

EBR-M




Rod with built-in guide

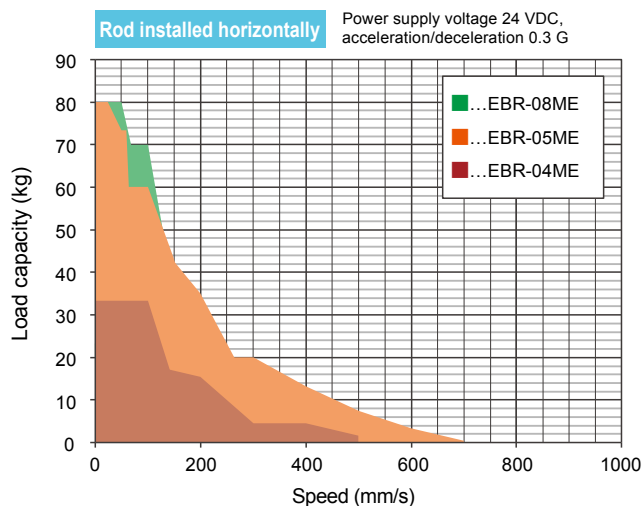
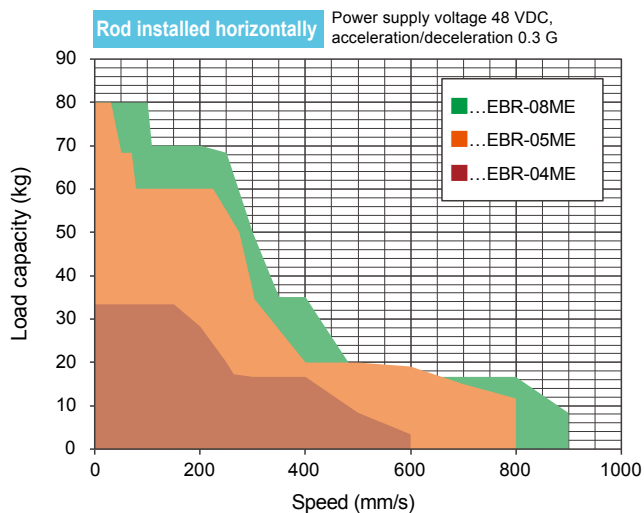


