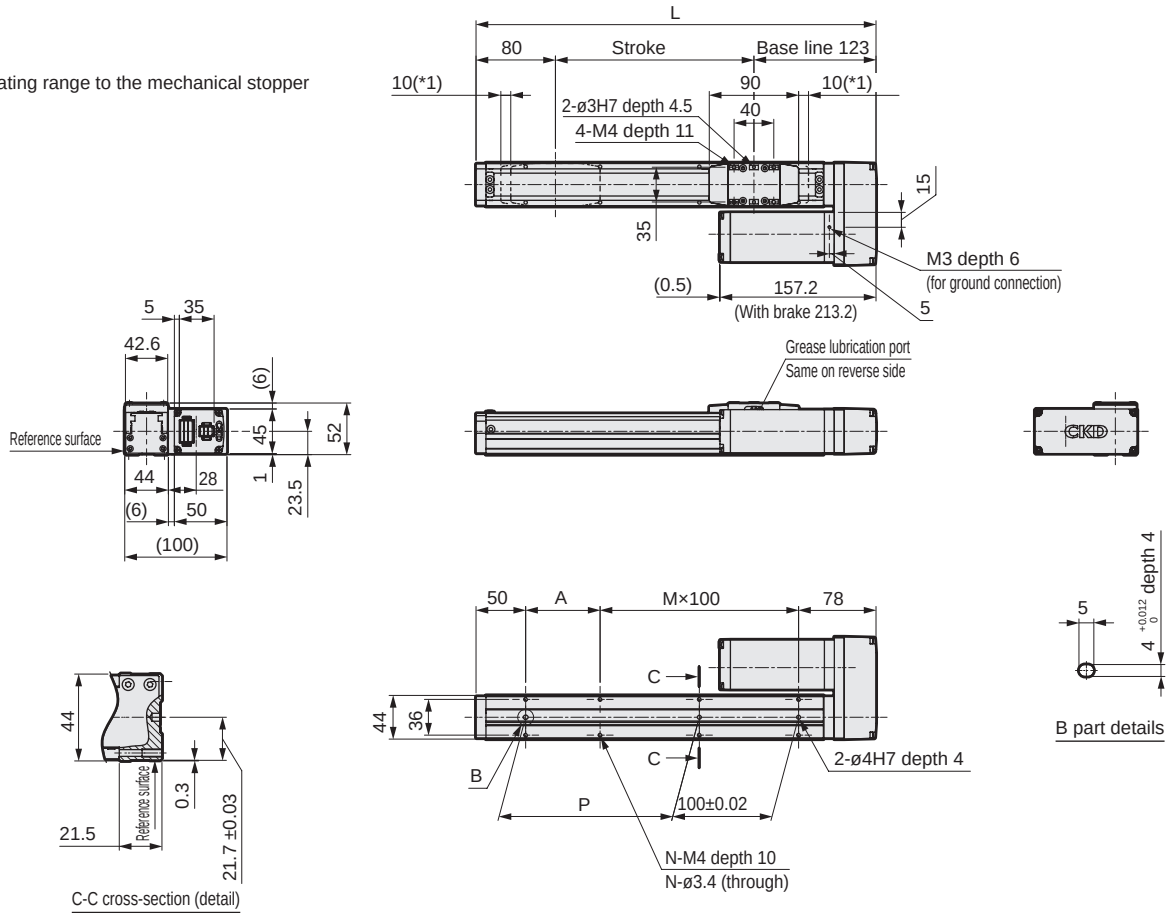
Safety
precautions

EBS-04G*-P4

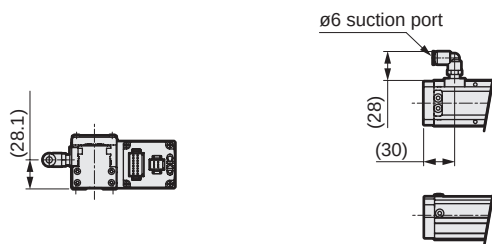
Dimensions Right motor mounting

● EBS-04GR-P4

*1 Operating range to the mechanical stopper



● EBS-04GR-*-*C-P4



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	253	303	353	403	453	503	553	603	653	703
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)	Without brake	1.7	1.9	2.0	2.2	2.4	2.6	2.7	2.9	3.1
	With brake	2.2	2.4	2.5	2.7	2.9	3.1	3.2	3.4	3.6

* The suction port fitting (ZW-L6-6-P4) is an attachment.

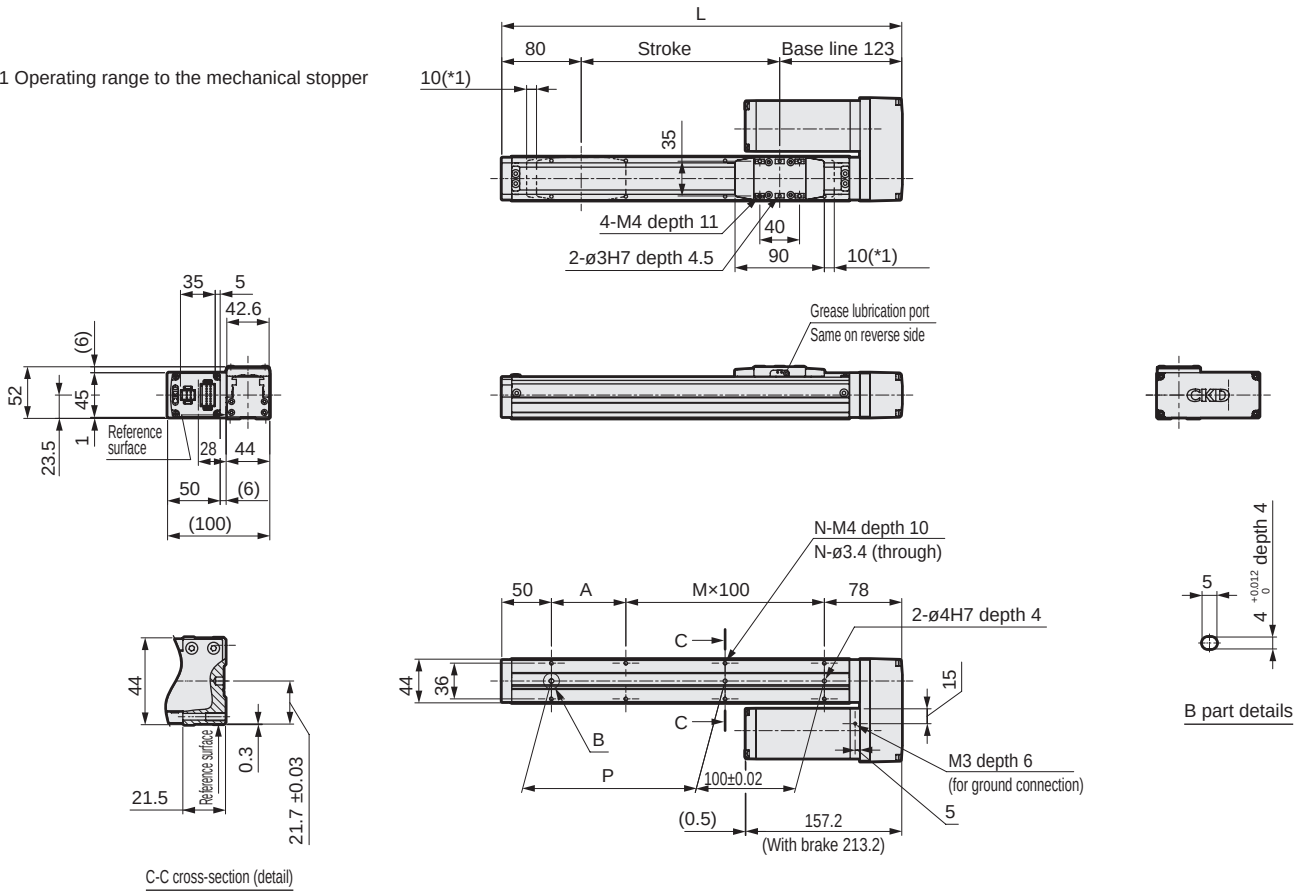
* Keep the air intake amount from the intake port at 30.0Nl/min or less.

