

EBR-M/G

Electric actuator
Motor specifications

Rod with built-in guide



CONTENTS

Product introduction	Intro Page
Series variation	48
● Specifications/How to order/Dimensions	
· EBR-04*	52
· EBR-05*	62
· EBR-08*	72
● Model selection	82
● Technical data	84
⚠ Safety precautions	118
Model selection check sheet	126

EBS
(With motor)

EBR
(With motor)
















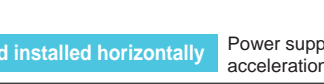
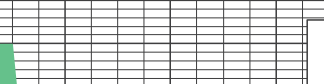
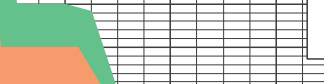
ECR
(Controller)

ECG-A
(Controller)

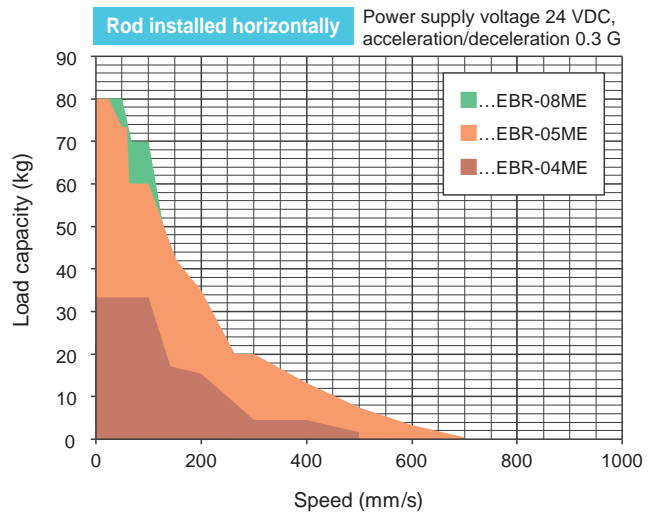
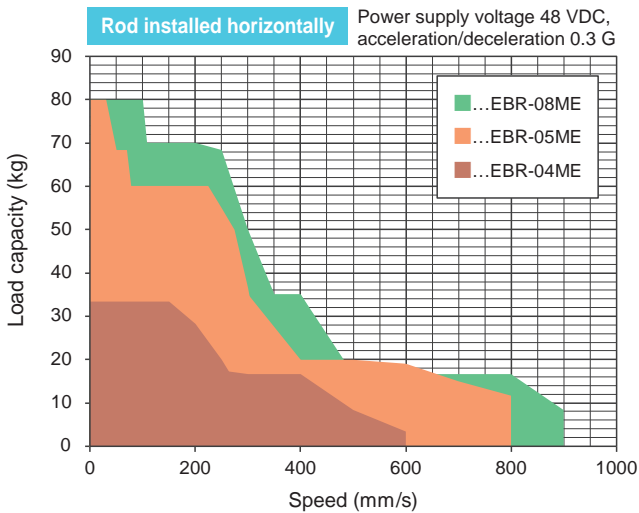
Safety
precautions

EBR-M Series

Series variation

Controller	Actuator model No.	Motor size	Motor mounting direction	Body width (mm)	Screw lead (mm)	Max. load capacity (kg)		Max. Pressing force (N)					
						Horizontal	Vertical						
EBS (With motor)	 EBR-04ME-06	□35	Straight	44	6	33.3	10	131					
	 EBR-04ME-12								18.3	5	69		
	 EBR-04MR/D/L-06		Left/Right/Bottom			6	33.3					9.1	131
	 EBR-04MR/D/L-12								12	18.3	5		
EBR (With motor)	 EBR-05ME-02	□42	Straight	54	2	80	24	397					
	 EBR-05ME-05								5	60	16.6	193	
	 EBR-05ME-10												10
	 EBR-05ME-20								20	20	4.1	33	
ECR (Controller)	 EBR-05MR/D/L-02	□42	Left/Right/Bottom	54	2	80	24	397					
	 EBR-05MR/D/L-05								5	60	16.6	193	
	 EBR-05MR/D/L-10												10
	 EBR-05MR/D/L-20								20	18.3	4.1	33	
ECR Series	 EBR-08ME-05	□56	Straight	82	5	80	38.3	1050					
	 EBR-08ME-10								10	70	18.3	468	
	 EBR-08ME-20												20
	 EBR-08MR/D/L-05		Left/Right/Bottom		5	80	38.3		1050				
	 EBR-08MR/D/L-10									10	70	18.3	468
	 EBR-08MR/D/L-20												

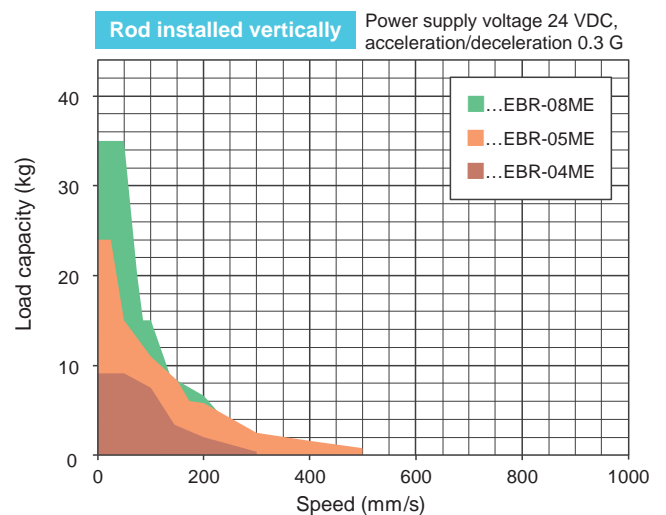
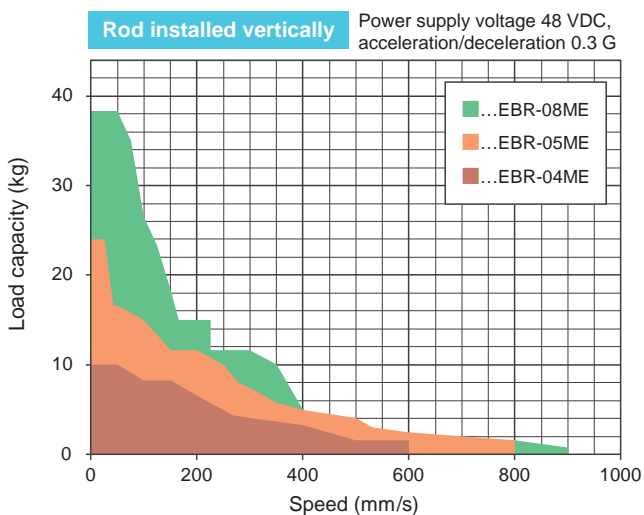
Safety precautions



	Stroke (mm) and max. speed (mm/s)														Page		
	50 mm	100	150	200	250	300	350	400	450	500	550	600	650	700			
	350 mm/s				300	250										52	EBS (With motor)
	600				490												
	350				300	250										56	EBR (With motor)
	600				490												
	130				85										62		
	330				210												
	600				420												
	800														66	ECR (Controller)	
	120				85												
	330				210												
	500				420												
	800														72	ECG-A (Controller)	
	225				200												
	450				400												
	900				600									76			
	225				200												
	450				400												
	700				600												

* This data is at power supply voltage 48 VDC and acceleration/deceleration 0.3 G.
 * The load capacity when wall mounted is the same as for horizontal installation.

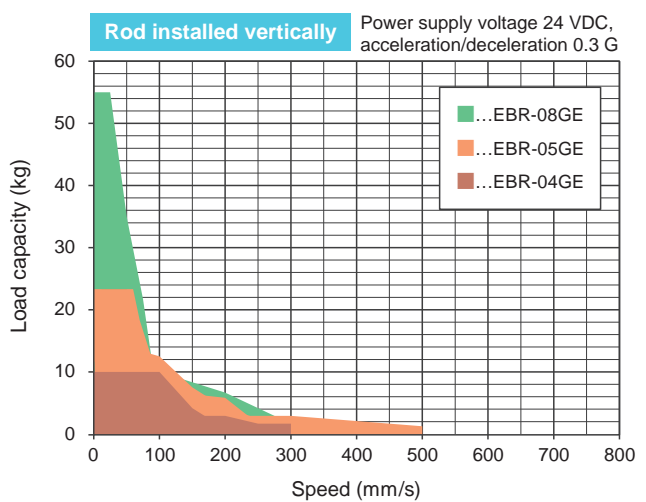
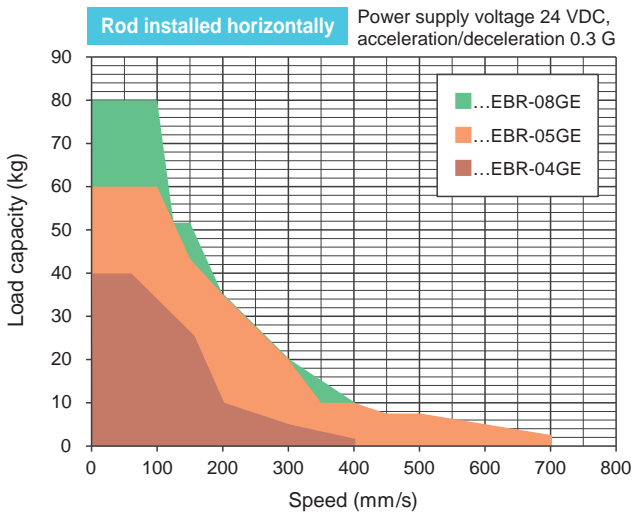
EBS
(With motor)
 EBR
(With motor)
 ECR
(Controller)
 ECG-A
(Controller)
 Safety
 precautions



Series variation

Controller	Actuator model No.		Motor size	Motor mounting direction	Body width (mm)	Screw lead (mm)	Max. load capacity (kg)		Max. Pressing force (N)
							Horizontal	Vertical	
EBS (With motor)		EBR-04GE-06	□35	Straight	44	6	40.0	10.0	155
		EBR-04GE-12				12	12.5	2.9	77
		EBR-04GR/D/L-06		Left/Right/Bottom		6	40.0	8.3	155
		EBR-04GR/D/L-12				12	12.5	2.9	77
EBR (With motor)		EBR-05GE-02	□42	Straight	54	2	80.0	23.3	550
		EBR-05GE-05				5	60.0	14.0	220
		EBR-05GE-10				10	41.7	7.0	110
		EBR-05GE-20				20	11.7	2.9	55
ECR (Controller)		EBR-05GR/D/L-02	□42	Left/Right/Bottom	54	2	80.0	23.3	550
		EBR-05GR/D/L-05				5	60.0	14.0	220
		EBR-05GR/D/L-10				10	38.3	6.7	110
		EBR-05GR/D/L-20				20	11.7	1.7	55
ECG-A (Controller)		EBR-08GE-05	□56	Straight	82	5	80.0	55.0	965
		EBR-08GE-10				10	70.0	23.3	482
		EBR-08GE-20				20	35.0	10.0	241
		EBR-08GR/D/L-05				Left/Right/Bottom	5	80.0	55.0
		EBR-08GR/D/L-10		10			70.0	20.0	482
		EBR-08GR/D/L-20		20			35.0	8.3	241
		ECG Series				EBR-08GE-05	□56	Straight	82
EBR-08GE-10	10		70.0		23.3	482			
EBR-08GE-20	20		35.0		10.0	241			
EBR-08GR/D/L-05	Left/Right/Bottom		5		80.0	55.0			
EBR-08GR/D/L-10			10		70.0	20.0		482	
EBR-08GR/D/L-20			20		35.0	8.3		241	

Safety precautions



	Stroke (mm) and max. speed (mm/s)														Page		
	50 mm	100	150	200	250	300	350	400	450	500	550	600	650	700			
	200 mm/s															52	EBS (With motor)
	400																
	200															56	EBR (With motor)
	350																
	90					85										62	
	300					210											
	500					420											
	700																
	90					85										66	ECR (Controller)
	250					210											
	400																
	600																
	125															72	ECG-A (Controller)
	300																
	500																
	125															76	Safety precautions
	250																
	400																

* This data is at power supply voltage 24 VDC and acceleration/deceleration 0.3 G.
 * The load capacity when wall mounted is the same as for horizontal installation.



Electric actuator Rod with built-in guide

EBR-04*E

Straight motor mounting

- 35 stepper motor
- Battery-less absolute encoder
- Incremental encoder



How to order

EBR - 04 M E - 00 - 06 0300 N A N - C S03

A Body size

04	Body width 44 mm
----	------------------

B Applicable controller *1

M	ECR
G	ECG

C Motor mounting direction

E	Straight mounting
---	-------------------

D Mounting

00	Basic
FA	Rod side flange

E Screw lead

06	6 mm
12	12 mm

F Stroke

0050 to 0400	50 mm (In 50 mm increments) 400 mm
--------------	------------------------------------

G Brake *2

N	None
B	Yes

H encoder *1

A	Battery-less absolute encoder (for ECR)
B	Battery-less absolute encoder (for ECG)
C	Incremental encoder (for ECG)

I 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
R01	Movable cable 1 m
R03	Movable cable 3 m
R05	Movable cable 5 m
R10	Movable cable 10 m

*1 Select the controller from page 93 or page 105.

Select encoder "A" when an ECR controller is selected and "B" or "C" when an ECG controller is selected.

*2 Select "Yes" for vertical use.

*3 Refer to page 103 for ECR and page 116 for ECG relay cable dimensions.

Product subject to the EAR (EAR99)

Specifications

[EBR-04M (applicable controller ECR)]

Motor	<input type="checkbox"/> 35 stepper motor	
Encoder type	Battery-less absolute encoder	
Drive method	Ball screw \varnothing 10	
Stroke length mm	50 to 400	
Screw lead mm	6	12
Max. load capacity kg	Horizontal	Vertical
*1 *2	33.3 (33.3)	18.3 (18.3)
	10 (9.1)	5 (4.5)
Operation speed range*3*4 mm/s	7 to 350 (250)	15 to 600 (500)
Maximum pressing force N	131	69
Press operation speed range mm/s	5 to 20	5 to 30
Repeatability mm	\pm 0.01	
Lost motion mm	0.1 or less	
Motor power supply voltage	24 VDC \pm 10% or 48 VDC \pm 10%	
Motor section max. instantaneous current A	4.0	
Brake	Model, power supply voltage	Non-excitation operation, 24 VDC \pm 10%
	Power consumption W	7
	Holding force N	126 63

*1 The values in () are at 24 VDC.