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Series variation

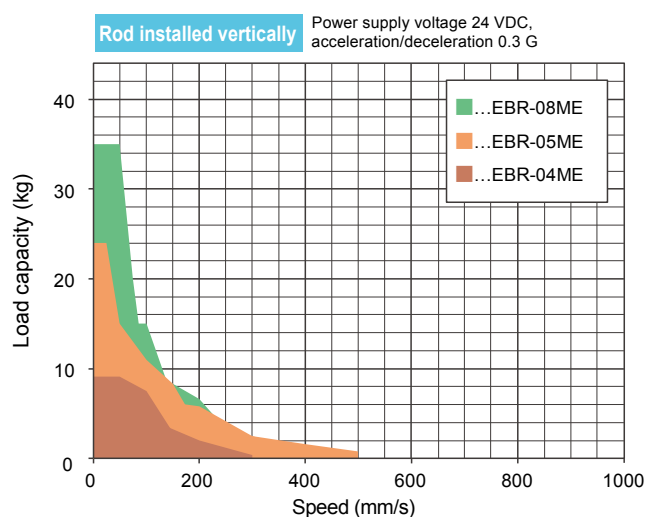
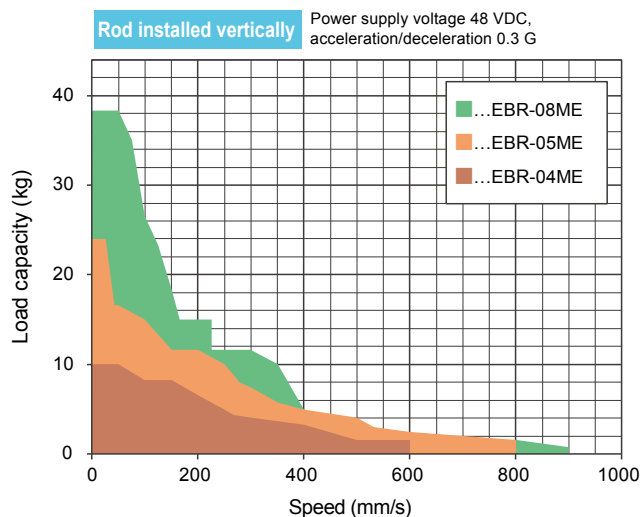
Type	Model No.		Motor size	Motor mounting direction	Body width (mm)	Screw lead (mm)	Max. load capacity (kg)		Maximum pressing force (N)		
							Horizontal	Vertical			
Rod		EBR-04ME-06	□35	Straight	44	6	33.3	10	131		
		EBR-04ME-12				12	18.3	5	69		
		EBR-04MR/D/L-06		Side/Bottom		6	33.3	9.1	131		
		EBR-04MR/D/L-12				12	18.3	5	69		
		EBR-05ME-02	□42	Straight	54	2	80	24	397		
		EBR-05ME-05				5	60	16.6	193		
		EBR-05ME-10				10	50	10	94		
		EBR-05ME-20				20	20	4.1	33		
		EBR-05MR/D/L-02		Side/Bottom		2	80	24	397		
		EBR-05MR/D/L-05				5	60	16.6	193		
		EBR-05MR/D/L-10				10	36.6	8.3	94		
		EBR-05MR/D/L-20				20	18.3	4.1	33		
		EBR-08ME-05	□56	Straight	82	5	80	38.3	1050		
		EBR-08ME-10				10	70	18.3	468		
		EBR-08ME-20				20	35	11.6	213		
		EBR-08MR/D/L-05		Side/Bottom		5	80	38.3	1050		
		EBR-08MR/D/L-10				10	70	18.3	468		
		EBR-08MR/D/L-20				20	35	8.3	213		

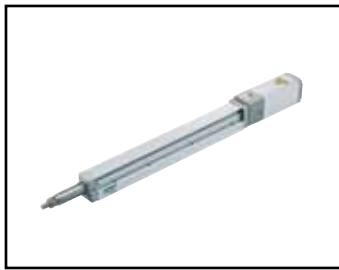


	Stroke length (mm) and max. speed (mm/s)														Page	
	50 mm	100	150	200	250	300	350	400	450	500	550	600	650	700		
	350 mm/s				300	250									34	
	600				490											
	350				300	250									36	
	600				490											
	130				85										40	
	330				210											
	600				420											
	800															
	120				85										42	
	330				210											
	500				420											
	800															
	225					200										46
	450					400										
	900				600											
	225					200										48
	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.





Electric actuator Rod with built-in guide

EBR-04ME

Straight motor mounting

□35 Stepper motor
with battery-less absolute 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 Motor
M Yes

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

H Encoder
A Battery-less absolute encoder

G Brake
N Without brake
B With brake

I Relay cable
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 "With brake" for vertical use.
*2 Select the controller from page 61.
*3 Refer to page 71 for relay cable dimensions.

Product subject to the EAR (EAR99)

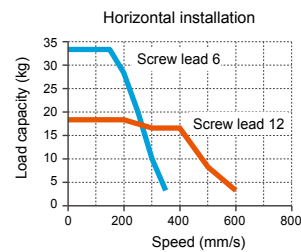
Specifications

Motor	□35 Stepper motor	
Encoder type	Battery-less absolute encoder	
Drive method	Ball screw ø10	
Stroke length mm	50 to 400	
Screw lead mm	6	12
Max. load capacity kg	Horizontal	33.3(33.3)
*1 *2	Vertical	10(9.1)
Operation speed range mm/s	7 to 350(250)	15 to 600(500)
*3 *4		
Maximum pressing force N	131	69
Pressing operation speed range mm/s	5 to 20	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	4.0	
Brake	Model, power supply voltage	Non-excitation operation, 24 VDC ±10%
	Power consumption W	7
	Holding force N	126
		63
Insulation resistance	10 MΩ, 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	

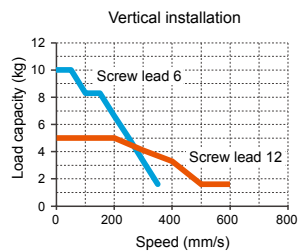
- *1 The values in () are at 24 VDC.
*2 Load capacity varies according to acceleration/deceleration and speed.
Refer to page 58 for details.
*3 The maximum speed values in () are at 24 VDC.
*4 The maximum speed may decrease depending on the conditions.