EBS-04G*-P4

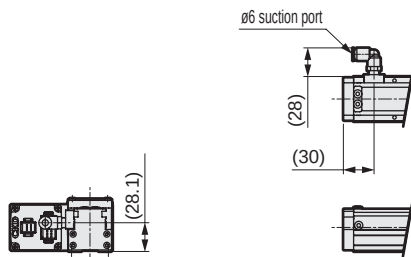
Dimensions Left motor mounting

● EBS-04GL-P4

*1 Operating range to the mechanical stopper



● EBS-04GL-**-**C-P4



Stroke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500
Stroke length (mm)	50 (*2)	100	150	200	250	300	350	400	450	500
L	253	303	353	403	453	503	553	603	653	703
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)	Without brake	1.7	1.9	2.0	2.2	2.4	2.6	2.7	2.9	3.1
	With brake	2.2	2.4	2.5	2.7	2.9	3.1	3.2	3.4	3.6

* The suction port fitting (ZW-L6-6-P4) is an attachment.

* Keep the air intake amount from the intake port at 30.0Nl/min or less.

*2: 50 mm stroke length cannot be selected for types with fittings.

Notes

EBS-P4 (With motor)	EBR-P4 (With motor)	ECC-A (Controller)	Safety precautions
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Electric actuator Slider

EBS-05GE-P4

Straight motor mounting

□42 Stepper motor



How to order

EBS - **05** **G** **E** - **05** **0300** **N** **B** **N - C** **S03** - **U** **C** - **P4**

A Body size
05 Body width 54mm

B Applicable controller *1
G ECG

C Motor mounting direction
E Straight mounting

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

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

F Brake *2
N None
B Yes

G Encoder
B Battery-less absolute encoder
C Incremental encoder

I Anti-rust treatment*4
N None
U Yes

J Fitting
N None
C Yes

H Relay cable *3
N00 None
S01 Fixing cable 1 m
S03 Fixing cable 3 m
S05 Fixing cable 5 m
S10 Fixing cable 10 m
R 01 Movable cable 1 m
R 03 Movable cable 3 m
R 05 Movable cable 5 m
R 10 Movable cable 10 m

*1 Select the controller from page 85.

*2 When using vertically "Yes".

*3 Refer to page 96 for relay cable dimensions.

*4 Positioning pin holes may not be surface treated.

Specifications

Motor	□42 Stepper motor			
Encoder type	Battery-less absolute encoder Incremental encoder			
Drive method	Ball screw ø12			
Stroke mm	50 to 800			
Screw lead mm	2	5	10	20
Max. workload kg *1	Horizontal	45.0	40.0	27.5
	Vertical	18.3	14.0	7.0
Operation speed range *2 mm/s	2 to 100	6 to 230	12 to 400	25 to 680
Maximum pushing force N	550	220	110	55
Pressing operation speed range mm/s	5 to 20	5 to 20	5 to 20	5 to 20
Repeatability mm	±0.01			
Lost motion mm	0.1 or less			
Static allowable moment N·m	MP:103 MY:103 MR:144			
Motor power supply voltage	24 VDC ±10%			
Motor section max. instantaneous current A	2.7			
Brake	Model, power supply voltage	Non-excitation operation, 24 VDC ±10%		
	Power consumption W	6.1		
	Holding force N	420	168	84
Insulation resistance	10 MΩ, 500 VDC			
Withstand voltage	500 VAC for 1 minute			
Operating ambient temperature	10 to 40 °C (no freezing)			
Storage ambient temperature	-10 to 50°C (no freezing)			
Atmosphere	No corrosive gas, explosive gas, or dust			
Degree of protection	IP40			

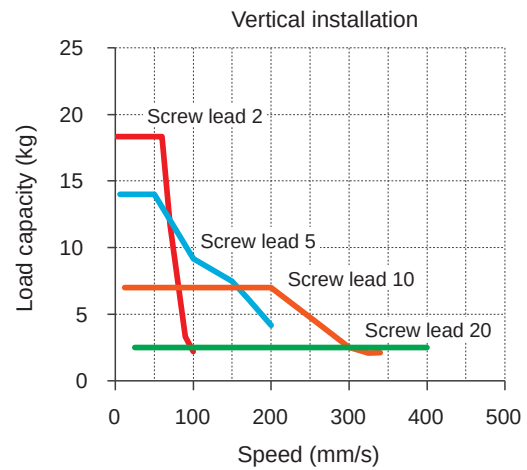
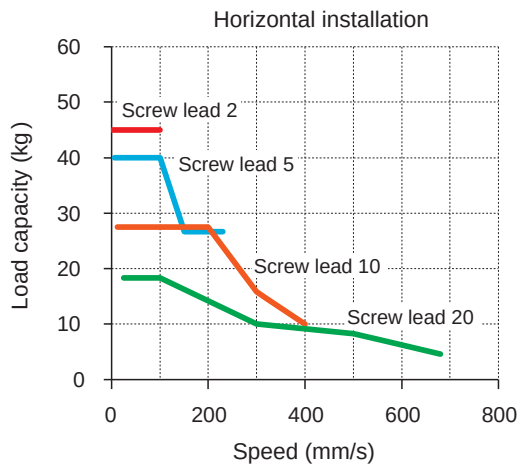
*1 Load capacity varies according to acceleration/deceleration and speed. Refer to pages 40 and 41 for details.

*2 The maximum speed may decrease depending on the conditions.

Stroke and max. speed

Screw lead	Stroke (mm/s)			
	50 to 650	700	750	800
2	100	95	80	70
5	230	230	200	185
10	400	400	400	370
20	680	680	680	680

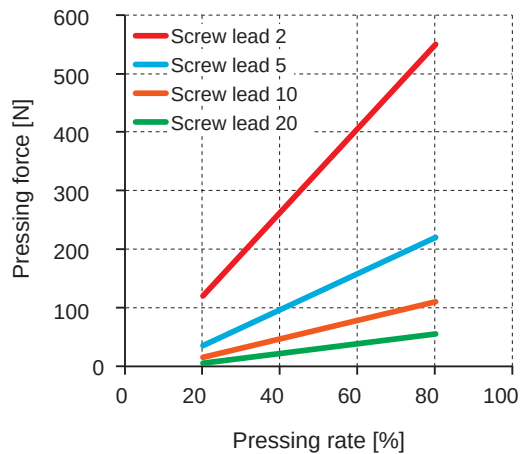
Speed and load capacity



* Acceleration/Deceleration 0.3G.

* Refer to pages 40 and 41 for details.

Pressing force



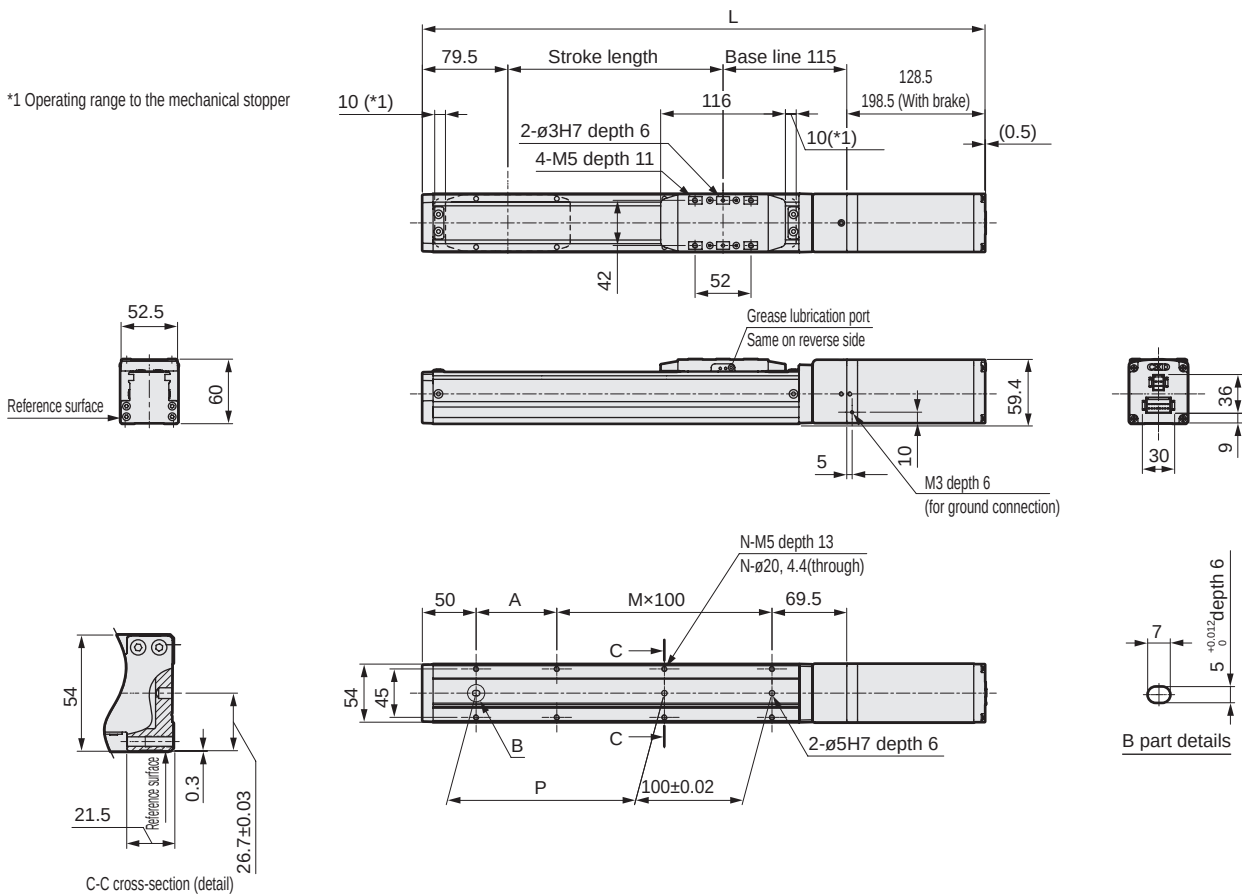
*The above pressing force is a reference value. Variation may occur according to conditions such as pressing speed.