*2 Load capacity varies according to acceleration/deceleration and speed. Refer to page 88 for details.

*3 The maximum speed values in () are at 24 VDC.

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

[EBR-04G (applicable controller ECG)]

Motor	<input type="checkbox"/> 35 stepper motor	
Encoder type	Battery-less absolute encoder Incremental encoder	
Drive method	Ball screw \varnothing 10	
Stroke length mm	50 to 400	
Screw lead mm	6	12
Max. load capacity kg	Horizontal	Vertical
*1	40.0	12.5
	10.0	2.9
Operation speed range*2 mm/s	7 to 200	15 to 400
Maximum pressing force N	155	77
Press operation speed range mm/s	5 to 20	5 to 20
Repeatability mm	\pm 0.01	
Lost motion mm	0.1 or less	
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

*1 Load capacity varies according to acceleration/deceleration and speed. Refer to page 90 for details.

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

[Common specifications]

Insulation resistance	10M Ω , 500 VDC
Withstand voltage	500 VAC for 1 minute
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
Degree of protection	IP40

*The operating ambient temperature for the applicable ECG controller is 10°C to 40°C.

Stroke and max. speed

[EBR-04M (applicable controller ECR)]

(mm/s)

Screw lead	Power supply voltage	Stroke length				
		50 to 200	250	300	350	400
6	48 VDC	350	300	250	250	250
	24 VDC	250	250	250	250	250
12	48 VDC	600	600	490	490	490
	24 VDC	500	500	490	490	490

[EBR-04G (applicable controller ECG)]

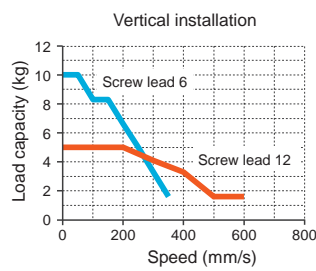
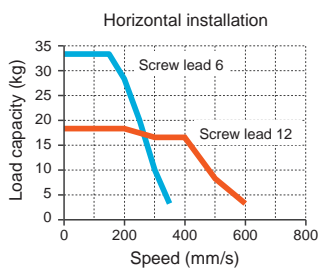
(mm/s)

Screw lead	Power supply voltage	Stroke length
		50 to 400
6	24 VDC	200
12	24 VDC	400

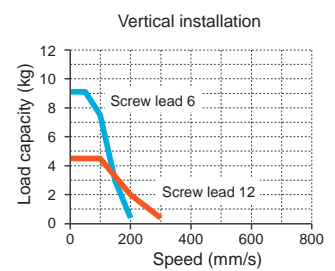
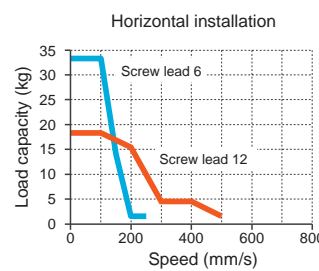
Speed and load capacity

[EBR-04M (applicable controller ECR)]

· At 48 VDC

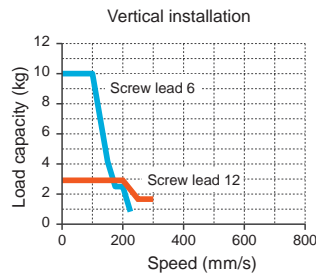
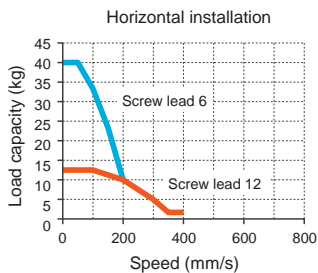


· At 24 VDC



[EBR-04G (applicable controller ECG)]

· At 24 VDC



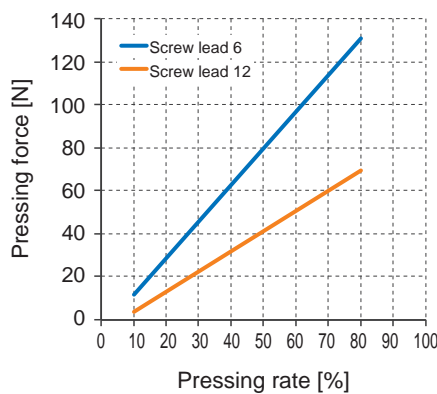
* Incorrectly applying a 48 VDC power supply could result in damage.

* At acceleration of 0.3 G.

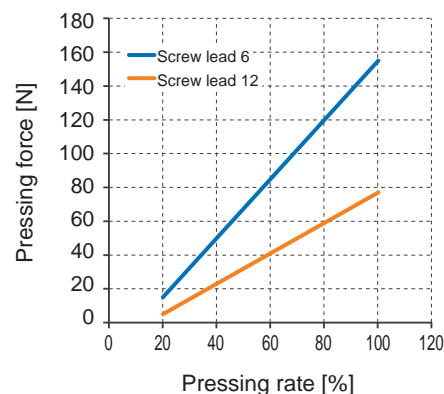
* Confirm each of the pages listed below for details.
 ECR: Page 88
 ECG: Page 90

Pressing force

[EBR-04M (applicable controller ECR)]



[EBR-04G (applicable controller ECG)]



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

EBS
(With motor)
EBR
(With motor)
ECR
(Controller)
ECG-A
(Controller)

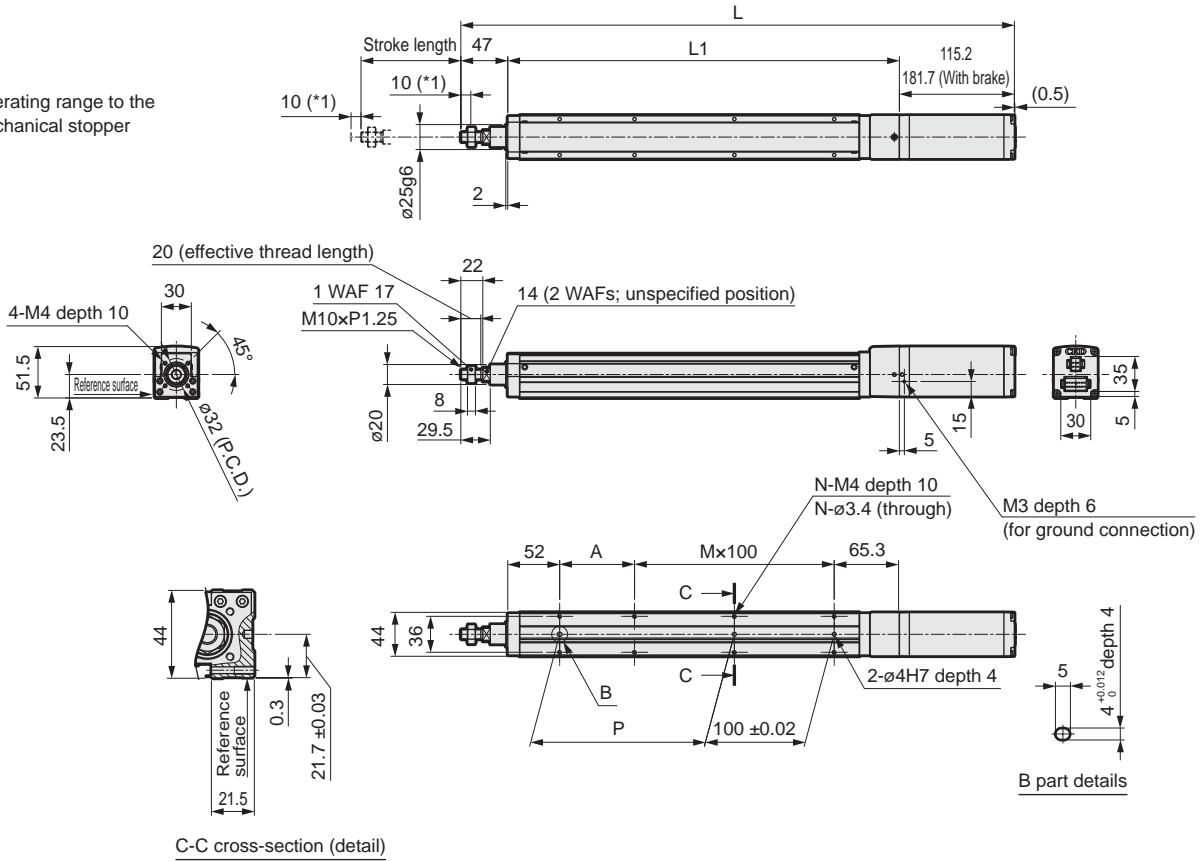
Safety
precautions

EBR-04*E

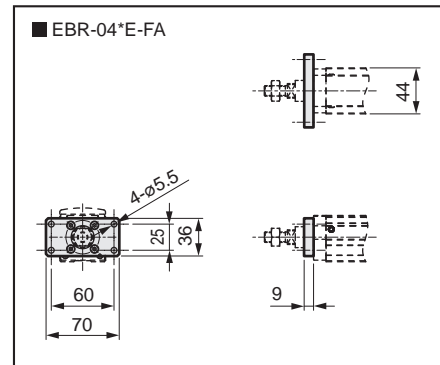
Dimensions: Straight motor mounting

● EBR-04*E

*1 Operating range to the mechanical stopper



Stroke code	0050	0100	0150	0200	0250	0300	0350	0400	
Stroke length (mm)	50	100	150	200	250	300	350	400	
L	Without brake	404.5	454.5	504.5	554.5	604.5	654.5	704.5	754.5
	With brake	471	521	571	621	671	721	771	821
L1	242.3	292.3	342.3	392.3	442.3	492.3	542.3	592.3	
A	25	75	25	75	25	75	25	75	
M	1	1	2	2	3	3	4	4	
N	6	6	8	8	10	10	12	12	
P	25	75	125	175	225	275	325	375	
Weight (kg)	Without brake	1.6	1.8	1.9	2.1	2.2	2.4	2.5	2.7
	With brake	2.1	2.3	2.4	2.6	2.7	2.9	3.0	3.2



EBS
(With motor)

EBR
(With motor)

ECR
(Controller)

ECG-A
(Controller)

Safety
precautions

Notes

EBS
(With motor)

EBR
(With motor)

ECR
(Controller)

ECG-A
(Controller)

Safety
precautions



Electric actuator Rod with built-in guide

EBR-04**

Motor side mounting (left, right, bottom)

- 35 stepper motor
- Battery-less absolute encoder
- Incremental encoder



How to order

EBR - **04** **M** **R** - **00** - **06** **0300** **N** **A** **N** - **C** **S03**

A Body size

04	Body width 44 mm
-----------	------------------

B Applicable controller *1

M	ECR
G	ECG

C Motor mounting direction *2

R	Right mounting
D	Bottom mounting
L	Left mounting

E Screw lead

06	6 mm
12	12 mm

F Stroke *2

0050 to 0400	50 mm (In 50 mm increments) 400 mm
---------------------	------------------------------------

D Mounting

00	Basic
FA	Rod side flange

G Brake *3

N	None
B	Yes

H Encoder

A	Battery-less absolute encoder (for ECR)
B	Battery-less absolute encoder (for ECG)
C	Incremental encoder (for ECG)

I 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
R01	Movable cable 1 m
R03	Movable cable 3 m
R05	Movable cable 5 m
R10	Movable cable 10 m

*1 Select the controller from page 93 or page 105.

Select encoder "A" when an ECR controller is selected and "B" or "C" when an ECG controller is selected.

*2 If "D" is selected for the motor mounting direction, select a stroke length from "0250 (250 mm)" to "0400 (400 mm)".

*3 Select "Yes" for vertical use.

*4 Refer to page 103 for ECR and page 116 for ECG relay cable dimensions.

Product subject to the EAR (EAR99)

Specifications

[EBR-04M (applicable controller ECR)]

Motor	<input type="checkbox"/> 35 stepper motor	
Encoder type	Battery-less absolute encoder	
Drive method	Ball screw \varnothing 10	
Stroke length mm	50 to 400	
Screw lead mm	6	12
Max. load capacity kg	Horizontal	Vertical
*1 *2	33.3 (33.3)	18.3 (18.3)
	9.1 (9.1)	5 (4.5)
Operation speed range *3 4 mm/s	7 to 350 (200)	15 to 600 (400)
Maximum pressing force N	131	69
Press operation speed range mm/s	5 to 20	5 to 30
Repeatability mm	\pm 0.01	
Lost motion mm	0.1 or less	
Motor power supply voltage	24 VDC \pm 10% or 48 VDC \pm 10%	
Motor section max. instantaneous current A	4.0	
Brake	Model, power supply voltage	Non-excitation operation, 24 VDC \pm 10%
	Power consumption W	7
	Holding force N	126

*1 The values in () are at 24 VDC.

*2 Load capacity varies according to acceleration/deceleration and speed. Refer to page 88 for details.

*3 The maximum speed values in () are at 24 VDC.

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

[EBR-04G (applicable controller ECG)]

Motor	<input type="checkbox"/> 35 stepper motor	
Encoder type	Battery-less absolute encoder Incremental encoder	
Drive method	Ball screw \varnothing 10	
Stroke length mm	50 to 400	
Screw lead mm	6	12
Max. load capacity kg	Horizontal	Vertical
*1	40.0	12.5
	8.3	2.9
Operation speed range *2 mm/s	7 to 200	15 to 350
Maximum pressing force N	155	77
Press operation speed range mm/s	5 to 20	5 to 20
Repeatability mm	\pm 0.01	
Lost motion mm	0.1 or less	
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

*1 Load capacity varies according to acceleration/deceleration and speed. Refer to page 90 for details.

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

[Common specifications]

Insulation resistance	10M Ω , 500 VDC
Withstand voltage	500 VAC for 1 minute
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
Degree of protection	IP40

* The operating ambient temperature of EBR-**G is 10°C to 40°C.