Speed and load capacity

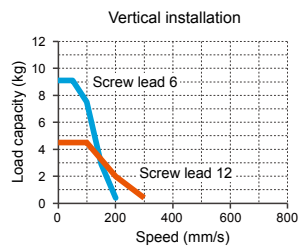
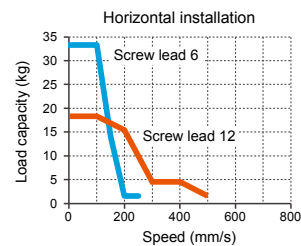
[At 48 VDC]



*Acceleration/deceleration 0.3 G



[At 24 VDC]



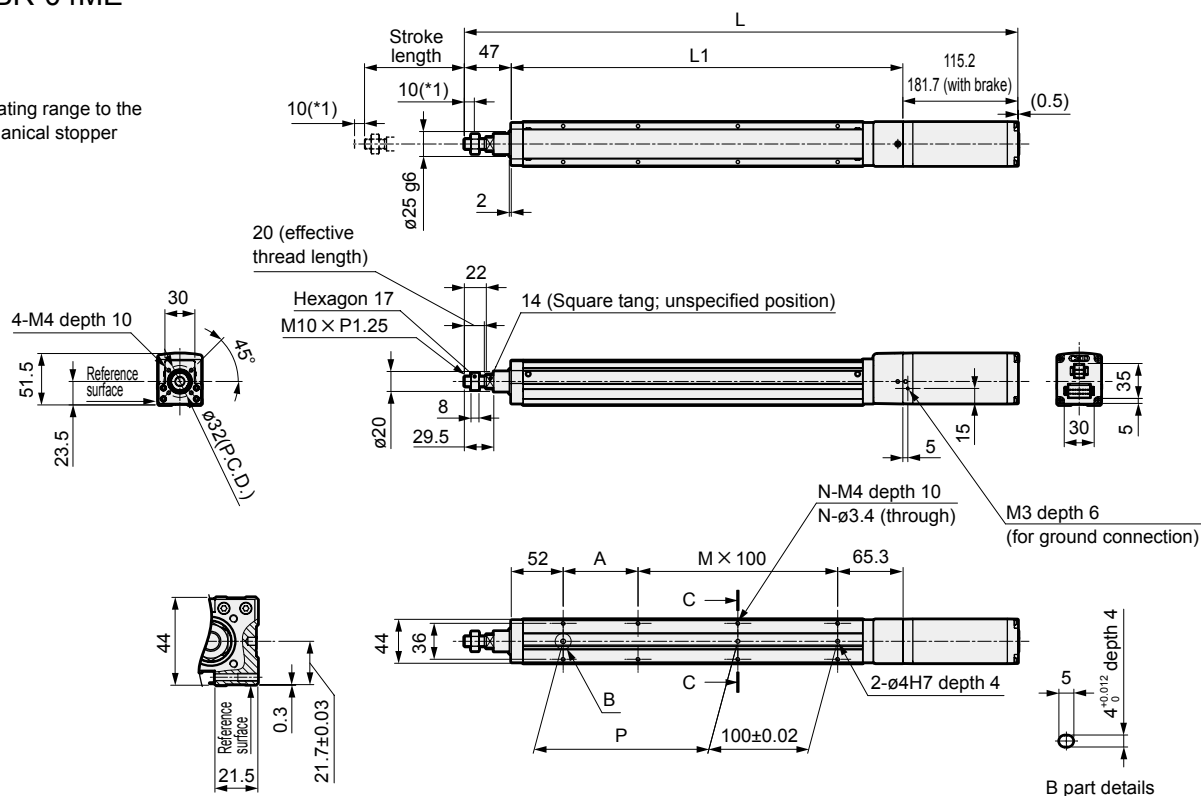
Stroke length and max. speed

Screw lead	Power supply voltage	Stroke (mm/s)					
		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	