EBS-05GE-P4

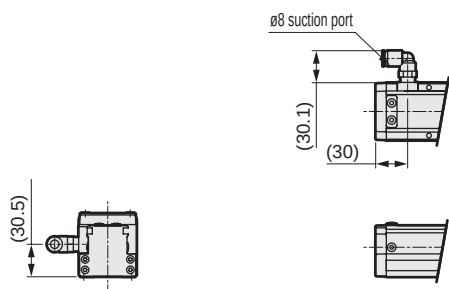
Dimensions Straight motor mounting

● EBS-05GE-P4

*1 Operating range to the mechanical stopper



● EBS-05GE-*-*-*C-P4



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	Without brake	373	423	473	523	573	623	673	723	773	823	873	923	973	1023	1073
	With brake	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143
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)	Without brake	2.8	2.9	3.1	3.2	3.4	3.5	3.7	3.8	4.0	4.1	4.2	4.4	4.5	4.7	4.8
	With brake	3.5	3.6	3.8	3.9	4.1	4.2	4.4	4.5	4.7	4.8	4.9	5.1	5.2	5.4	5.5

* The suction port fitting (ZW-L8-8-P4) is an attachment.

* Use the product with air intake of 30.0Nl/min or less from the intake port.

Notes

EBS-P4 (With motor)	EBR-P4 (With motor)	ECC-A (Controller)	Safety precautions
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Electric actuator Slider

EBS-05G*-P4

Motor side mounting (left, right, bottom)

□42 Stepper motor



How to order

EBS - 05 G R - 05 0300 N B N - C S03 - U C - P4

A Body size
05 Body width 54mm

B Applicable controller *1
G ECG

C Motor mounting direction *2*3
R Right mounting
D Bottom mounting
L Left mounting

D Stroke *2*3
0050 to 0800 50 mm (In 50 mm increments) 800 mm

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

F Brake *4
N None
B Yes

G Encoder
B Battery-less absolute encoder
C Incremental encoder

H Anti-rust treatment *6
N None
U Yes

I Fitting *3
N None
C Yes

J Relay cable *5
N00 None
S01 Fixing cable 1 m
S03 Fixing cable 3 m
S05 Fixing cable 5 m
S10 Fixing cable 10 m
R 01 Movable cable 1 m
R 03 Movable cable 3 m
R 05 Movable cable 5 m
R 10 Movable cable 10 m

*1 Select the controller from page 85.

*2 When the motor mounting direction "D" is selected, the stroke length will be a selection from "0250 (250 mm)" to "0800 (800 mm)".

*3 For the motor mounting direction "L" and "C" with fittings, 0050 (50 mm stroke length) cannot be selected.

*4 When using vertically, select "Yes".

*5 Refer to page 96 for relay cable dimensions.

*6 Positioning pin holes may not be surface treated.

Specifications

Motor		□42 Stepper motor			
Encoder type		Battery-less absolute encoder Incremental encoder			
Drive method		Ball screw ø12			
Stroke	mm	50 to 800			
Screw lead	mm	2	5	10	20
Max. workload kg *1	Horizontal	45.0	40.0	27.5	18.3
	Vertical	18.3	10.0	3.3	0.8
Operation speed range *2	mm/s	2 to 80	6 to 200	12 to 320	25 to 560
Maximum pushing force	N	550	220	110	55
Pressing operation speed range	mm/s	5 to 20	5 to 20	5 to 20	5 to 20
Repeatability	mm	±0.01			
Lost motion	mm	0.1 or less			
Static allowable moment	N·m	MP:103 MY:103 MR:144			
Motor power supply voltage		24 VDC ±10%			
Motor section max. instantaneous current A		2.7			
Brake	Model, power supply voltage	Non-excitation operation, 24 VDC ±10%			
	Power consumption W	6.1			
	Holding force N	420	168	84	42
Insulation resistance		10 MΩ, 500 VDC			
Withstand voltage		500 VAC for 1 minute			
Operating ambient temperature		10 to 40 °C (no freezing)			
Storage ambient temperature		-10 to 50 °C (no freezing)			
Atmosphere		No corrosive gas, explosive gas, or dust			
Degree of protection		IP40			

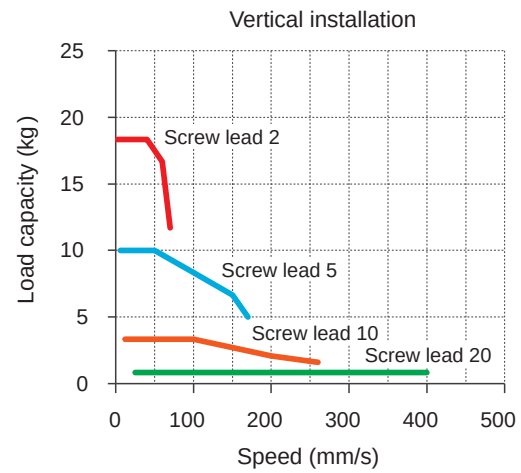
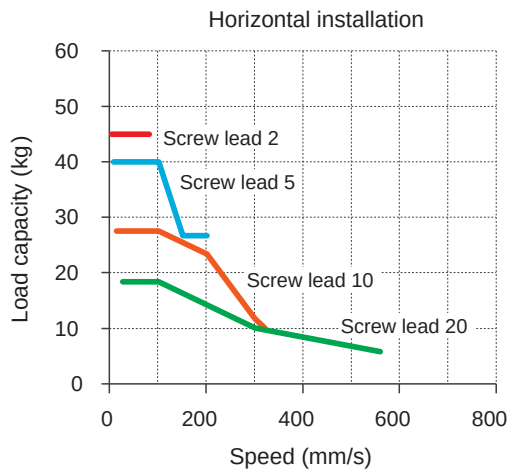
*1 Load capacity varies according to acceleration/deceleration and speed. Refer to pages 40 and 41 for details.

*2 The maximum speed may decrease depending on the conditions.

Stroke and max. speed

Screw lead	(mm/s)	
	Stroke	
	50 to 750	800
2	80	70
5	200	185
10	320	320
20	560	560

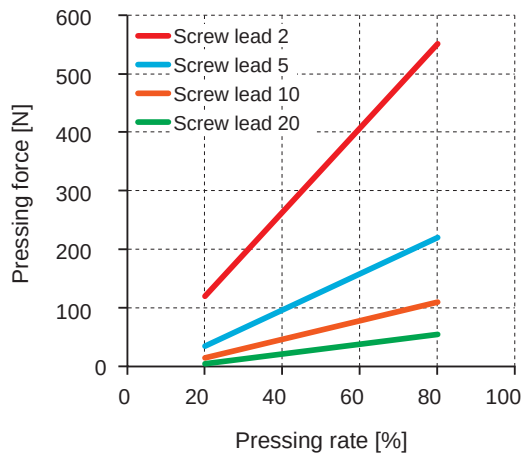
Speed and load capacity



* Acceleration/Deceleration 0.3G.

* Refer to pages 40 and 41 for details.

Pressing force



*The above pressing force is a reference value. Variation may occur according to conditions such as pressing speed.