Stroke and max. speed

[EBR-04M (applicable controller ECR)]

(mm/s)

Screw lead	Power supply voltage	Stroke length				
		50 to 200	250	300	350	400
6	48 VDC	350	300	250	250	250
	24 VDC	200	200	200	200	200
12	48 VDC	600	600	490	490	490
	24 VDC	400	400	400	400	400

[EBR-04G (applicable controller ECG)]

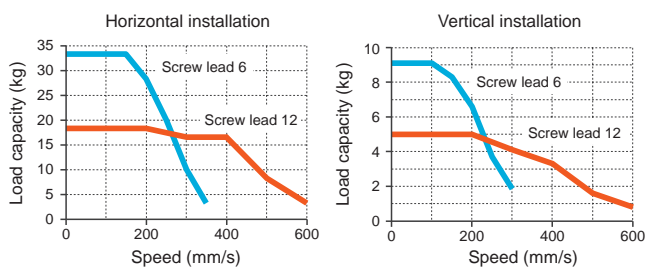
(mm/s)

Screw lead	Power supply voltage	Stroke length
		50 to 400
6	24 VDC	200
12	24 VDC	350

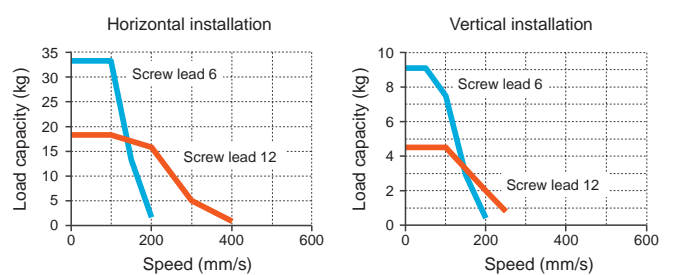
Speed and load capacity

[EBR-04M (applicable controller ECR)]

· At 48 VDC

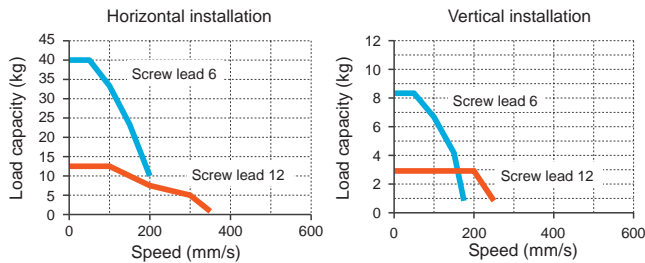


· At 24 VDC



[EBR-04G (applicable controller ECG)]

· At 24 VDC



* Incorrectly applying a 48 VDC power supply could result in damage.

* At acceleration of 0.3 G.

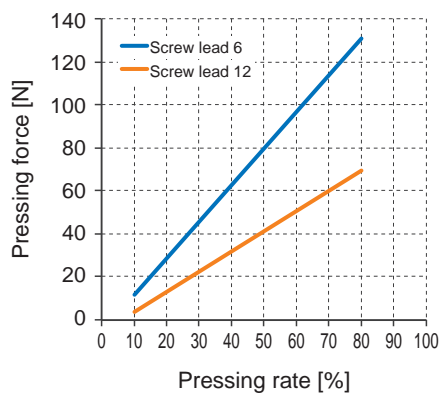
* Confirm each of the pages listed below for details.

ECR: Page 88

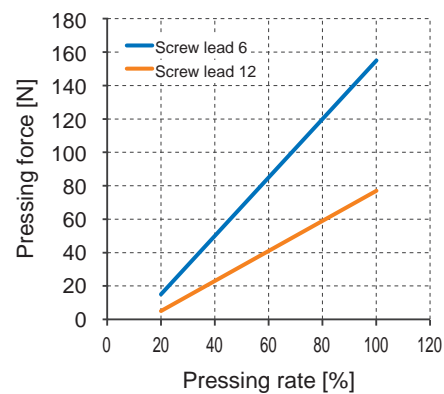
ECG: Page 90

Pressing force

[EBR-04M (applicable controller ECR)]



[EBR-04G (applicable controller ECG)]



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

EBS
(With motor)

EBR
(With motor)

ECR
(Controller)

ECG-A
(Controller)

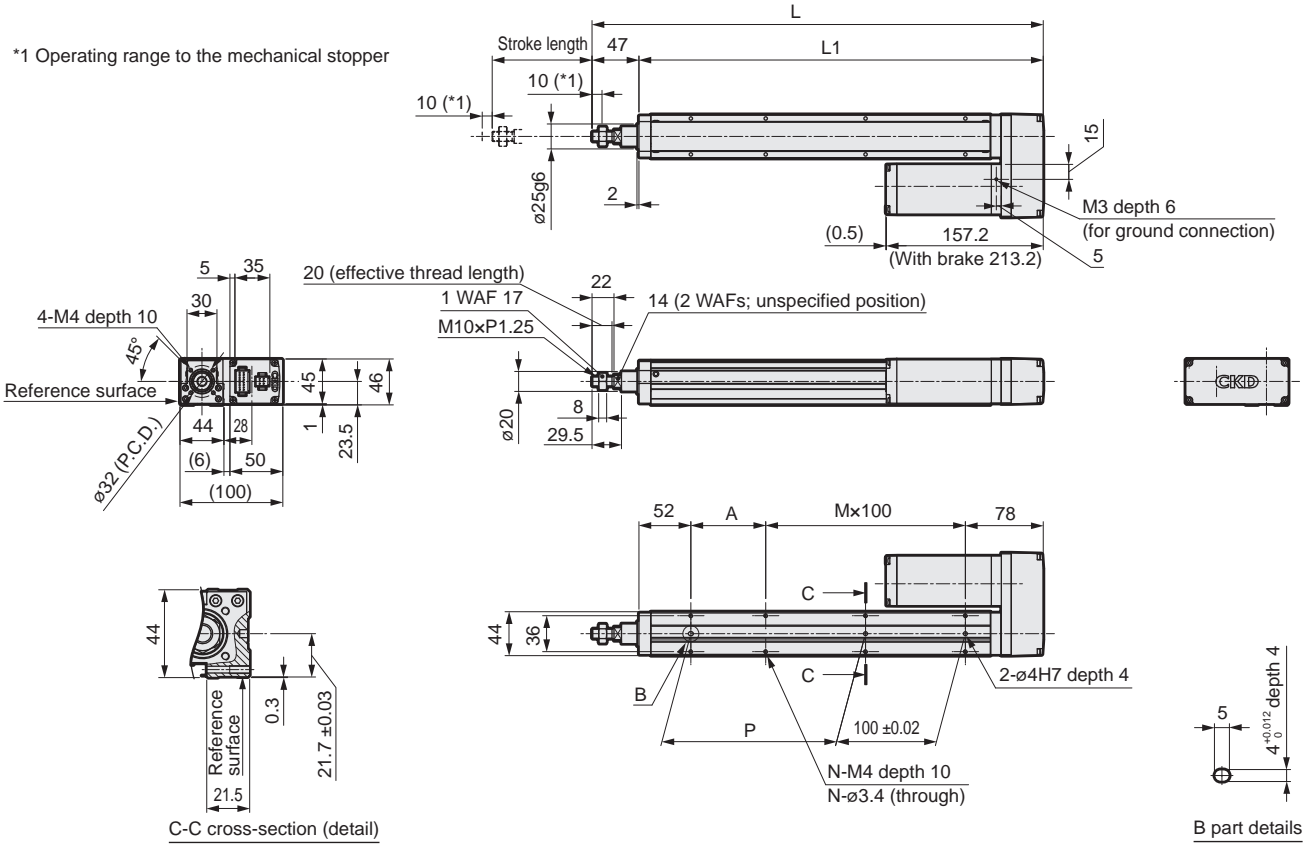
Safety
precautions

EBR-04**

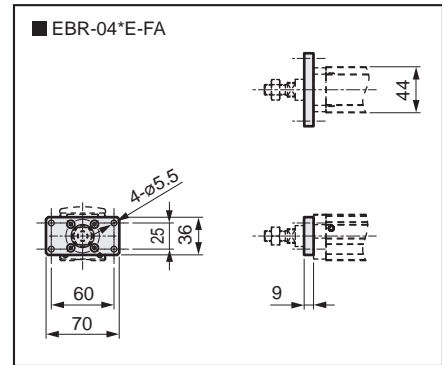
Dimensions: Motor right-side mounting

EBR-04*R

*1 Operating range to the mechanical stopper



Stroke code	0050	0100	0150	0200	0250	0300	0350	0400	
Stroke length (mm)	50	100	150	200	250	300	350	400	
L	302	352	402	452	502	552	602	652	
L1	255	305	355	405	455	505	555	605	
A	25	75	25	75	25	75	25	75	
M	1	1	2	2	3	3	4	4	
N	6	6	8	8	10	10	12	12	
P	25	75	125	175	225	275	325	375	
Weight (kg)	Without brake	1.6	1.8	1.9	2.1	2.3	2.5	2.6	2.8
	With brake	2.1	2.3	2.4	2.6	2.8	3.0	3.1	3.3



EBS
(With motor)

EBR
(With motor)

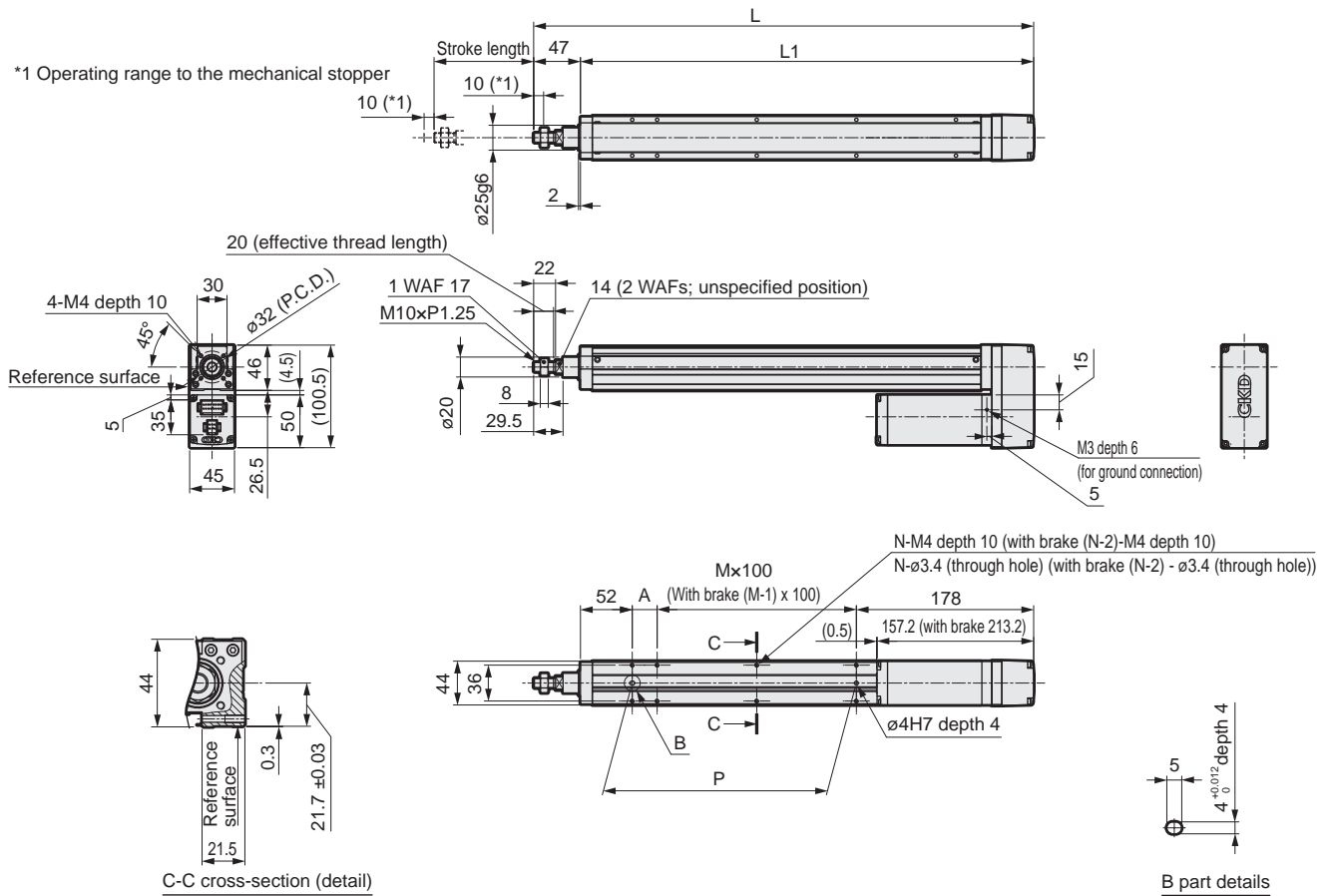
ECR
(Controller)

ECG-A
(Controller)

Safety
precautions

Dimensions: Motor bottom mounting

● EBR-04*D



Stroke code	0250	0300	0350	0400	
Stroke length (mm)	250	300	350	400	
L	502	552	602	652	
L1	455	505	555	605	
A	25	75	25	75	
M	2	2	3	3	
N	8	8	10	10	
P	225	275	325	375	
Weight (kg)	Without brake	2.3	2.5	2.6	2.8
	With brake	2.8	3.0	3.1	3.3

EBS
(With motor)

EBR
(With motor)

ECR
(Controller)

ECG-A
(Controller)

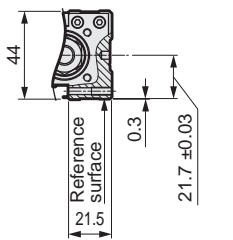
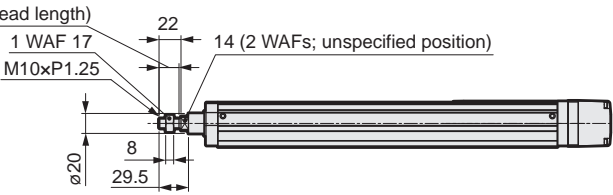
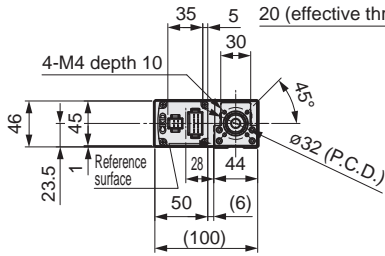
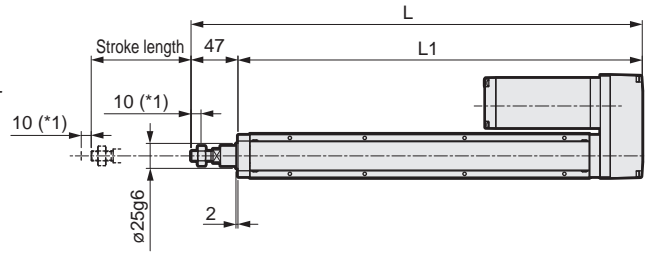
Safety
precautions