Dimensions Straight motor mounting

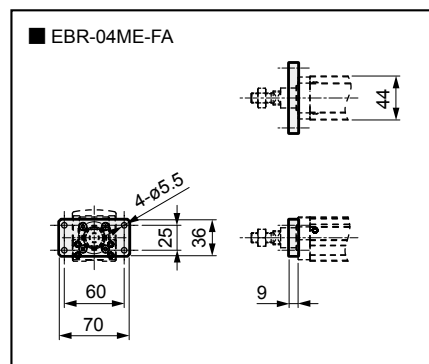
EBR-04ME

*1 Operating range to the mechanical stopper



C-C cross-section (detail)

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
	With brake	471	521	571	621	671	721	771
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
	With brake	2.1	2.3	2.4	2.6	2.7	2.9	3.0



EBS
(With motor)

EBR
(With motor)

ECR
(Controller)

Safety
precautions



Electric actuator Rod with built-in guide

EBR-04M*

Motor mounting on side/bottom

□ 35 Stepper motor
with battery-less absolute 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 Motor
M Yes

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

D Mounting
00 Basic
FA Rod side flange

E Screw lead
06 5 mm
12 10 mm

F Stroke
0050 to 0400
50 mm (In 50 mm increments)
400 mm

H Encoder
A Battery-less absolute encoder

G Brake
N Without brake
B With brake

I Relay cable
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 "With brake" for vertical use.

*2 Select the controller from page 61.

*3 Refer to page 71 for relay cable dimensions.

Product subject to the EAR (EAR99)

Specifications

Motor	□ 35 Stepper motor	
Encoder type	Battery-less absolute encoder	
Drive method	Ball screw ø10	
Stroke length	mm	50 to 400
Screw lead	mm	6 12
Max. load capacity	kg	Horizontal 33.3(33.3) 18.3(18.3) Vertical 9.1(9.1) 5(4.5)
Operation speed range	mm/s	7 to 350(200) 15 to 600(400)
Maximum pressing force	N	131 69
Pressing operation speed range	mm/s	5 to 20 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	4.0
Brake	Model, power supply voltage	Non-excitation operation, 24 VDC ±10%
	Power consumption	W 7
	Holding force	N 126 63
Insulation resistance	10 MΩ, 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	

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

*2 Load capacity varies according to acceleration/deceleration and speed.

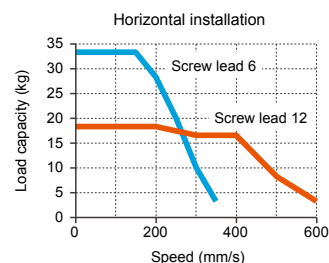
Refer to page 58 for details.

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

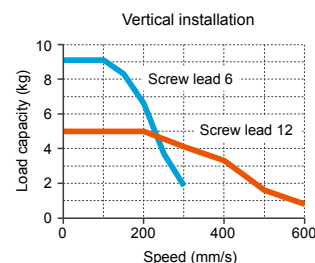
*4 The maximum speed may decrease depending on the conditions.

Speed and load capacity

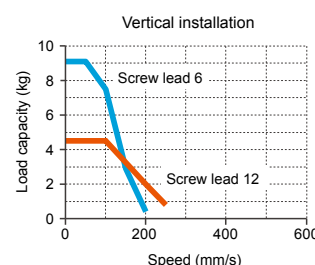
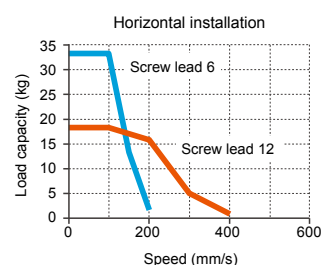
[At 48 VDC]



*Acceleration/deceleration 0.3 G



[At 24 VDC]