EBS-P4
(With motor)

EBR-P4
(With motor)

ECC-A
(Controller)

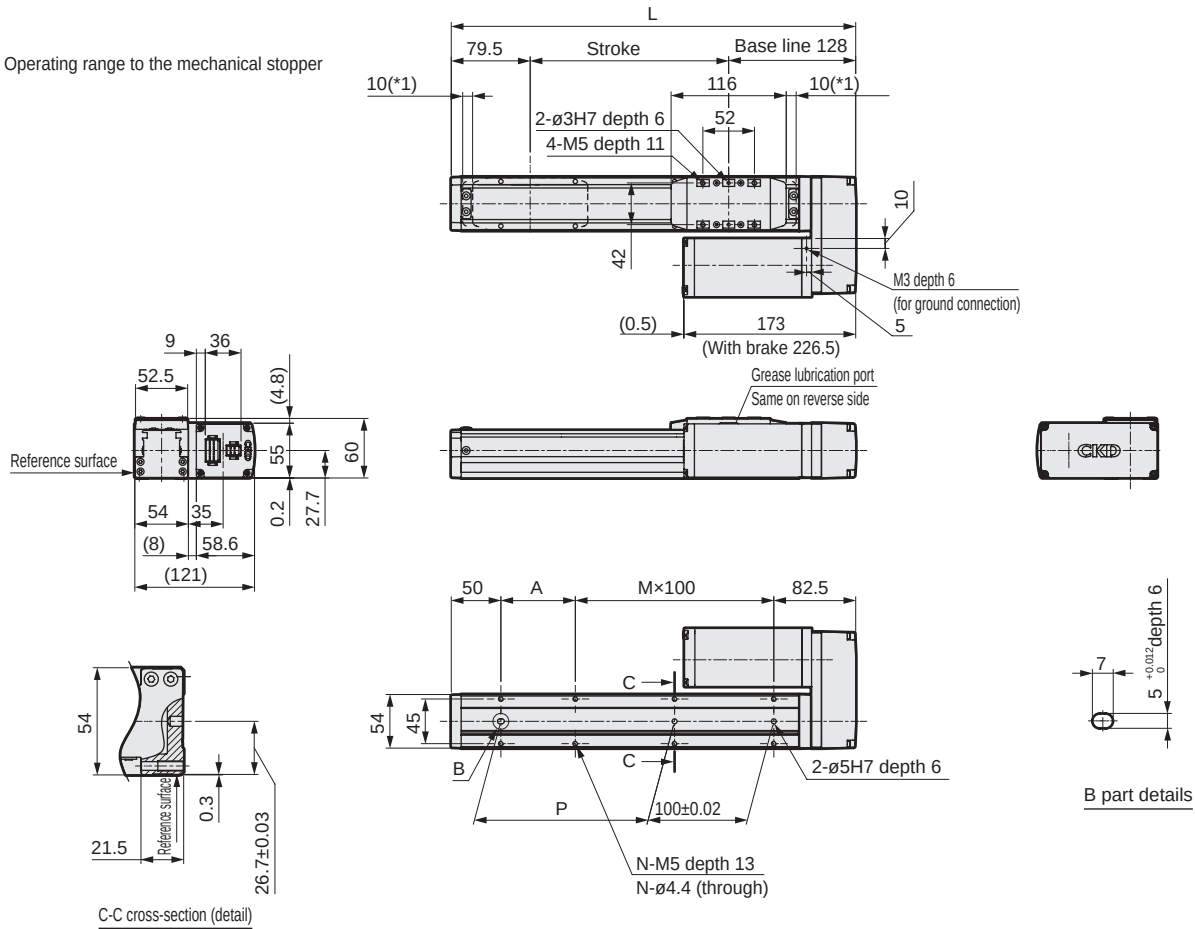
Safety
precautions

EBS-05G*-P4

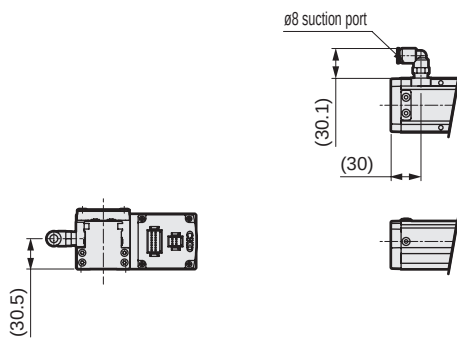
Dimensions Right motor mounting

● EBS-05GR-P4

*1 Operating range to the mechanical stopper



● EBS-05GR-*-*-C-P4



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	257.5	307.5	357.5	407.5	457.5	507.5	557.5	607.5	657.5	707.5	757.5	807.5	857.5	907.5	957.5	1007.5
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)	Without brake	2.7	2.8	3.0	3.1	3.4	3.5	3.6	3.8	3.9	4.0	4.2	4.3	4.5	4.6	5.1
	With brake	3.4	3.5	3.7	3.8	4.1	4.2	4.3	4.5	4.6	4.7	4.9	5.0	5.2	5.3	5.8

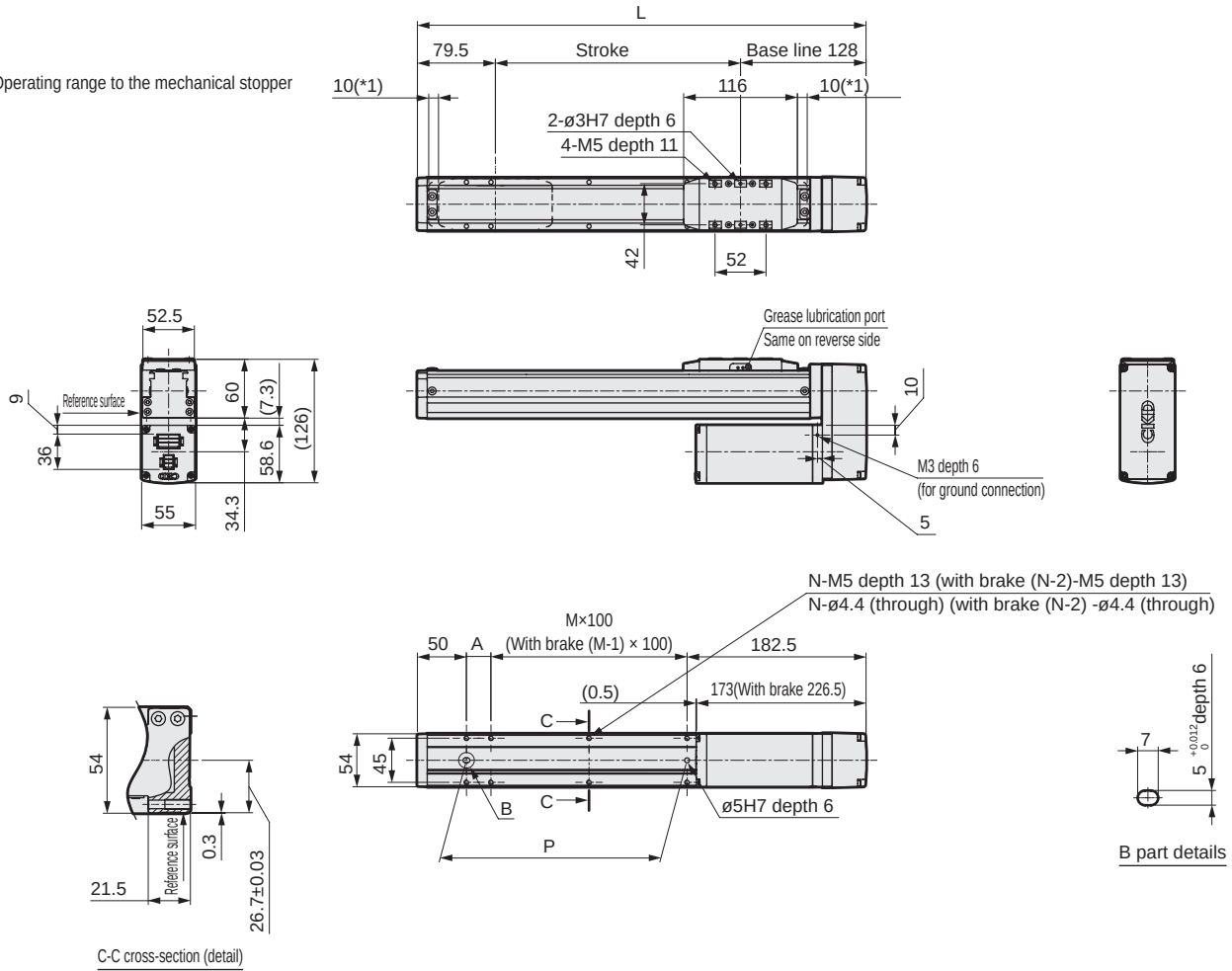
* The suction port fitting (ZW-L8-8-P4) is an attachment.

* Use the product with air intake of 30.0Nl/min or less from the intake port.