EBR-04**

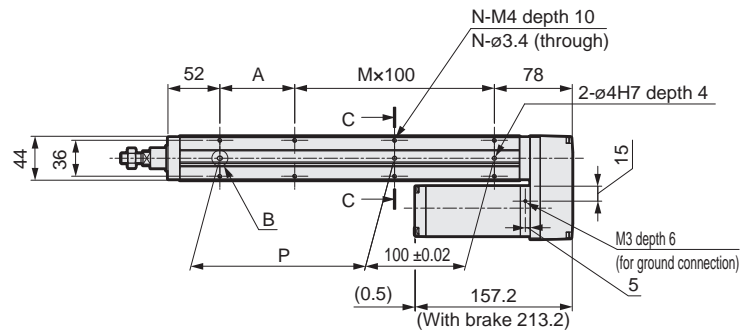
Dimensions: Motor left-side mounting

● EBR-04*L

*1 Operating range to the mechanical stopper



C-C cross-section (detail)



B part details

Stroke code	0050	0100	0150	0200	0250	0300	0350	0400
Stroke length (mm)	50	100	150	200	250	300	350	400
L	302	352	402	452	502	552	602	652
L1	255	305	355	405	455	505	555	605
A	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4
N	6	6	8	8	10	10	12	12
P	25	75	125	175	225	275	325	375
Weight (kg)	Without brake	1.6	1.8	1.9	2.1	2.3	2.6	2.8
	With brake	2.1	2.3	2.4	2.6	2.8	3.0	3.3

Safety precautions

Notes

EBS
(With motor)

EBR
(With motor)

ECR
(Controller)

ECG-A
(Controller)

Safety
precautions



Electric actuator Rod with built-in guide

EBR-05*E

Straight motor mounting

- 42 Stepper motor
- Battery-less absolute encoder
- Incremental encoder



How to order

EBR - 05 M E - 00 - 05 0300 N A N - C S03

A Body size

05	Body width 54 mm
----	------------------

B Applicable controller *1

M	ECR
G	ECG

C Motor mounting direction

E	Straight mounting
---	-------------------

D Mounting

00	Basic
FA	Rod side flange

E Screw lead

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

F Stroke

0050 to 0400	50 mm (In 50 mm increments) 400 mm
--------------	------------------------------------

H encoder *1

A	Battery-less absolute encoder (for ECR)
B	Battery-less absolute encoder (for ECG)
C	Incremental encoder (for ECG)

G Brake *2

N	None
B	Yes

I 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
R01	Movable cable 1 m
R03	Movable cable 3 m
R05	Movable cable 5 m
R10	Movable cable 10 m

*1 Select the controller from page 93 or page 105.
Select encoder "A" when an ECR controller is selected and "B" or "C" when an ECG controller is selected.
*2 Select "Yes" for vertical use.
*3 Refer to page 103 for ECR and page 116 for ECG relay cable dimensions.

Product subject to the EAR (EAR99)

Specifications

[EBR-05M (applicable controller ECR)]

Motor	<input type="checkbox"/> 42 Stepper motor				
Encoder type	Battery-less absolute encoder				
Drive method	Ball screw ϕ 12				
Stroke length mm	50 to 400				
Screw lead mm	2	5	10	20	
Max. load capacity kg	Horizontal	80 (80)	60 (60)	50 (50)	20 (20)
	Vertical	24 (24)	16.6 (15)	10 (6.6)	4.1 (4.1)
Operation speed range		2 to 130	6 to 330	12 to 600	25 to 800
		(80)	(275)	(500)	(700)
Maximum pressing force N		397	193	94	33
Press operation speed range mm/s		5 to 20	5 to 20	5 to 30	5 to 30
Repeatability mm		± 0.01			
Lost motion mm		0.1 or less			
Motor power supply voltage		24 VDC $\pm 10\%$ or 48 VDC $\pm 10\%$			
Motor section max. instantaneous current A		5.2			
Brake	Model, power supply voltage	Non-excitation operation, 24 VDC $\pm 10\%$			
	Power consumption W	7			
	Holding force N	471	188	94	47

*1 The values in () are at 24 VDC.
*2 Load capacity varies according to acceleration/deceleration and speed. Refer to page 88 for details.
*3 The maximum speed values in () are at 24 VDC.
*4 The maximum speed may decrease depending on the conditions.

[EBR-05G (applicable controller ECG)]

Motor	<input type="checkbox"/> 42 Stepper motor				
Encoder type	Battery-less absolute encoder Incremental encoder				
Drive method	Ball screw ϕ 12				
Stroke length mm	50 to 400				
Screw lead mm	2	5	10	20	
Max. load capacity kg	Horizontal	80.0	60.0	41.7	11.7
	Vertical	23.3	14.0	7.0	2.9
Operation speed range		2 to 90	6 to 300	12 to 500	25 to 700
Maximum pressing force N		550	220	110	55
Press 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			
Motor power supply voltage		24 VDC $\pm 10\%$			
Motor section max. instantaneous current A		2.7			
Brake	Model, power supply voltage	Non-excitation operation, 24 VDC $\pm 10\%$			
	Power consumption W	6.1			
	Holding force N	420	168	84	42

*1 Load capacity varies according to acceleration/deceleration and speed. Refer to page 90 for details.
*2 The maximum speed may decrease depending on the conditions.

[Common specifications]

Insulation resistance	10M Ω , 500 VDC
Withstand voltage	500 VAC for 1 minute
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
Degree of protection	IP40

*The operating ambient temperature of EBR-**G is 10°C to 40°C.

Stroke and max. speed

[EBR-05M (applicable controller ECR)]

(mm/s)

Thread lead	Power supply voltage	Stroke length			
		50 to 250	300	350	400
2	48 VDC	130	85	85	85
	24 VDC	80	80	80	80
5	48 VDC	330	210	210	210
	24 VDC	275	210	210	210
10	48 VDC	600	420	420	420
	24 VDC	500	420	420	420
20	48 VDC	800	800	800	800
	24 VDC	700	700	700	700

[EBR-05G (applicable controller ECG)]

(mm/s)

Thread lead	Power supply voltage	Stroke length			
		50 to 250	300	350	400
2	24 VDC	90	85	85	85
5	24 VDC	300	210	210	210
10	24 VDC	500	420	420	420
20	24 VDC	700	700	700	700

EBS
(With motor)

EBR
(With motor)

ECR
(Controller)

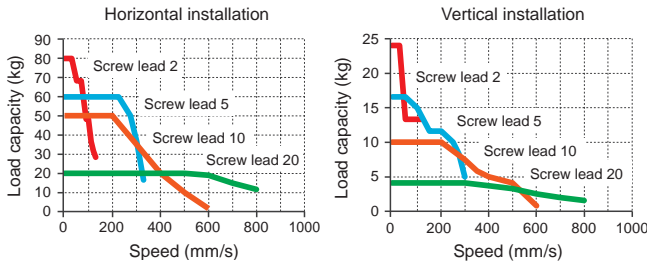
ECG-A
(Controller)

Safety
precautions

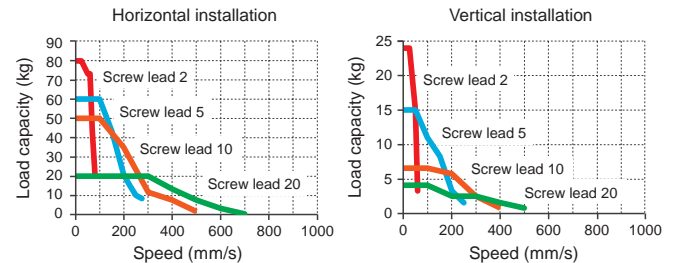
Speed and load capacity

[EBR-05M (applicable controller ECR)]

· At 48 VDC

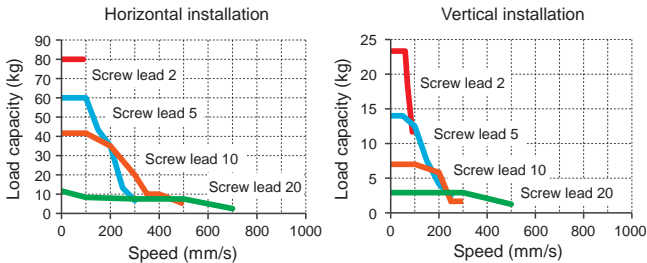


· At 24 VDC



[EBR-05G (applicable controller ECG)]

· At 24 VDC



* At acceleration of 0.3 G.

* Confirm each of the pages listed below for details.

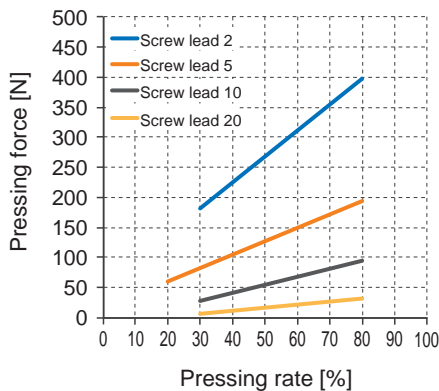
ECR: Page 88

ECG: Page 90

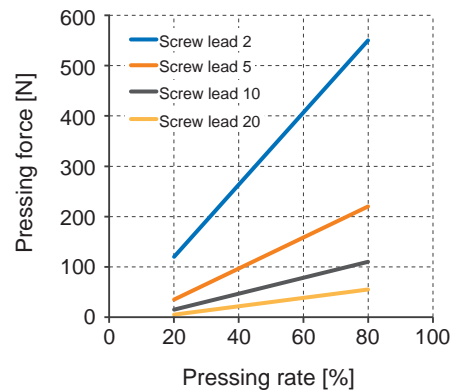
* Incorrectly applying a 48 VDC power supply could result in damage.

Pressing force

[EBR-05M (applicable controller ECR)]



[EBR-05G (applicable controller ECG)]



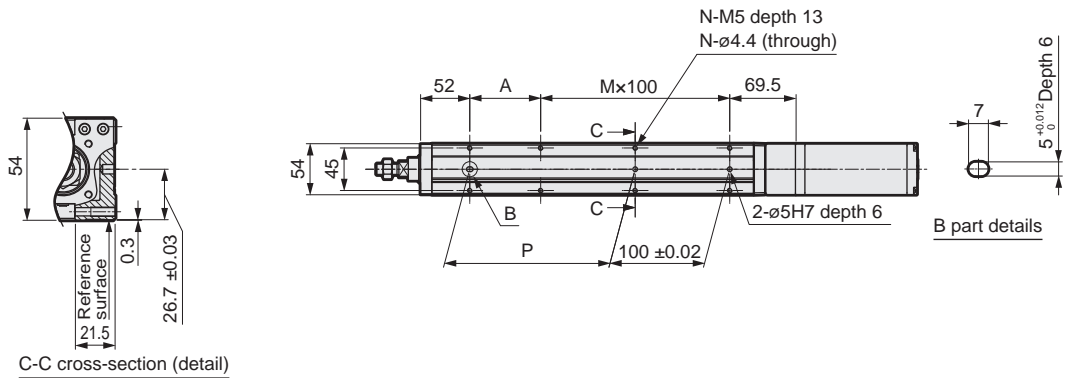
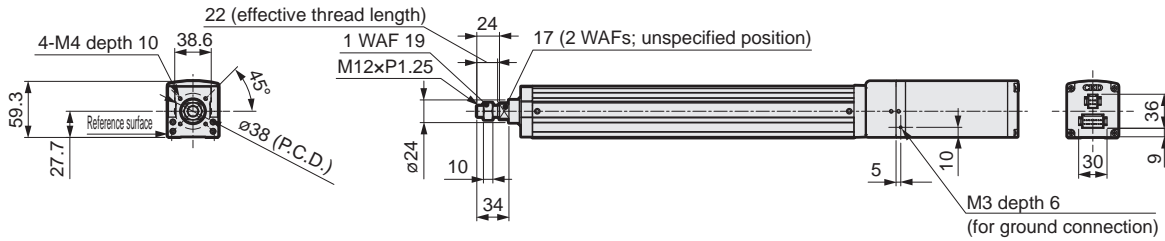
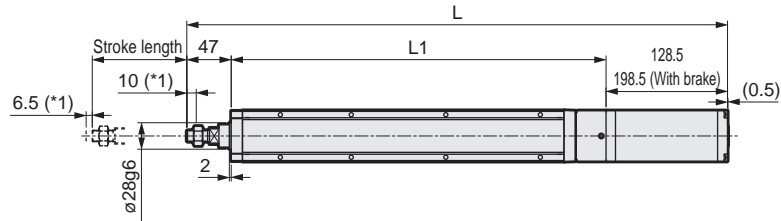
* The above pressing force is a reference value. Variation may occur according to conditions such as pressing speed.

EBR-05*E

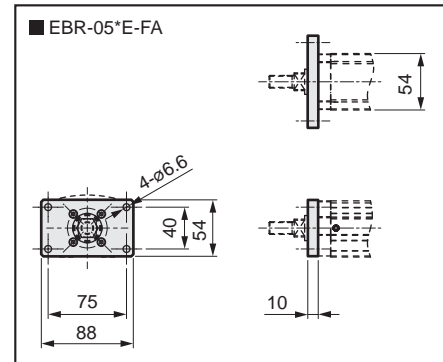
Dimensions

● EBR-05*E

*1 Operating range to the mechanical stopper



Stroke code	0050	0100	0150	0200	0250	0300	0350	0400
Stroke length (mm)	50	100	150	200	250	300	350	400
L	Without brake	422	472	522	572	622	672	722
	With brake	492	542	592	642	692	742	792
L1	246.5	296.5	346.5	396.5	446.5	496.5	546.5	596.5
A	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4
N	6	6	8	8	10	10	12	12
P	25	75	125	175	225	275	325	375
Weight (kg)	Without brake	2.5	2.7	2.9	3.1	3.3	3.5	3.7
	With brake	3.3	3.5	3.7	3.9	4.1	4.3	4.5



EBS
(With motor)

EBR
(With motor)

ECR
(Controller)

ECG-A
(Controller)

Safety
precautions

Notes

EBS
(With motor)

EBR
(With motor)

ECR
(Controller)

ECG-A
(Controller)

Safety
precautions



Electric actuator Rod with built-in guide

EBR-05**

Motor side mounting (left, right, bottom)

- 42 Stepper motor
- Battery-less absolute encoder
- Incremental encoder



How to order

EBR - 05 M R - 00 - 05 0300 N A N - C S03

A Body size

05	Body width 54 mm
----	------------------

B Applicable controller *1

M	ECR
G	ECG

C Motor mounting direction *2

R	Right mounting
D	Bottom mounting
L	Left mounting

D Mounting

00	Basic
FA	Rod side flange

E Screw lead

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

F Stroke *2

0050 to 0400	50 mm (In 50 mm increments) 400 mm
--------------	------------------------------------

H encoder *1

A	Battery-less absolute encoder (for ECR)
B	Battery-less absolute encoder (for ECG)
C	Incremental encoder (for ECG)

G Brake *3

N	None
B	Yes

I 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
R01	Movable cable 1 m
R03	Movable cable 3 m
R05	Movable cable 5 m
R10	Movable cable 10 m

*1 Select the controller from page 93 or page 105.