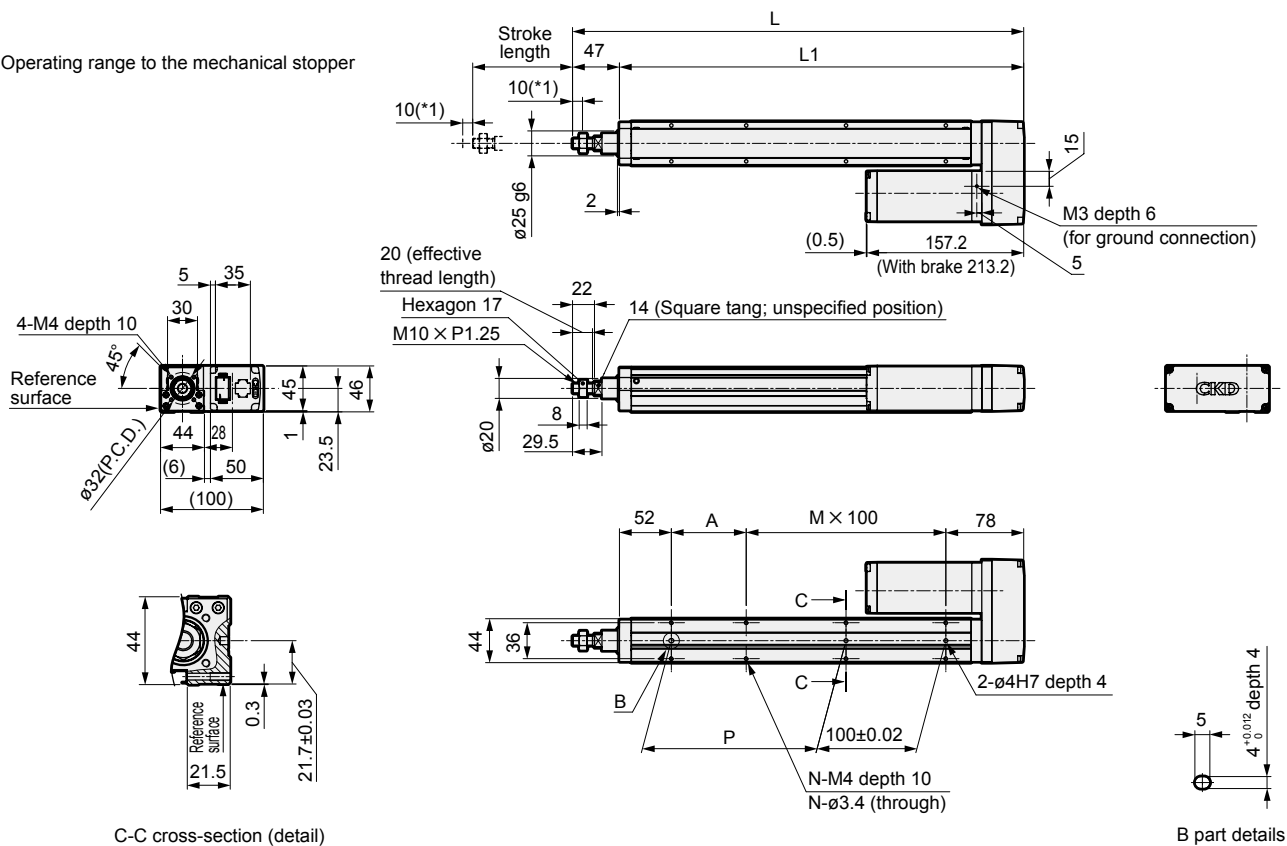
Stroke length and max. speed

Screw lead	Power supply voltage	Stroke (mm/s)				
		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

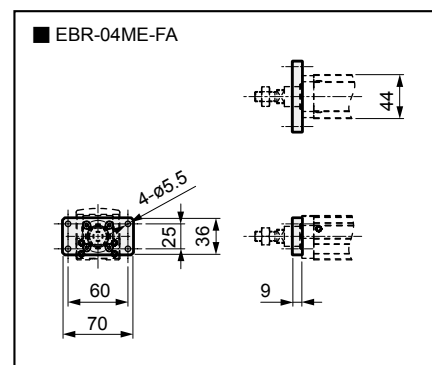
Dimensions Motor right-side mounting

● EBR-04MR

*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)