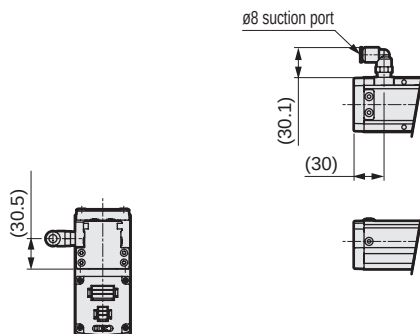
Dimensions Bottom motor mounting

● EBS-05GD-P4

*1 Operating range to the mechanical stopper



● EBS-05GD-*.~.*C-P4



Stroke code	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800
Stroke length (mm)	250	300	350	400	450	500	550	600	650	700	750	800
L	457.5	507.5	557.5	607.5	657.5	707.5	757.5	807.5	857.5	907.5	957.5	1007.5
A	25	75	25	75	25	75	25	75	25	75	25	75
M	2	2	3	3	4	4	5	5	6	6	7	7
N	8	8	10	10	12	12	14	14	16	16	18	18
P	225	275	325	375	425	475	525	575	625	675	725	775
Weight (kg)	Without brake	3.4	3.5	3.6	3.8	3.9	4.0	4.2	4.3	4.5	4.6	5.1
	With brake	4.1	4.2	4.3	4.5	4.6	4.7	4.9	5.0	5.2	5.3	5.8

* The suction port fitting (ZW-L8-8-P4) is an attachment.

* Use the product with air intake of 30.0Nl/min or less from the intake port.

EBS-P4
(With motor)

EBS-P4
(With motor)

ECC-A
(Controller)

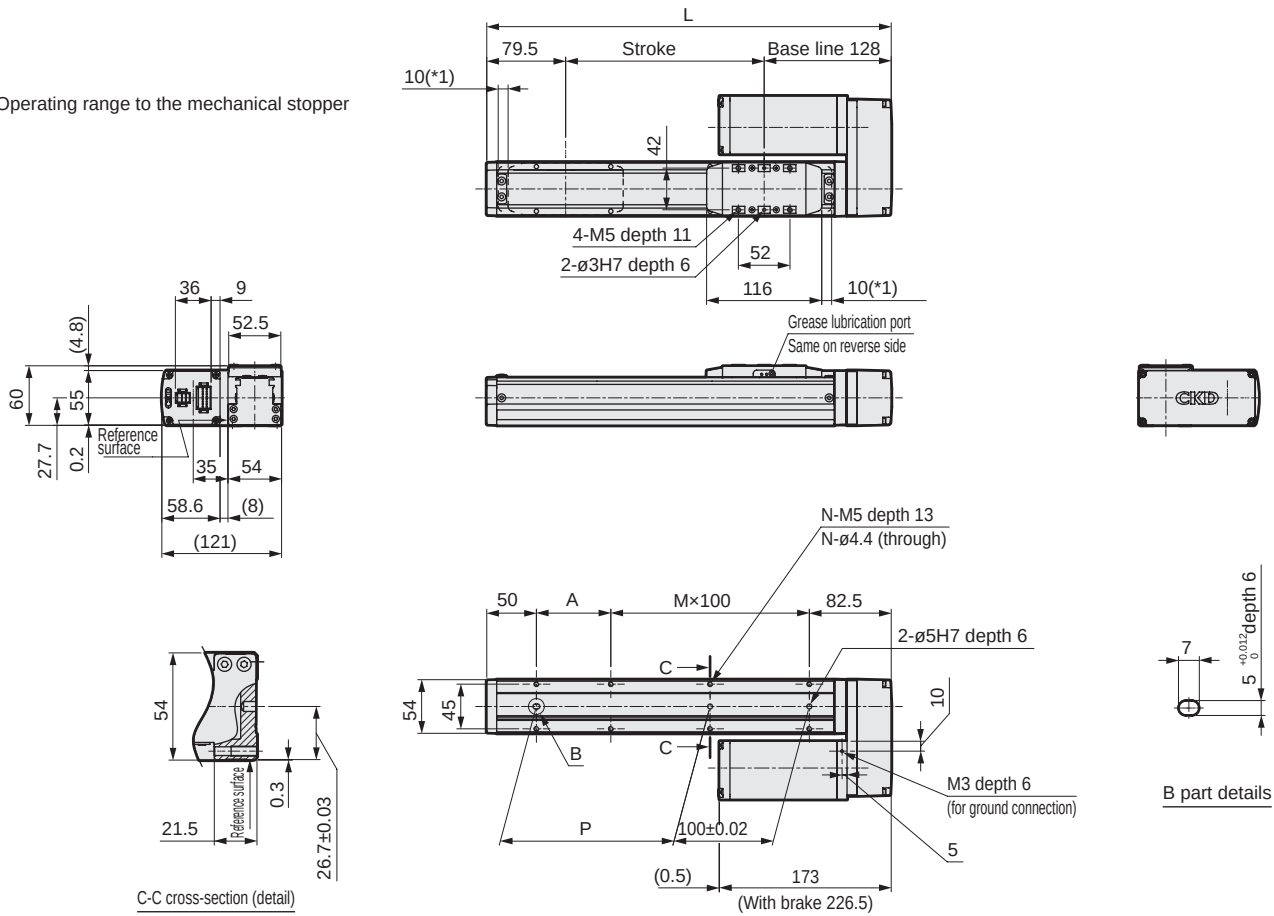
Safety
precautions

EBS-05G*-P4

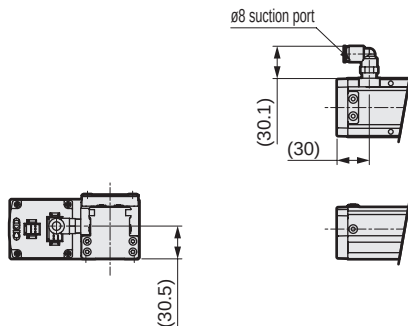
Dimensions Left motor mounting

● EBS-05GL-P4

*1 Operating range to the mechanical stopper



● EBS-05GL-*-**C-P4



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	257.5	307.5	357.5	407.5	457.5	507.5	557.5	607.5	657.5	707.5	757.5	807.5	857.5	907.5	957.5	1007.5
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)	Without brake	2.7	2.8	3.0	3.1	3.4	3.5	3.6	3.8	3.9	4.0	4.2	4.3	4.5	4.6	5.1
	With brake	3.4	3.5	3.7	3.8	4.1	4.2	4.3	4.5	4.6	4.7	4.9	5.0	5.2	5.3	5.8

* The suction port fitting (ZW-L8-8-P4) is an attachment.

* Use the product with air intake of 30.0Nl/min or less from the intake port.

*2: 50 mm stroke length cannot be selected for types with fittings.

Notes

EBS-P4 (With motor)	EBR-P4 (With motor)	ECC-A (Controller)	Safety precautions
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Electric actuator Slider

EBS-08GE-P4

Straight motor mounting

☐ 56 Stepper motor



How to order

EBS - **08** **G** **E** - **05** **0300** **N** **B** **N - C** **S03** - **U** **C** - **P4**

A Body size

08 Body width 82mm

B Applicable controller *1

G ECG

C Motor mounting direction

E Straight mounting

D Screw lead

05 5 mm

10 10 mm

20 20 mm

E Stroke

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

F Brake *2

N None

B Yes

G Encoder

B Battery-less absolute encoder

C Incremental encoder

I Anti-rust treatment *4

N None

U Yes

J Fitting

N None

C Yes

H Relay cable *3

N00 None

S01 Fixing cable 1 m

S03 Fixing cable 3 m

S05 Fixing cable 5 m

S10 Fixing cable 10 m

R 01 Movable cable 1 m

R 03 Movable cable 3 m

R 05 Movable cable 5 m

R 10 Movable cable 10 m

*1 Select the controller from page 85.

*2 When using vertically "Yes".

*3 Refer to page 96 for relay cable dimensions.

*4 Positioning pin holes may not be surface treated.