Select encoder "A" when an ECR controller is selected and "B" or "C" when an ECG controller is selected.

*2 If "D" is selected for the motor mounting direction, select a stroke length from "0250 (250 mm)" to "0400 (400 mm)".

*3 Select "Yes" for vertical use.

*4 Refer to page 103 for ECR and page 116 for ECG relay cable dimensions.

Product subject to the EAR (EAR99)

Specifications

[EBR-05M (applicable controller ECR)]

Motor	<input type="checkbox"/> 42 Stepper motor				
Encoder type	Battery-less absolute encoder				
Drive method	Ball screw ø12				
Stroke length mm	50 to 400				
Screw lead mm	2	5	10	20	
Max. load capacity kg	Horizontal	80 (80)	60 (60)	36.6 (36.6)	18.3 (18.3)
	Vertical	24 (24)	16.6 (15)	8.3 (6.6)	4.1 (4.1)
Operation speed range	mm/s	2 to 120 (80)	6 to 330 (250)	12 to 500 (400)	25 to 800 (700)
Maximum pressing force N		397	193	94	33
Press operation speed range mm/s		5 to 20	5 to 20	5 to 30	5 to 30
Repeatability mm		±0.01			
Lost motion mm		0.1 or less			
Motor power supply voltage		24 VDC ±10% or 48 VDC ±10%			
Motor section max. instantaneous current A		5.2			
Brake	Model, power supply voltage	Non-excitation operation, 24 VDC ±10%			
	Power consumption W	7			
	Holding force N	471	188	94	47

*1 The values in () are at 24 VDC.

*2 Load capacity varies according to acceleration/deceleration and speed. Refer to page 88 for details.

*3 The maximum speed values in () are at 24 VDC.

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

[EBR-05G (applicable controller ECG)]

Motor	<input type="checkbox"/> 42 Stepper motor				
Encoder type	Battery-less absolute encoder Incremental encoder				
Drive method	Ball screw ø12				
Stroke length mm	50 to 400				
Screw lead mm	2	5	10	20	
Max. load capacity kg	Horizontal	80.0	60.0	38.3	11.7
	Vertical	23.3	14.0	6.7	1.7
Operation speed range	mm/s	2 to 90	6 to 250	12 to 400	25 to 600
Maximum pressing force N		550	220	110	55
Press 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			
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

*1 Load capacity varies according to acceleration/deceleration and speed. Refer to page 90 for details.

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

[Common specifications]

Insulation resistance	10MΩ, 500 VDC
Withstand voltage	500 VAC for 1 minute
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
Degree of protection	IP40

*The operating ambient temperature of EBR-**G is 10°C to 40°C.

Stroke and max. speed

[EBR-05M (applicable controller ECR)]

(mm/s)

Thread lead	Power supply voltage	Stroke length			
		50 to 250	300	350	400
2	48 VDC	120	85	85	85
	24 VDC	80	80	80	80
5	48 VDC	330	210	210	210
	24 VDC	250	210	210	210
10	48 VDC	500	420	420	420
	24 VDC	400	400	400	400
20	48 VDC	800	800	800	800
	24 VDC	700	700	700	700

[EBR-05G (applicable controller ECG)]

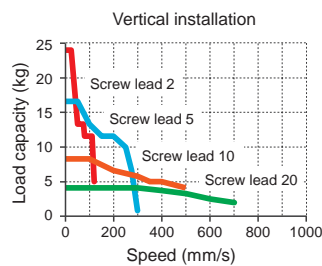
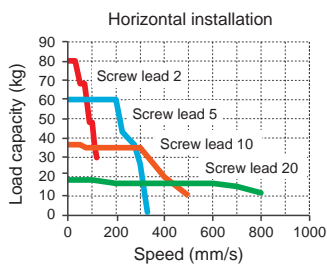
(mm/s)

Thread lead	Power supply voltage	Stroke length			
		50 to 250	300	350	400
2	24 VDC	90	85	85	85
5	24 VDC	250	210	210	210
10	24 VDC	400	400	400	400
20	24 VDC	600	600	600	600

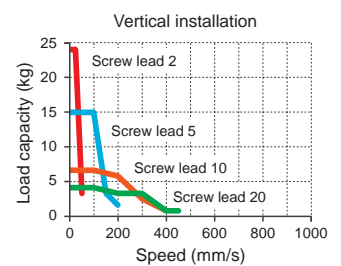
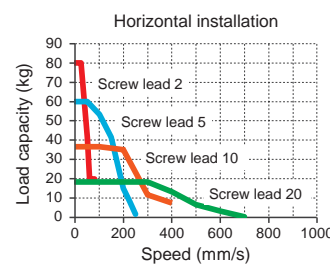
Speed and load capacity

[EBR-05M (applicable controller ECR)]

· At 48 VDC

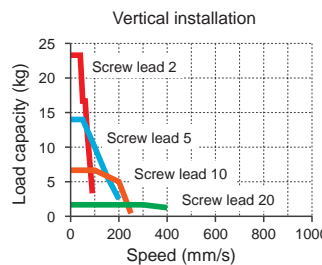
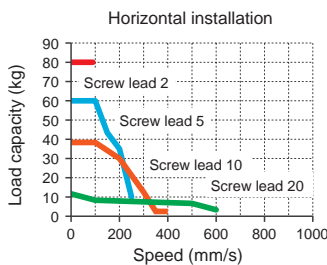


· At 24 VDC



[EBR-05G (applicable controller ECG)]

· At 24 VDC



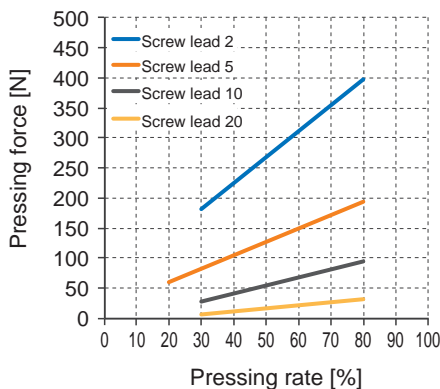
* Incorrectly applying a 48 VDC power supply could result in damage.

* At acceleration of 0.3 G.

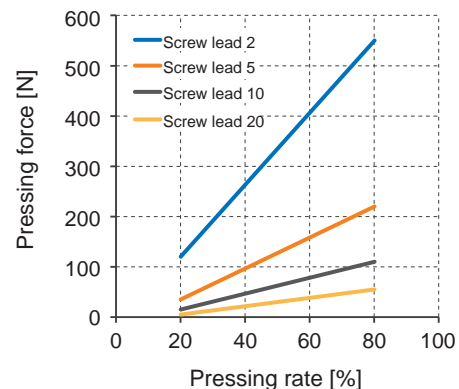
* Confirm each of the pages listed below for details.
ECR: Page 88
ECG: Page 90

Pressing force

[EBR-05M (applicable controller ECR)]



[EBR-05G (applicable controller ECG)]



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

EBS
(With motor)

EBR
(With motor)

ECR
(Controller)

ECG-A
(Controller)

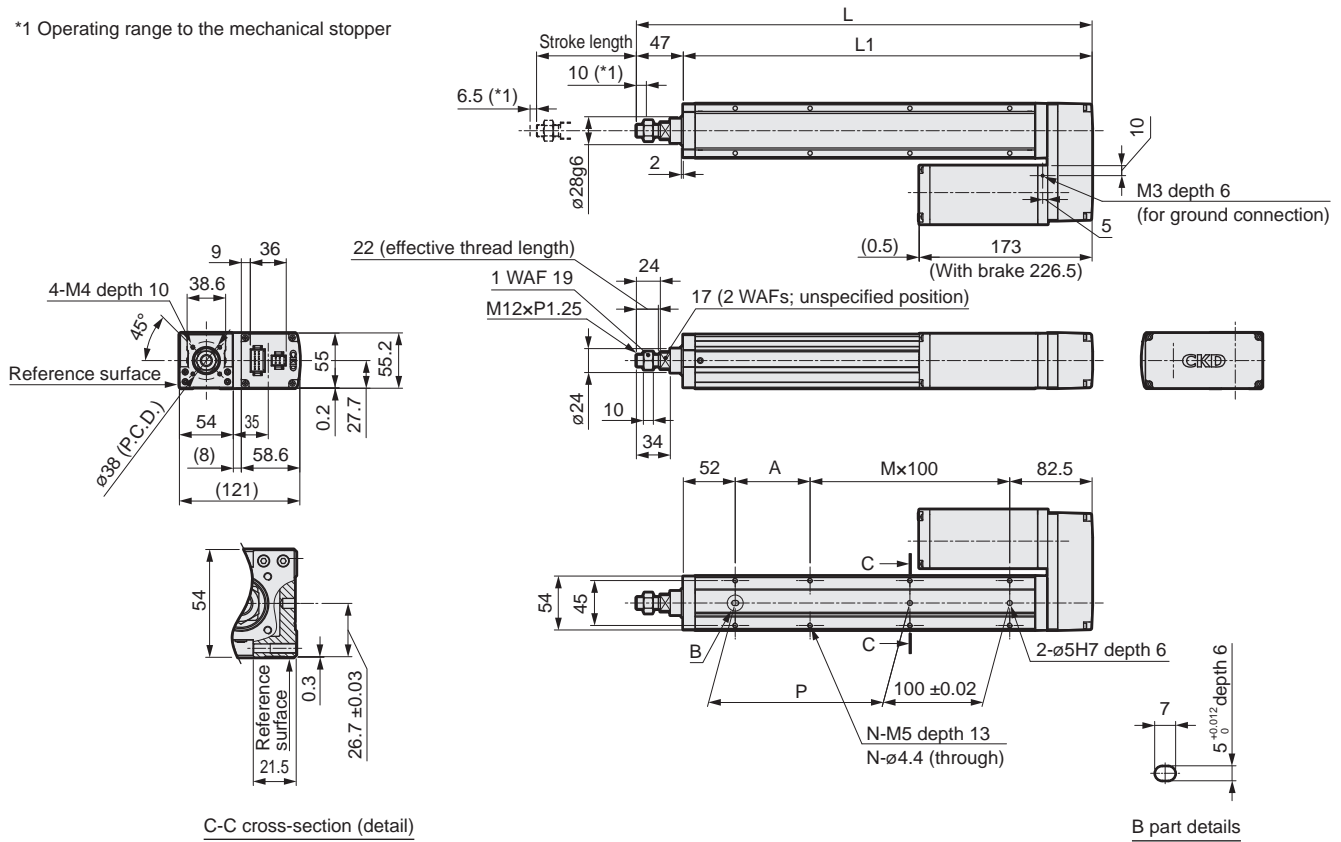
Safety
precautions

EBR-05**

Dimensions: Motor right-side mounting

● EBR-05*R

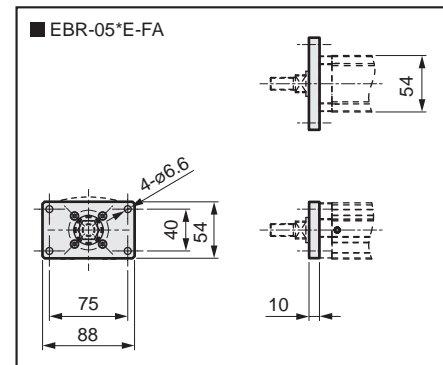
*1 Operating range to the mechanical stopper



C-C cross-section (detail)

B part details

Stroke code	0050	0100	0150	0200	0250	0300	0350	0400
Stroke length (mm)	50	100	150	200	250	300	350	400
L	306.5	356.5	406.5	456.5	506.5	556.5	606.5	656.5
L1	259.5	309.5	359.5	409.5	459.5	509.5	559.5	609.5
A	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4
N	6	6	8	8	10	10	12	12
P	25	75	125	175	225	275	325	375
Weight (kg)	Without brake	2.4	2.5	2.6	2.8	3.1	3.2	3.5
	With brake	3.5	3.6	3.7	3.9	4.2	4.3	4.6



EBS
(With motor)

EBR
(With motor)

ECR
(Controller)