Specifications

Motor		□56 Stepper motor		
Encoder type		Battery-less absolute encoder Incremental encoder		
Drive method		Ball screw ø16		
Stroke	mm	50 to 1100		
Screw lead	mm	5	10	20
Max. workload kg *1	Horizontal	80.0	70.0	30.0
	Vertical	43.3	28.3	3.3
Operation speed range *2	mm/s	6 to 120	12 to 200	25 to 400
Maximum pushing force	N	965	482	241
Pressing operation speed range	mm/s	5 to 20	5 to 20	5 to 20
Repeatability	mm	±0.01		
Lost motion	mm	0.1 or less		
Static allowable moment	N·m	MP:203 MY:203 MR:336		
Motor power supply voltage		24 VDC ±10%		
Motor section max. instantaneous current		A 4.0		
Brake	Model, power supply voltage		Non-excitation operation, 24 VDC ±10%	
	Power consumption W		7.2	
	Holding force	N	768	384
Insulation resistance		10 MΩ, 500 VDC		
Withstand voltage		500 VAC for 1 minute		
Operating ambient temperature		10 to 40 °C (no freezing)		
Storage ambient temperature		-10 to 50°C (no freezing)		
Atmosphere		No corrosive gas, explosive gas, or dust		
Degree of protection		IP40		

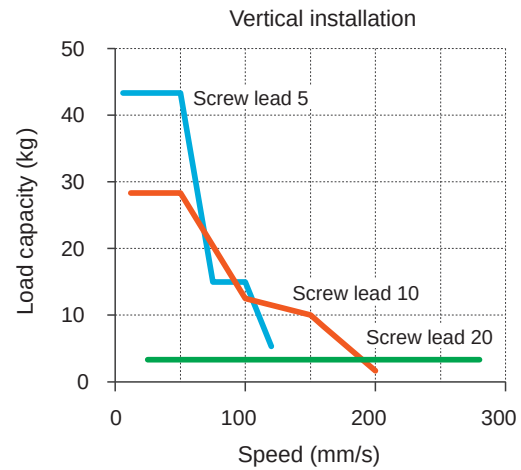
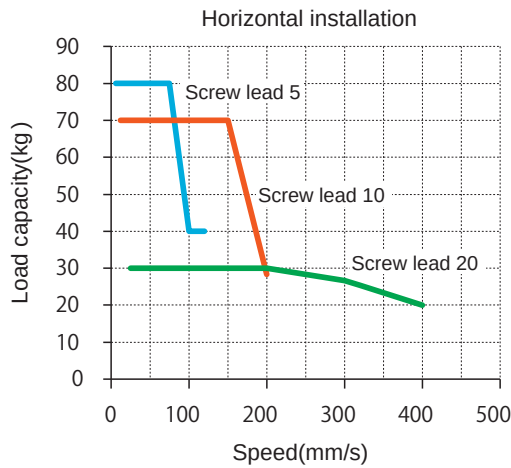
*1 Load capacity varies according to acceleration/deceleration and speed. Refer to pages 40 and 41 for details.

*2 The maximum speed may decrease depending on the conditions.

Stroke and max. speed

Screw lead	Stroke (mm/s)		
	50 to 1000	1050	1100
5	120	110	100
10	200	200	200
20	400	400	400

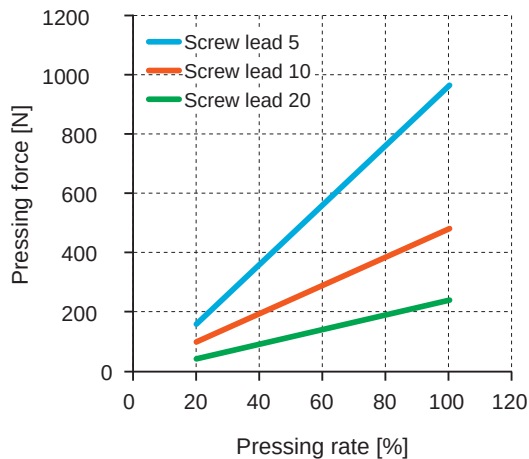
Speed and load capacity



* Acceleration/Deceleration 0.3G.

* Refer to pages 40 and 41 for details.

Pressing force



*The above pressing force is a reference value. Variation may occur according to conditions such as pressing speed.

EBS-P4
(With motor)

EBR-P4
(With motor)

ECC-A
(Controller)

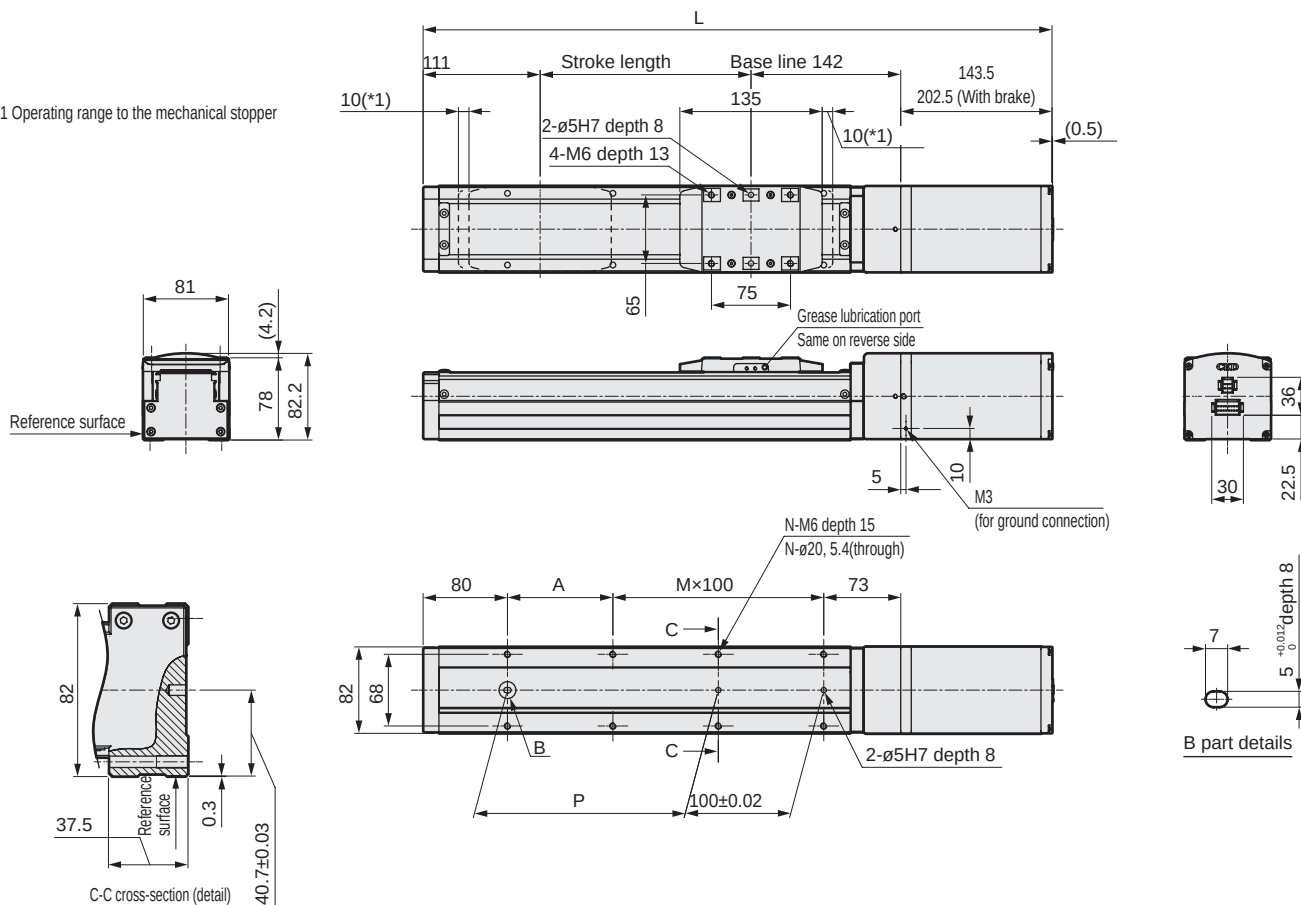
Safety
precautions

EBS-08GE-P4

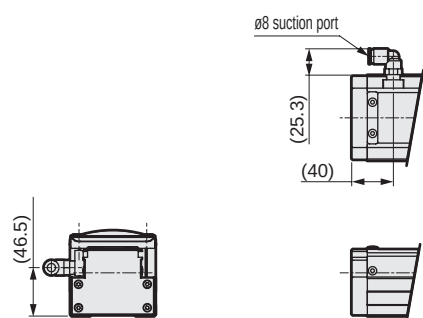
Dimensions Straight motor mounting

● EBS-08GE-P4

*1 Operating range to the mechanical stopper



● EBS-08GE-*-*C-P4



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	Without brake	446.5	496.5	546.5	596.5	646.5	696.5	746.5	796.5	846.5	896.5	946.5	996.5	1046.5	1096.5	1146.5	1196.5	1246.5	1296.5	1346.5	1396.5	1446.5	1496.5
	With brake	505.5	555.5	605.5	655.5	705.5	755.5	805.5	855.5	905.5	955.5	1005.5	1055.5	1105.5	1155.5	1205.5	1255.5	1305.5	1355.5	1405.5	1455.5	1505.5	1555.5
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)	Without brake	6.7	7.0	7.3	7.6	8.0	8.3	8.6	9.0	9.3	9.6	9.9	10.3	10.6	10.9	11.2	11.6	11.9	12.2	12.6	12.9	13.2	13.5
	With brake	8.0	8.3	8.6	8.9	9.3	9.6	9.9	10.3	10.6	10.9	11.2	11.6	11.9	12.2	12.5	12.9	13.2	13.5	13.9	14.2	14.5	14.8

* The suction port fitting (ZW-L8-8-P4) is an attachment.

* Use the product with air intake of 30.0Nl/min or less from the intake port.

Notes

EBS-P4 (With motor)	EBR-P4 (With motor)	ECC-A (Controller)	Safety precautions
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Electric actuator Slider

EBS-08G*-P4

Motor side mounting (left, right, bottom)

□ 56 Stepper motor



How to order

EBS - 08 G R - 05 0300 N B N - C S03 - U C - P4

A Body size

08 Body width 82mm

B Applicable controller *1

G ECG

C Motor mounting direction *2

R Right mounting
D Bottom mounting
L Left mounting

E Stroke *2

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

D Screw lead

05 5 mm
10 10 mm
20 20 mm

F Brake *3

N None
B Yes

G Encoder

B Battery-less absolute encoder
C Incremental encoder

H Anti-rust treatment *5

N None
U Yes

I Fitting

N None
C Yes

J Relay cable *4

N00 None
S01 Fixing cable 1 m
S03 Fixing cable 3 m
S05 Fixing cable 5 m
S10 Fixing cable 10 m
R 01 Movable cable 1 m
R 03 Movable cable 3 m
R 05 Movable cable 5 m
R 10 Movable cable 10 m

*1 Select the controller from page 85.

*2 Motor mounting direction "D" If you select, the stroke length is "0250 (250 mm)" to "1100(1100mm)" is the selection.

*3 When using vertically, select "Yes".

*4 Refer to page 96 for relay cable dimensions.

*5 Positioning pin holes may not be surface treated.

Specifications

Motor		□56 Stepper motor		
Encoder type		Battery-less absolute encoder Incremental encoder		
Drive method		Ball screw ø16		
Stroke	mm	50 to 1100		
Screw lead	mm	5	10	20
Max. workload kg *1	Horizontal	80.0	70.0	30.0
	Vertical	33.3	18.3	3.3
Operation speed range *2	mm/s	6 to 100	12 to 200	25 to 320
Maximum pushing force	N	965	482	241
Pressing operation speed range	mm/s	5 to 20	5 to 20	5 to 20
Repeatability	mm	±0.01		
Lost motion	mm	0.1 or less		
Static allowable moment	N·m	MP:203 MY:203 MR:336		
Motor power supply voltage		24 VDC ±10%		
Motor section max. instantaneous current A		4.0		
Brake	Model, power supply voltage	Non-excitation operation, 24 VDC ±10%		
	Power consumption W	7.2		
	Holding force N	768	384	192
Insulation resistance		10 MΩ, 500 VDC		
Withstand voltage		500 VAC for 1 minute		
Operating ambient temperature		10 to 40 °C (no freezing)		
Storage ambient temperature		-10 to 50°C (no freezing)		
Atmosphere		No corrosive gas, explosive gas, or dust		
Degree of protection		IP40		

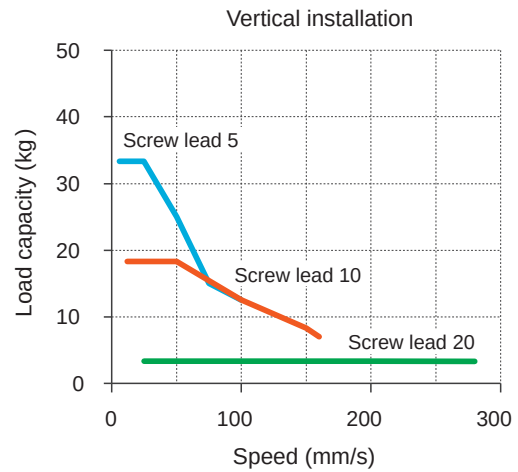
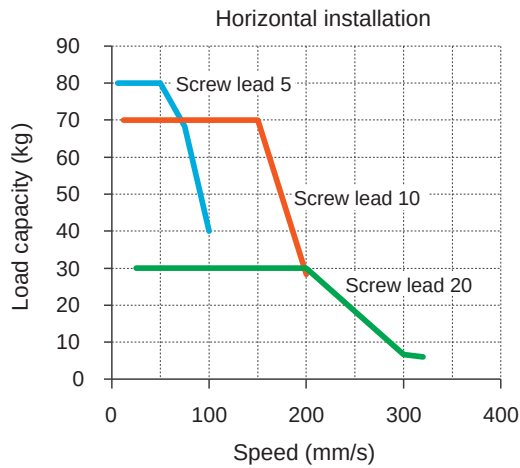
*1 Load capacity varies according to acceleration/deceleration and speed. Refer to pages 40 and 41 for details.

*2 The maximum speed may decrease depending on the conditions.

Stroke and max. speed

Screw lead	(mm/s)
	Stroke
	50 to 1100
5	100
10	200
20	320

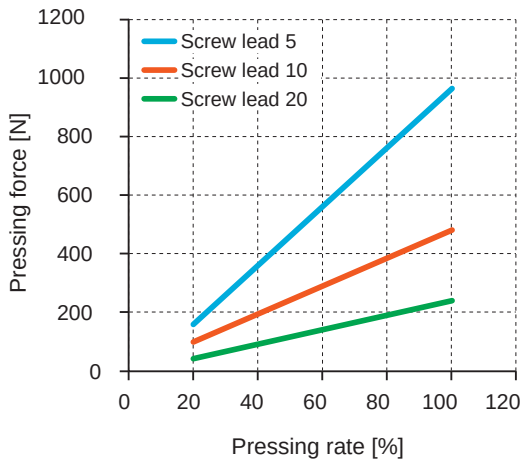
Speed and load capacity



* Acceleration/Deceleration 0.3G.

* Refer to pages 40 and 41 for details.

Pressing force



*The above pressing force is a reference value. Variation may occur according to conditions such as pressing speed.

EBS-P4
(With motor)

EBR-P4
(With motor)

ECC-A
(Controller)