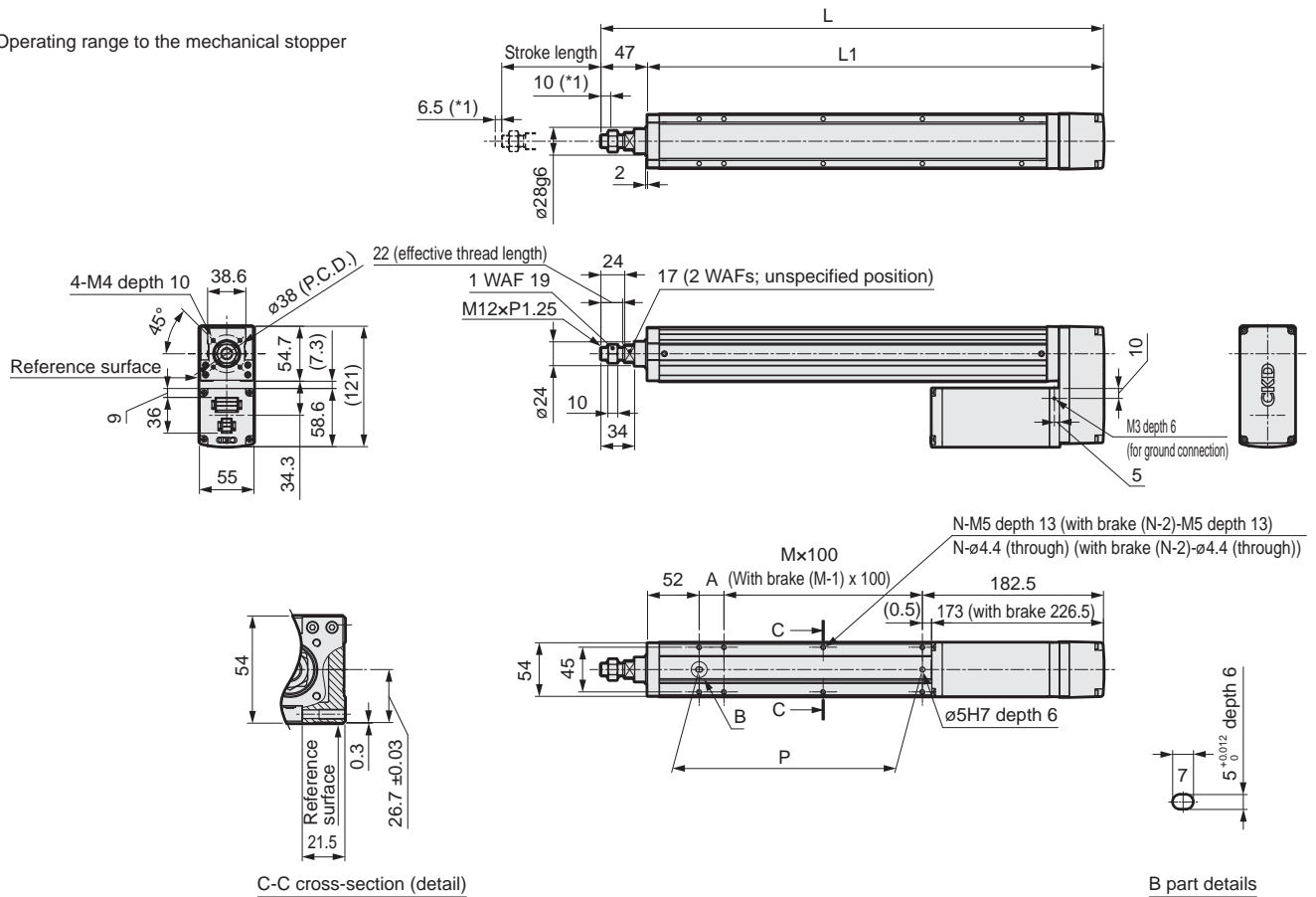
ECG-A
(Controller)

Safety
precautions

Dimensions: Motor bottom mounting

● EBR-05*D

*1 Operating range to the mechanical stopper



Stroke code	0250	0300	0350	0400	
Stroke length (mm)	250	300	350	400	
L	506.5	556.5	606.5	656.5	
L1	459.5	509.5	559.5	609.5	
A	25	75	25	75	
M	2	2	3	3	
N	8	8	10	10	
P	225	275	325	375	
Weight (kg)	Without brake	3.1	3.2	3.2	3.5
	With brake	4.2	4.3	4.3	4.6

EBS
(With motor)

EBR
(With motor)

ECR
(Controller)

ECG-A
(Controller)

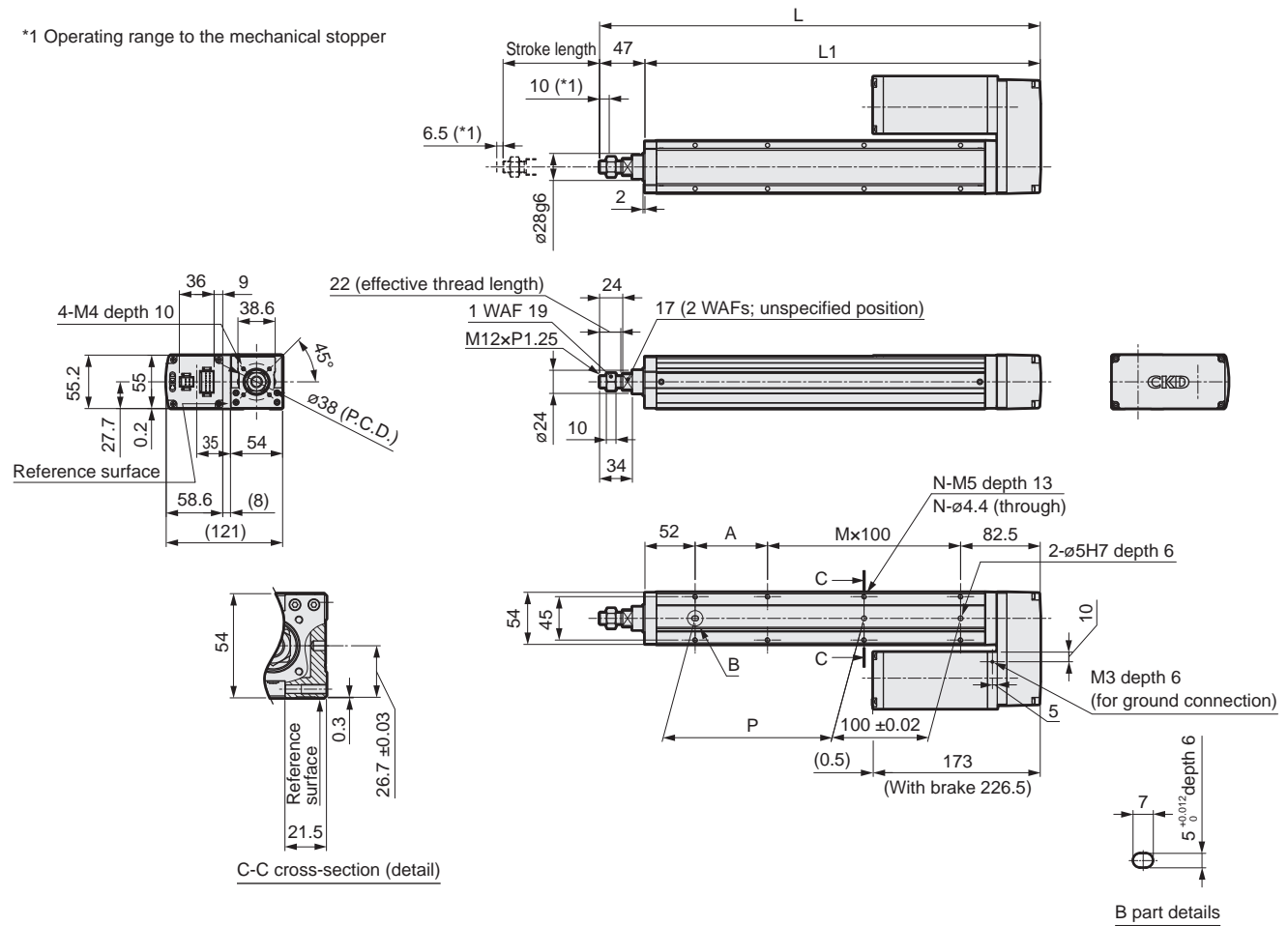
Safety
precautions

EBR-05**

Dimensions: Motor left-side mounting

● EBR-05*L

*1 Operating range to the mechanical stopper



Stroke code	0050	0100	0150	0200	0250	0300	0350	0400
Stroke length (mm)	50	100	150	200	250	300	350	400
L	306.5	356.5	406.5	456.5	506.5	556.5	606.5	656.5
L1	259.5	309.5	359.5	409.5	459.5	509.5	559.5	609.5
A	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4
N	6	6	8	8	10	10	12	12
P	25	75	125	175	225	275	325	375
Weight (kg)	Without brake	2.4	2.5	2.6	2.8	3.1	3.2	3.5
	With brake	3.5	3.6	3.7	3.9	4.2	4.3	4.6

Safety precautions

Notes

EBS (With motor)
EBR (With motor)
ECR (Controller)
ECG-A (Controller)
Safety precautions



Electric actuator Rod with built-in guide

EBR-08*E

Straight motor mounting

- 56 Stepper motor
- Battery-less absolute encoder
- Incremental encoder



How to order

EBR - 08 M E - 00 - 05 0300 N A N - C S03

A Body size

08	Body width 82 mm
----	------------------

B Applicable controller *1

M	ECR
G	ECG

C Motor mounting direction

E	Straight mounting
---	-------------------

D Mounting

00	Basic
FA	Rod side flange

E Screw lead

05	5 mm
10	10 mm
20	20 mm

F Stroke

0050 to 0700	50 mm (In 50 mm increments) 700 mm
--------------	------------------------------------

H encoder *1

A	Battery-less absolute encoder (for ECR)
B	Battery-less absolute encoder (for ECG)
C	Incremental encoder (for ECG)

G Brake *2

N	None
B	Yes

I 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
R01	Movable cable 1 m
R03	Movable cable 3 m
R05	Movable cable 5 m
R10	Movable cable 10 m

*1 Select the controller from page 93 or page 105.

Select encoder "A" when an ECR controller is selected and "B" or "C" when an ECG controller is selected.

*2 Select "Yes" for vertical use.

*3 Refer to page 103 for ECR and page 116 for ECG relay cable dimensions.

Product subject to the EAR (EAR99)

Specifications

[EBR-08M (applicable controller ECR)]

Motor	<input type="checkbox"/> 56 Stepper motor			
Encoder type	Battery-less absolute encoder			
Drive method	Ball screw ϕ 16			
Stroke length mm	50 to 700			
Screw lead mm	5	10	20	
Max. load capacity kg *1 *2	Horizontal	80 (80)	70 (70)	35 (23.3)
	Vertical	38.3 (35)	18.3 (15)	11.6 (10)
Operation speed range *3 *4 mm/s		6 to 225 (150)	12 to 450 (300)	25 to 900 (500)
		1050	468	213
Maximum pressing force N	1050	468	213	
Press operation speed range mm/s	5 to 30	5 to 30	5 to 30	
Repeatability mm	± 0.01			
Lost motion mm	0.1 or less			
Motor power supply voltage	24 VDC $\pm 10\%$ or 48 VDC $\pm 10\%$			
Motor section max. instantaneous current A	8.6			
Brake	Model, power supply voltage	Non-excitation operation, 24 VDC $\pm 10\%$		
	Power consumption W	8		
	Holding force N	754	377	188

*1 The values in () are at 24 VDC.

*2 Load capacity varies according to acceleration/deceleration and speed. Refer to page 88 for details.

*3 The maximum speed values in () are at 24 VDC.

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

[EBR-08G (applicable controller ECG)]

Motor	<input type="checkbox"/> 56 Stepper motor			
Encoder type	Battery-less absolute encoder Incremental encoder			
Drive method	Ball screw ϕ 16			
Stroke length mm	50 to 700			
Screw lead mm	5	10	20	
Max. load capacity kg *1	Horizontal	80.0	70.0	35.0
	Vertical	55.0	23.3	10.0
Operation speed range *2 mm/s	6 to 125	12 to 300	25 to 500	
Maximum pressing force N	965	482	241	
Press 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			
Motor power supply voltage	24 VDC $\pm 10\%$			
Motor section max. instantaneous current A	4.0			
Brake	Model, power supply voltage	Non-excitation operation, 24 VDC $\pm 10\%$		
	Power consumption W	7.2		
	Holding force N	768	384	192

*1 Load capacity varies according to acceleration/deceleration and speed. Refer to page 90 for details.

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

[Common specifications]

Insulation resistance	10M Ω , 500 VDC
Withstand voltage	500 VAC for 1 minute
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
Degree of protection	IP40

*The operating ambient temperature of EBR-**G is 10°C to 40°C.

Stroke and max. speed

[EBR-08M (applicable controller ECR)]

(mm/s)

Thread lead	Power supply voltage	Stroke length										
		50 to 200	250	300	350	400	450	500	550	600	650	700
5	48 VDC	225	225	225	200	200	200	200	200	200	200	200
	24 VDC	150	150	150	150	150	150	150	150	150	150	150
10	48 VDC	450	450	450	400	400	400	400	400	400	400	400
	24 VDC	300	300	300	300	300	300	300	300	300	300	300
20	48 VDC	900	600	600	600	600	600	600	600	600	600	600
	24 VDC	500	500	500	500	500	500	500	500	500	500	500

[EBR-08G (applicable controller ECG)]

(mm/s)

Thread lead	Power supply voltage	Stroke length
		50 to 700
5	24 VDC	125
10	24 VDC	300
20	24 VDC	500

EBS
(With motor)

EBR
(With motor)

ECR
(Controller)

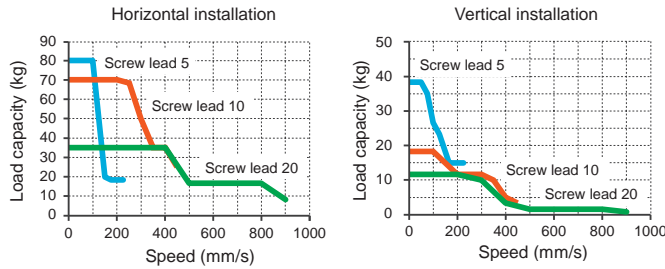
ECG-A
(Controller)

Safety
precautions

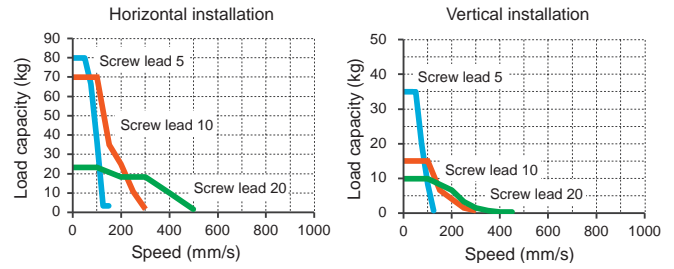
Speed and load capacity

[EBR-08M (applicable controller ECR)]

· At 48 VDC

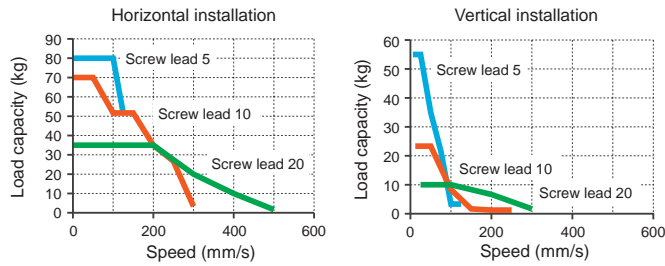


· At 24 VDC



[EBR-08G (applicable controller ECG)]

· At 24 VDC



* Incorrectly applying a 48 VDC power supply could result in damage.

* At acceleration of 0.3 G.

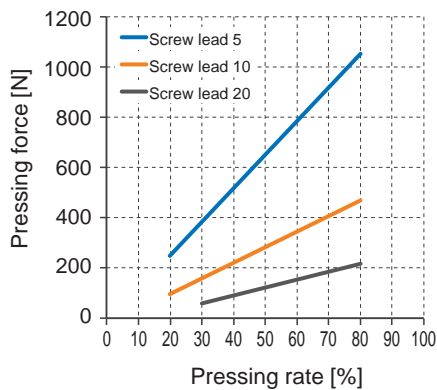
* Confirm each of the pages listed below for details.

ECR: Page 88

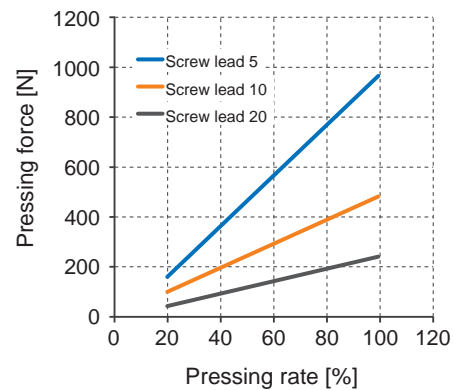
ECG: Page 90

Pressing force

[EBR-08M (applicable controller ECR)]



[EBR-08G (applicable controller ECG)]



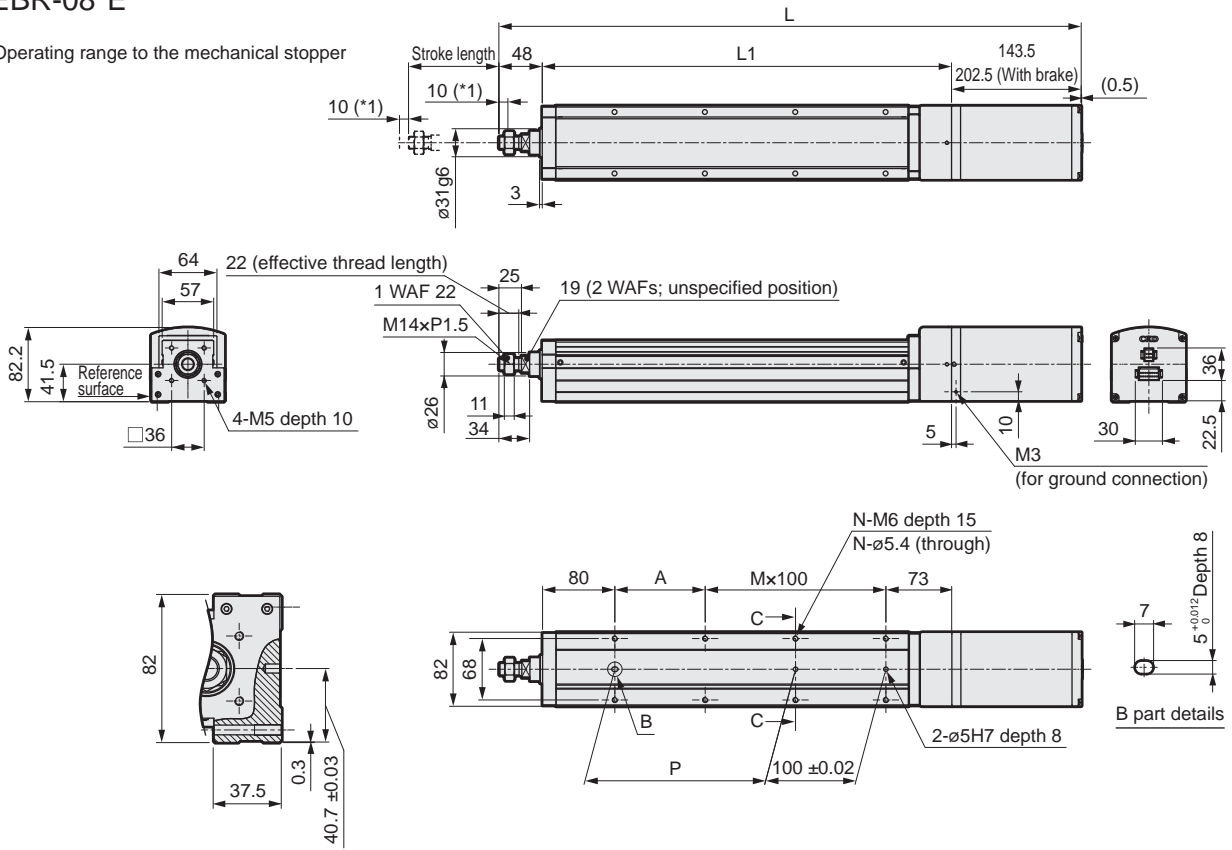
* The above pressing force is a reference value. Variation may occur according to conditions such as pressing speed.

EBR-08*E

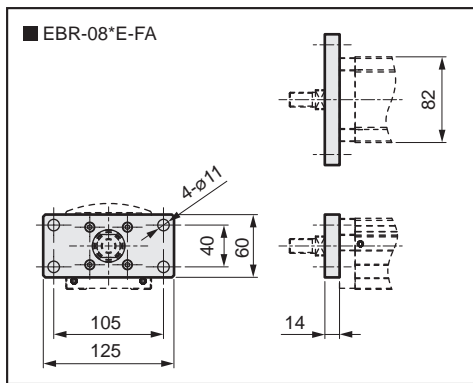
Dimensions

● EBR-08*E

*1 Operating range to the mechanical stopper



C-C cross-section (detail)



Stroke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700
Stroke length (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700
L	Without brake	494.5	544.5	594.5	644.5	694.5	744.5	794.5	844.5	894.5	944.5	1044.5	1094.5	1144.5
	With brake	553.5	603.5	653.5	703.5	753.5	803.5	853.5	903.5	953.5	1003.5	1053.5	1103.5	1153.5
L1	303	353	403	453	503	553	603	653	703	753	803	853	903	953
A	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
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700
Weight (kg)	Without brake	6.2	6.6	7.0	7.3	7.7	8.1	8.5	8.8	9.2	9.6	10.3	10.7	11.0
	With brake	7.5	7.9	8.3	8.6	9.0	9.4	9.8	10.1	10.5	10.9	11.6	12.0	12.3

Notes

EBS
(With motor)

EBR
(With motor)

ECR
(Controller)

ECG-A
(Controller)

Safety
precautions



Electric actuator Rod with built-in guide

EBR-08**

Motor side mounting (left, right, bottom)

- 56 Stepper motor
- Battery-less absolute encoder
- Incremental encoder



How to order

EBR - 08 M R - 00 - 05 0300 N A N - C S03

A Body size

08	Body width 82 mm
-----------	------------------

B Applicable controller *1

M	ECR
G	ECG

C Motor mounting direction *2

R	Right mounting
D	Bottom mounting
L	Left mounting

E Screw lead

05	5 mm
10	10 mm
20	20 mm

D Mounting

00	Basic
FA	Rod side flange

F Stroke *2

0050 to 0700	50 mm (In 50 mm increments) 700 mm
---------------------	------------------------------------

H encoder *1

A	Battery-less absolute encoder (for ECR)
B	Battery-less absolute encoder (for ECG)
C	Incremental encoder (for ECG)

G Brake *3

N	None
B	Yes

I 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
R01	Movable cable 1 m
R03	Movable cable 3 m
R05	Movable cable 5 m
R10	Movable cable 10 m

*1 Select the controller from page 93 or page 105.
 Select encoder "A" when an ECR controller is selected and "B" or "C" when an ECG controller is selected.
 *2 If "D" is selected for the motor mounting direction, select a stroke length from "0250 (250 mm)" to "0700 (700 mm)".
 *3 Select "Yes" for vertical use.
 *4 Refer to page 103 for ECR and page 116 for ECG relay cable dimensions.

Product subject to the EAR (EAR99)

Specifications

[EBR-08M (applicable controller ECR)]

Motor	<input type="checkbox"/> 56 Stepper motor			
Encoder type	Battery-less absolute encoder			
Drive method	Ball screw ø16			
Stroke length mm	50 to 700			
Screw lead mm	5	10	20	
Max. load capacity kg *1 *2	Horizontal	80 (80)	70 (70)	35 (23.3)
	Vertical	38.3 (35)	18.3 (15)	8.3 (8.3)
Operation speed range *3 *4 mm/s		6 to 225 (100)	12 to 450 (300)	25 to 700 (500)
Maximum pressing force N	1050	468	213	
Press operation speed range mm/s	5 to 30	5 to 30	5 to 30	
Repeatability mm	±0.01			
Lost motion mm	0.1 or less			
Motor power supply voltage	24 VDC ±10% or 48 VDC ±10%			
Motor section max. instantaneous current A	8.6			
Brake	Model, power supply voltage	Non-excitation operation, 24 VDC ±10%		
	Power consumption W	8		
	Holding force N	754	377	188

*1 The values in () are at 24 VDC.
 *2 Load capacity varies according to acceleration/deceleration and speed. Refer to page 88 for details.
 *3 The maximum speed values in () are at 24 VDC.
 *4 The maximum speed may decrease depending on the conditions.

[EBR-08G (applicable controller ECG)]

Motor	<input type="checkbox"/> 56 Stepper motor			
Encoder type	Battery-less absolute encoder Incremental encoder			
Drive method	Ball screw ø16			
Stroke length mm	50 to 700			
Screw lead mm	5	10	20	
Max. load capacity kg *1	Horizontal	80.0	70.0	35.0
	Vertical	55.0	20.0	8.3
Operation speed range *2 mm/s		6 to 125	12 to 250	25 to 400
Maximum pressing force N	965	482	241	
Press 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			
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

*1 Load capacity varies according to acceleration/deceleration and speed. Refer to page 90 for details.
 *2 The maximum speed may decrease depending on the conditions.

[Common specifications]

Insulation resistance	10MΩ, 500 VDC
Withstand voltage	500 VAC for 1 minute
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
Degree of protection	IP40

*The operating ambient temperature for the EBR-**G is 10°C to 40°C.

Stroke and max. speed

[EBR-08M (applicable controller ECR)]

(mm/s)

Thread lead	Power supply voltage	Stroke length										
		50 to 200	250	300	350	400	450	500	550	600	650	700
5	48 VDC	225	225	225	200	200	200	200	200	200	200	200
	24 VDC	100	100	100	100	100	100	100	100	100	100	100
10	48 VDC	450	450	450	400	400	400	400	400	400	400	400
	24 VDC	300	300	300	300	300	300	300	300	300	300	300
20	48 VDC	700	600	600	600	600	600	600	600	600	600	600
	24 VDC	500	500	500	500	500	500	500	500	500	500	500

[EBR-08G (applicable controller ECG)]

(mm/s)

Thread lead	Power supply voltage	Stroke length
		50 to 700
5	24 VDC	125
10	24 VDC	250
20	24 VDC	400

EBS
(With motor)

EBR
(With motor)

ECR
(Controller)

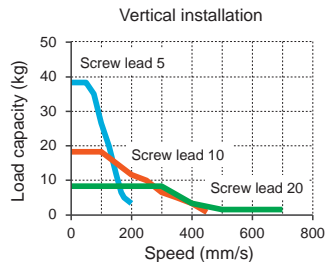
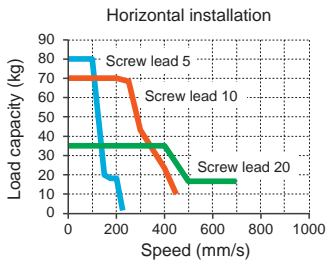
ECG-A
(Controller)

Safety
precautions

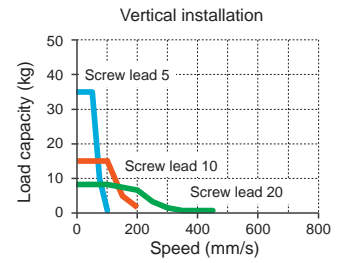
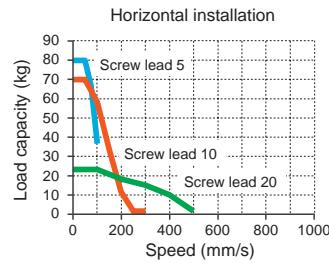
Speed and load capacity

[EBR-08M (applicable controller ECR)]

· At 48 VDC

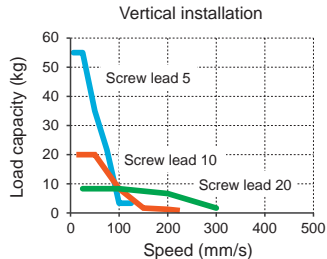
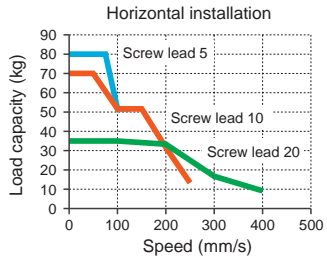


· At 24 VDC



[EBR-08G (applicable controller ECG)]

· At 24 VDC



* At acceleration of 0.3 G.

* Confirm each of the pages listed below for details.

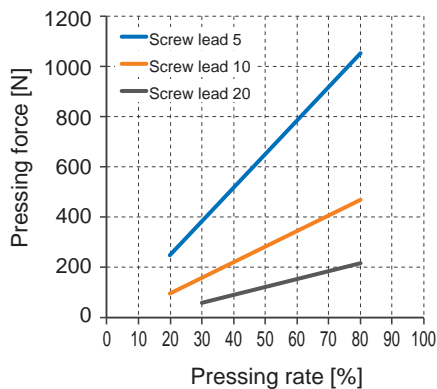
ECR: Page 88

ECG: Page 90

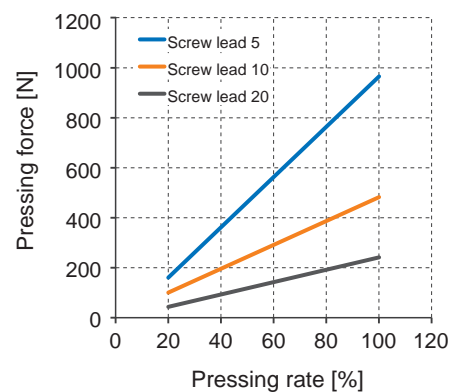
* Incorrectly applying a 48 VDC power supply could result in damage.