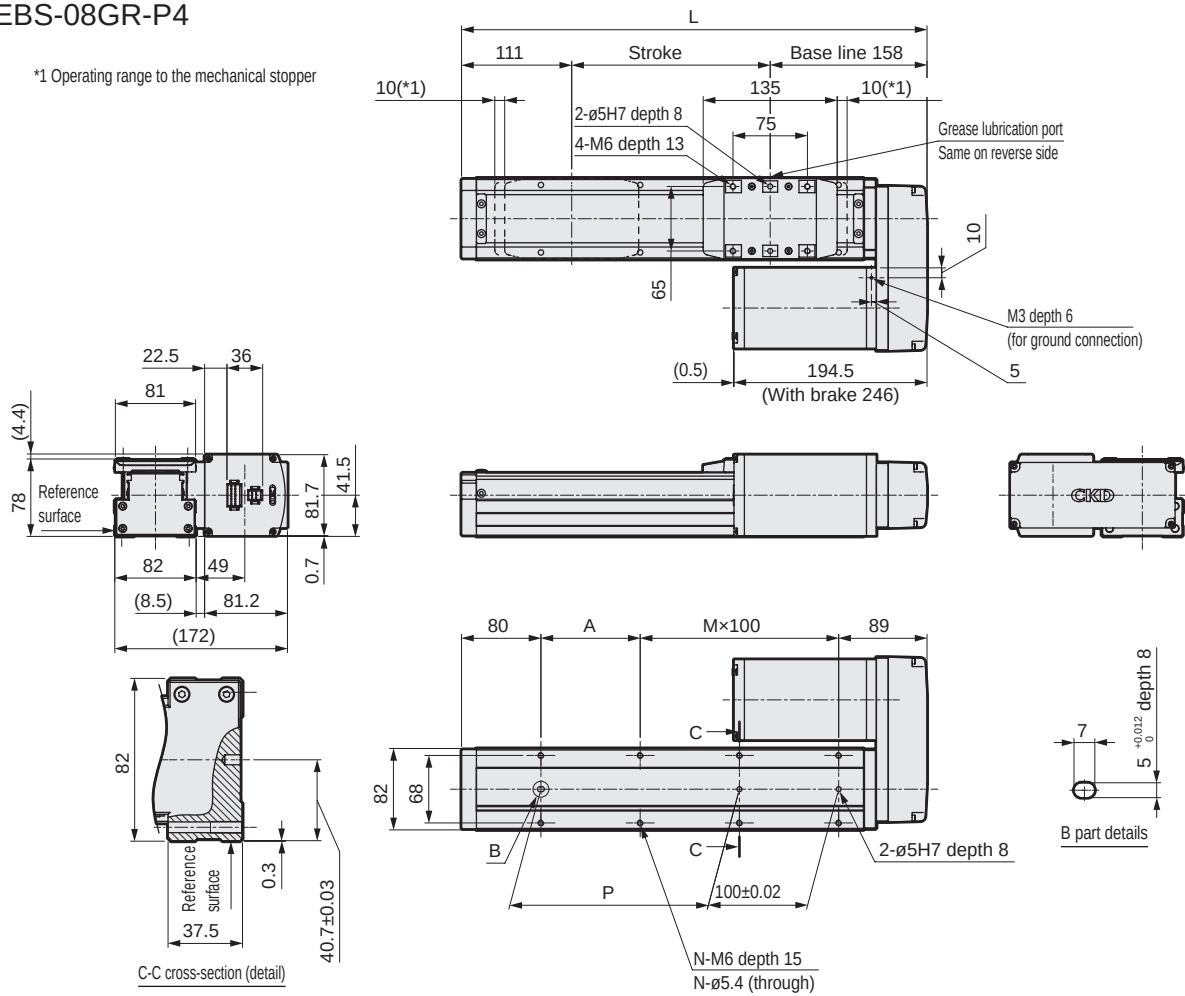
Safety
precautions

EBS-08G*-P4

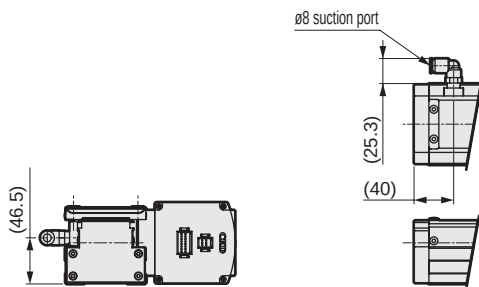
Dimensions Right motor mounting

● EBS-08GR-P4

*1 Operating range to the mechanical stopper



● EBS-08GR-**-**C-P4



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		319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069
A		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
N		6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P		50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Weight (kg)	Without brake	5.7	6.1	6.5	6.8	7.2	7.5	7.8	8.2	8.5	8.8	9.2	9.5	9.9	10.2	10.5	10.8
	With brake	7.0	7.4	7.8	8.1	8.5	8.8	9.1	9.5	9.8	10.1	10.5	10.8	11.2	11.5	11.8	12.1

Stroke code		0850	0900	0950	1000	1050	1100
Stroke length (mm)		850	900	950	1000	1050	1100
L		1119	1169	1219	1269	1319	1369
A		50	100	50	100	50	100
M		9	9	10	10	11	11
N		22	22	24	24	26	26
P		850	900	950	1000	1050	1100
Weight (kg)	Without brake	11.2	11.4	11.8	12.1	12.5	12.9
	With brake	12.5	12.7	13.1	13.4	13.8	14.2

* The suction port fitting (ZW-L8-8-P4) is an attachment.

* Use the product with air intake of 30.0Nℓ/min or less from the intake port.

* The suction port fitting (ZW-L8-8-P4) is an attachment.

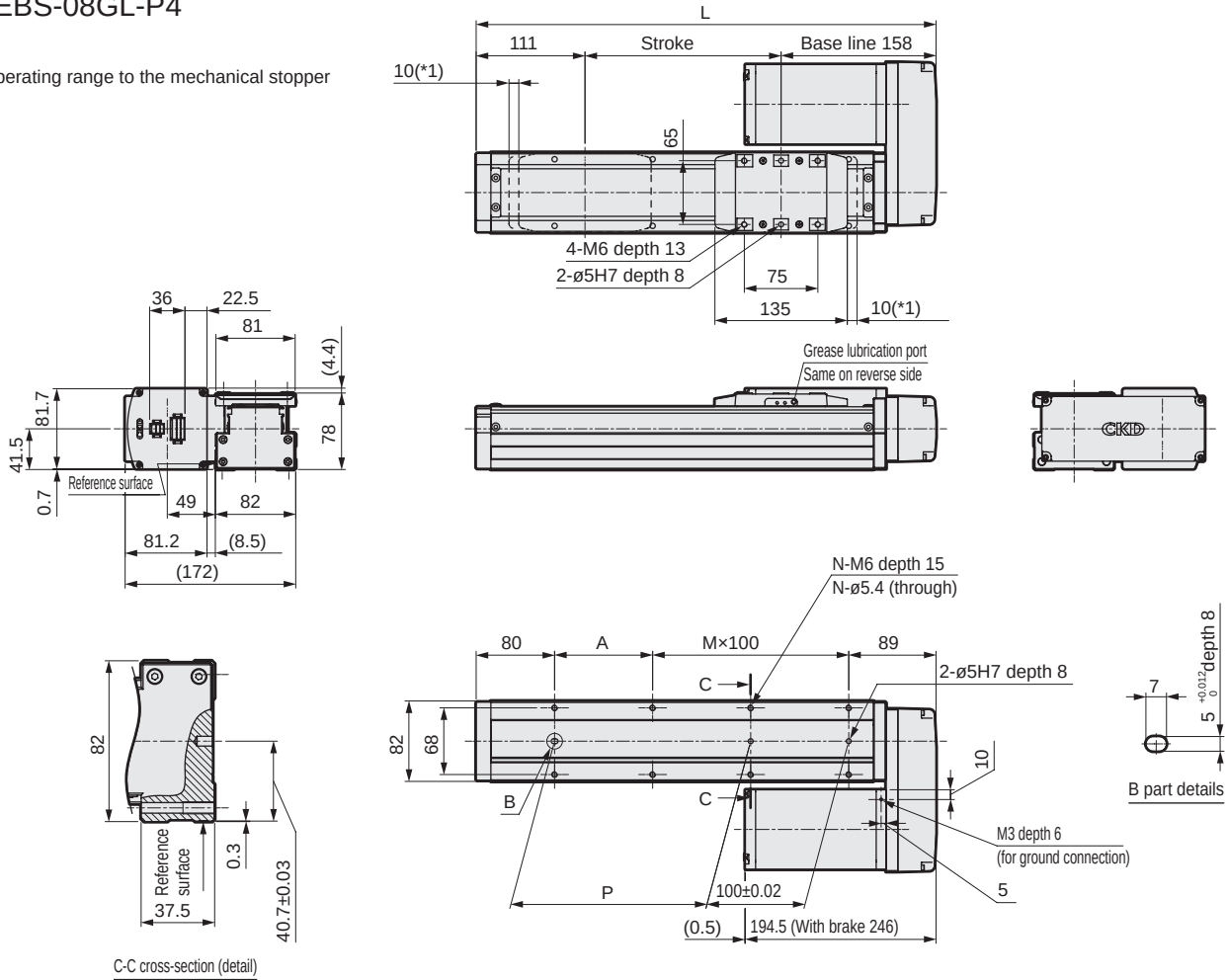
* Use the product with air intake of 30.0Nl/min or less from the intake port.

EBS-08G*-P4

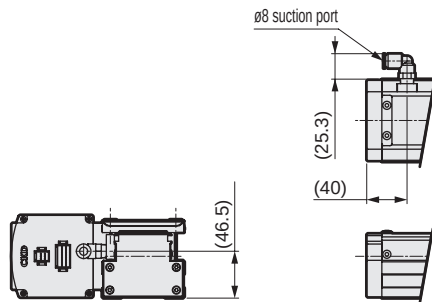
Dimensions Left motor mounting

● EBS-08GL-P4

*1 Operating range to the mechanical stopper



● EBS-08GL-*-*-C-P4



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	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069
A	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
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Weight (kg)	Without brake	5.7	6.1	6.5	6.8	7.2	7.5	7.8	8.2	8.5	8.8	9.2	9.5	9.9	10.2	10.5
	With brake	7.0	7.4	7.8	8.1	8.5	8.8	9.1	9.5	9.8	10.1	10.5	10.8	11.2	11.5	11.8

Stroke code	0850	0900	0950	1000	1050	1100
Stroke length (mm)	850	900	950	1000	1050	1100
L	1119	1169	1219	1269	1319	1369
A	50	100	50	100	50	100
M	9	9	10	10	11	11
N	22	22	24	24	26	26
P	850	900	950	1000	1050	1100
Weight (kg)	Without brake	11.2	11.4	11.8	12.1	12.5
	With brake	12.5	12.7	13.1	13.4	13.8

* The suction port fitting (ZW-L8-8-P4) is an attachment.

* Use the product with air intake of 30.0Nl/min or less from the intake port.