Pressing force

[EBR-08M (applicable controller ECR)]



[EBR-08G (applicable controller ECG)]



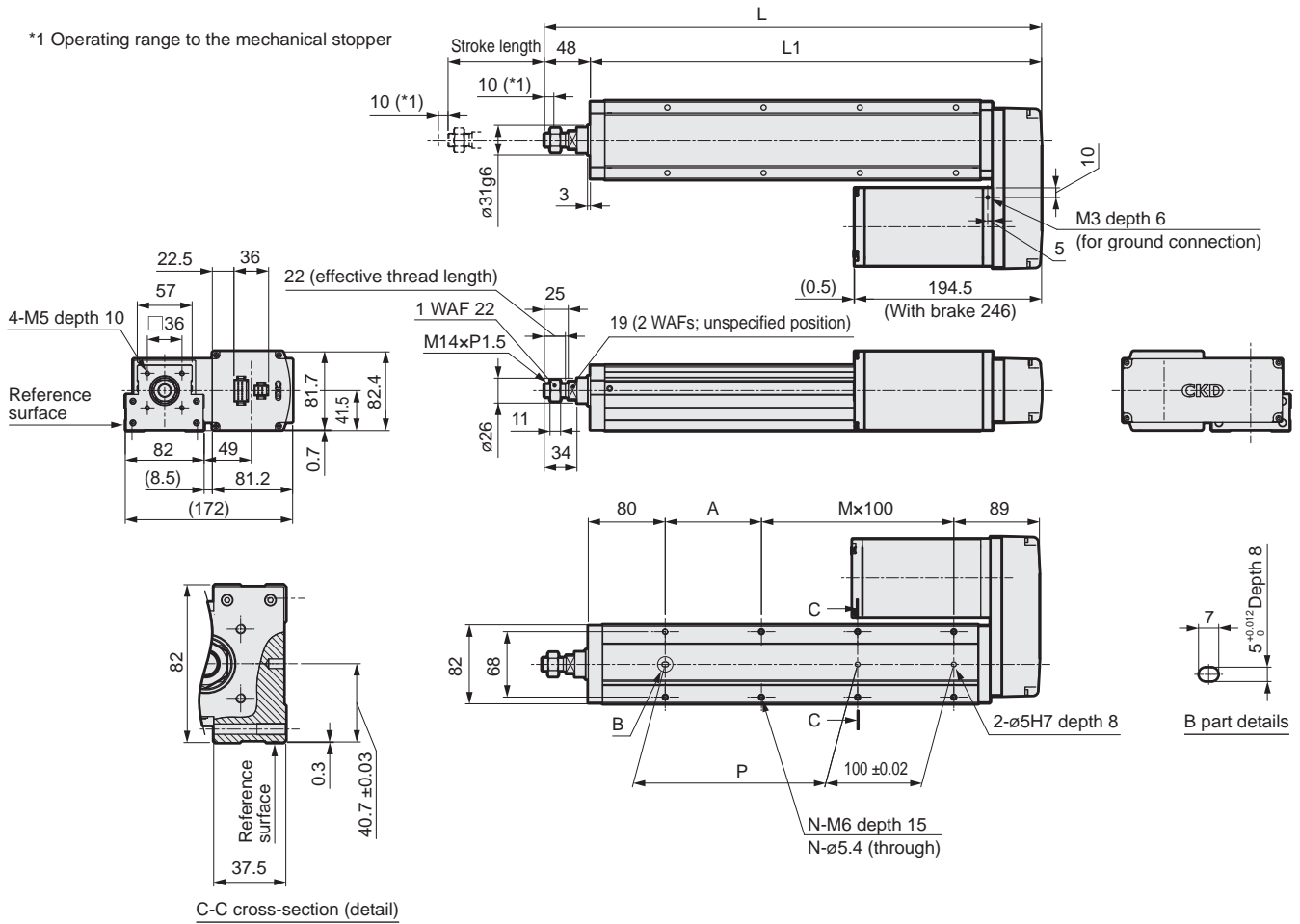
* The above pressing force is a reference value. Variation may occur according to conditions such as pressing speed.

EBR-08**

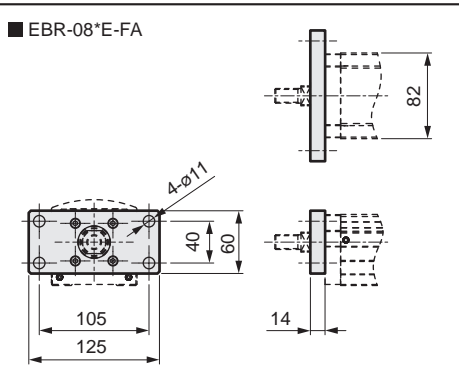
Dimensions: Motor right-side mounting

● EBR-08*R

*1 Operating range to the mechanical stopper



C-C cross-section (detail)

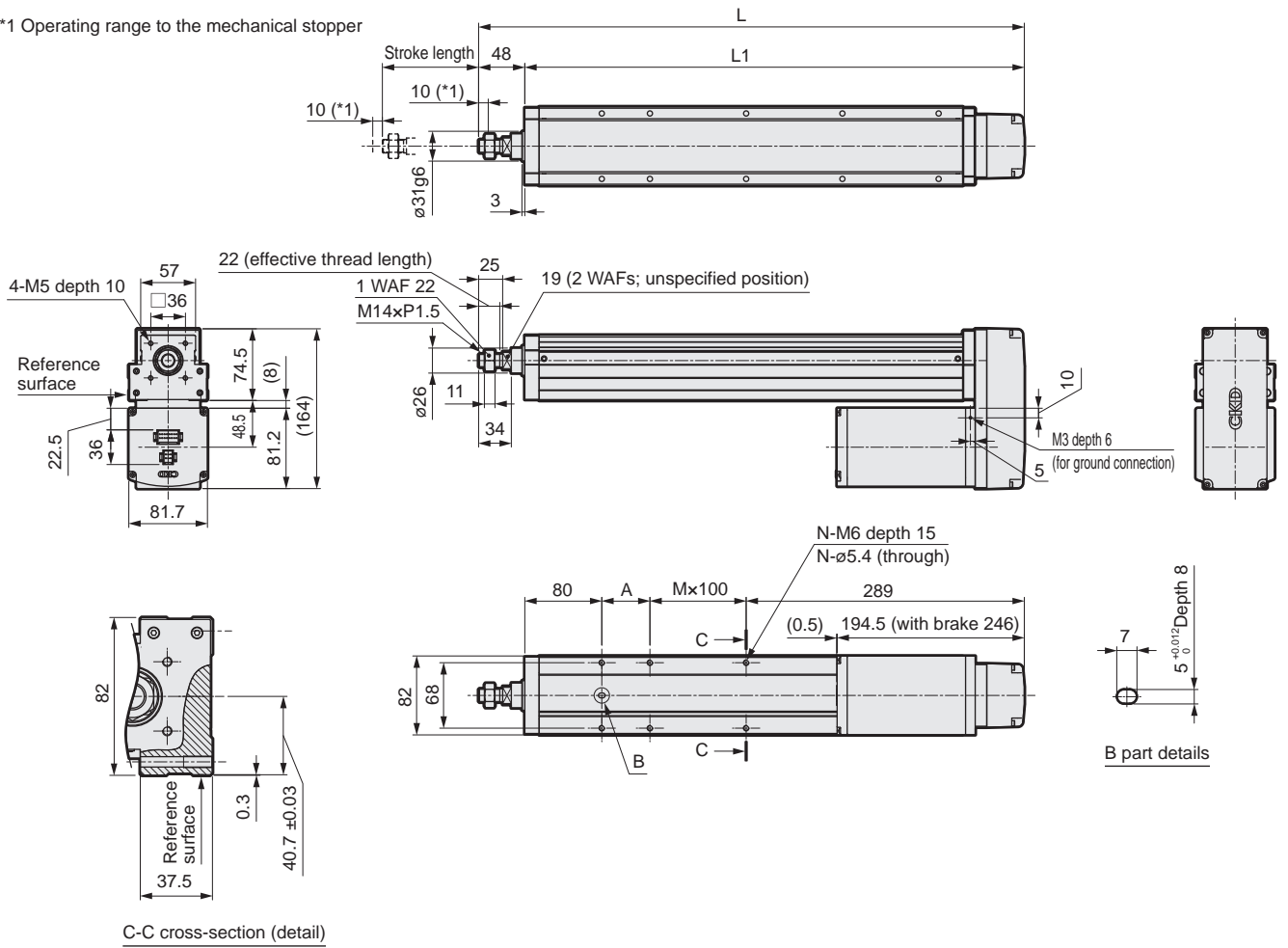


Stroke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	
Stroke length (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	
L	367	417	467	517	567	617	667	717	767	817	867	917	967	1017	
L1	319	369	419	469	519	569	619	669	719	769	819	869	919	969	
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	
Weight (kg)	Without brake	5.9	6.3	6.7	7.0	7.3	7.7	8.0	8.3	8.6	8.9	9.4	9.7	10.1	10.4
	With brake	7.2	7.6	8.0	8.3	8.6	9.0	9.3	9.6	9.9	10.2	10.7	11.0	11.4	11.7

Dimensions: Motor bottom mounting

● EBR-08*D

*1 Operating range to the mechanical stopper



Stroke code	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	
Stroke length (mm)	250	300	350	400	450	500	550	600	650	700	
L	567	617	667	717	767	817	867	917	967	1017	
L1	519	569	619	669	719	769	819	869	919	969	
A	50	100	50	100	50	100	50	100	50	100	
M	1	1	2	2	3	3	4	4	5	5	
N	6	6	8	8	10	10	12	12	14	14	
Weight (kg)	Without brake	7.3	7.7	8.0	8.3	8.6	8.9	9.4	9.7	10.1	10.4
	With brake	8.6	9.0	9.3	9.6	9.9	10.2	10.7	11.0	11.4	11.7

EBS
(With motor)

EBR
(With motor)

ECR
(Controller)

ECG-A
(Controller)

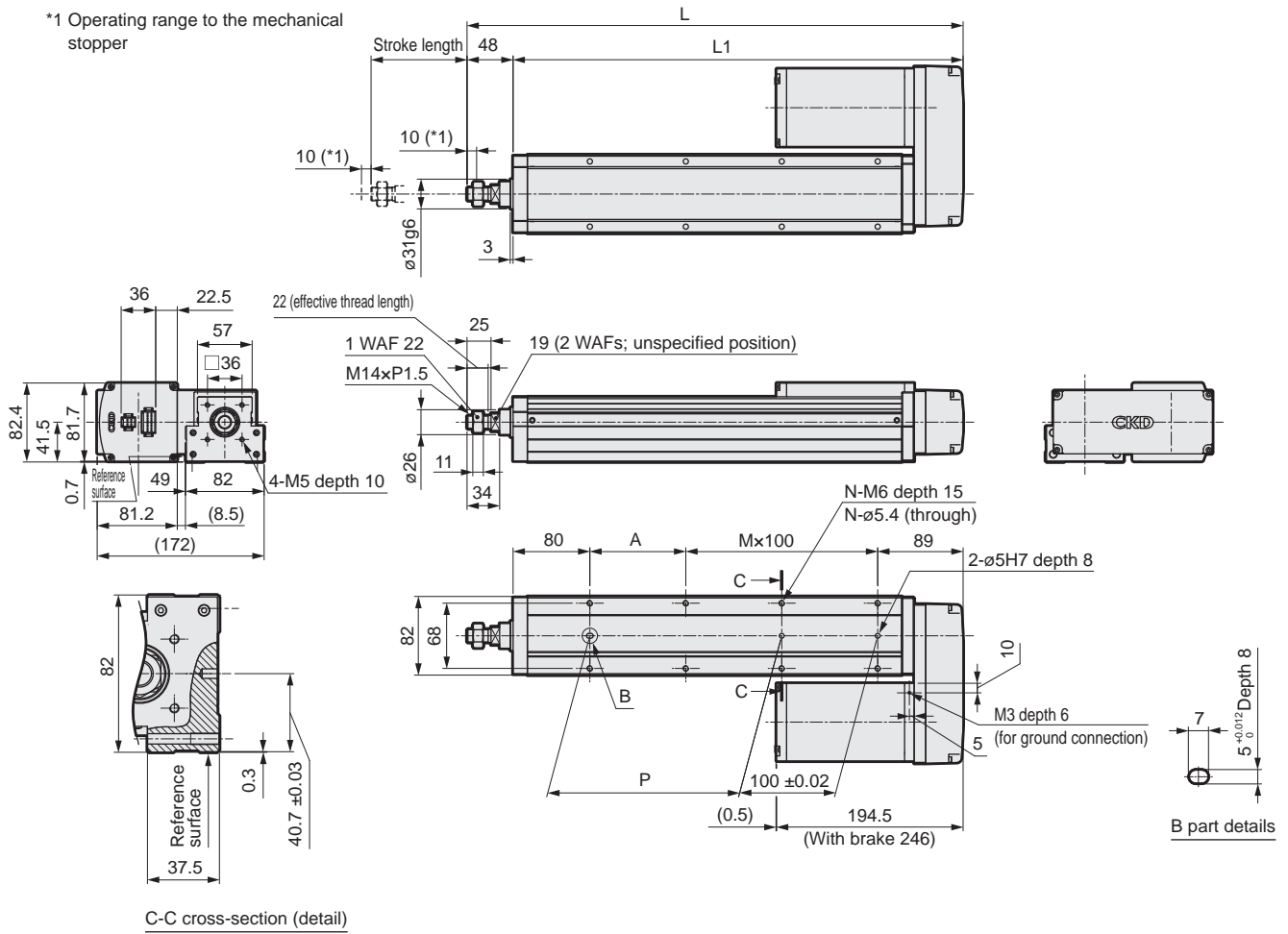
Safety
precautions

EBR-08**

Dimensions: Motor left-side mounting

● EBR-08*L

*1 Operating range to the mechanical stopper



Stroke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	
Stroke length (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	
L	367	417	467	517	567	617	667	717	767	817	867	917	967	1017	
L1	319	369	419	469	519	569	619	669	719	769	819	869	919	969	
A	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	
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	
Weight (kg)	Without brake	5.9	6.3	6.7	7.0	7.3	7.7	8.0	8.3	8.6	8.9	9.4	9.7	10.1	10.4
	With brake	7.2	7.6	8.0	8.3	8.6	9.0	9.3	9.6	9.9	10.2	10.7	11.0	11.4	11.7

Notes

EBS
(With motor)

EBR
(With motor)

ECR
(Controller)

ECG-A
(Controller)

Safety
precautions