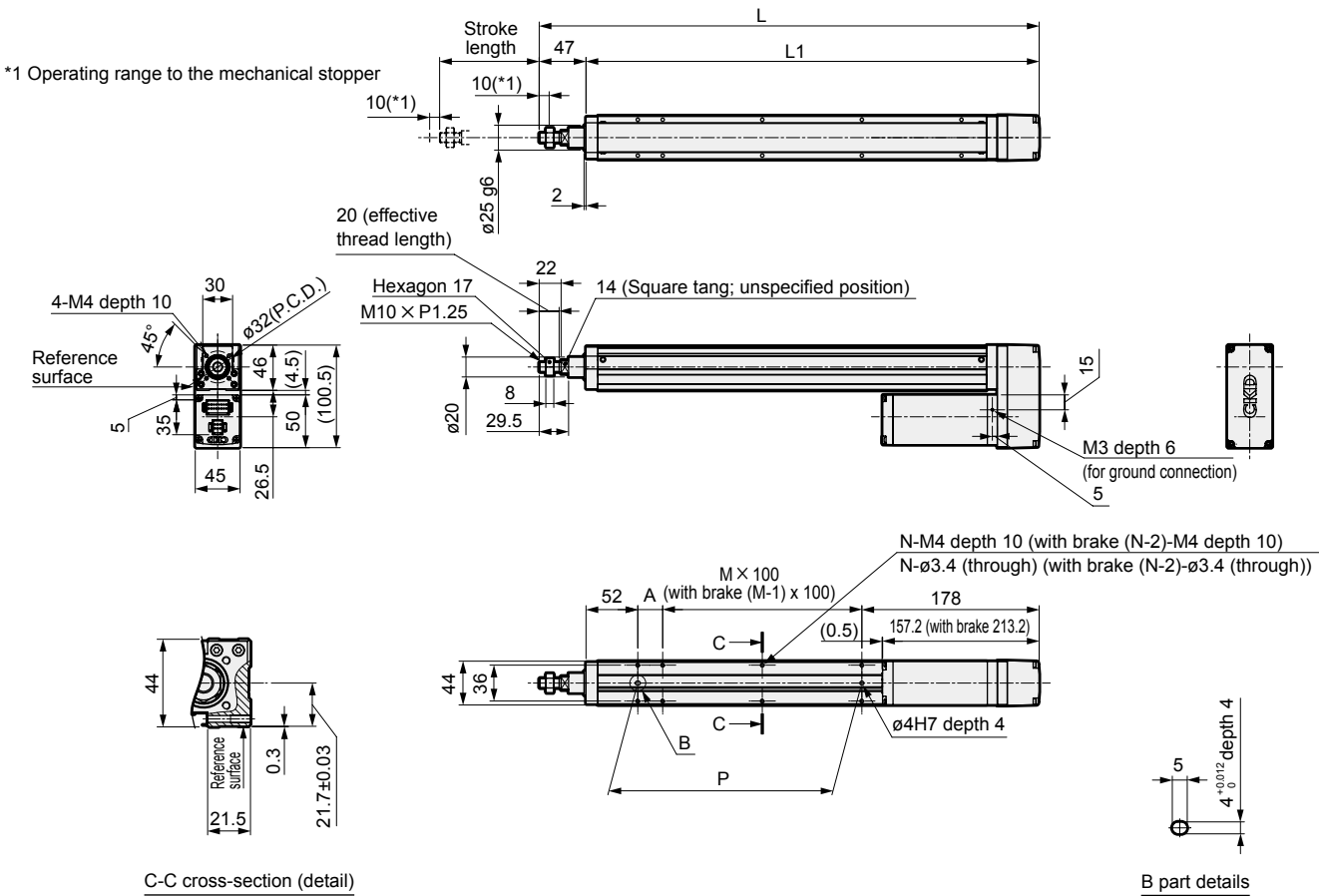
ECR
(Controller)

Safety
precautions

EBR-04M*

Dimensions Motor bottom mounting

● EBR-04MD

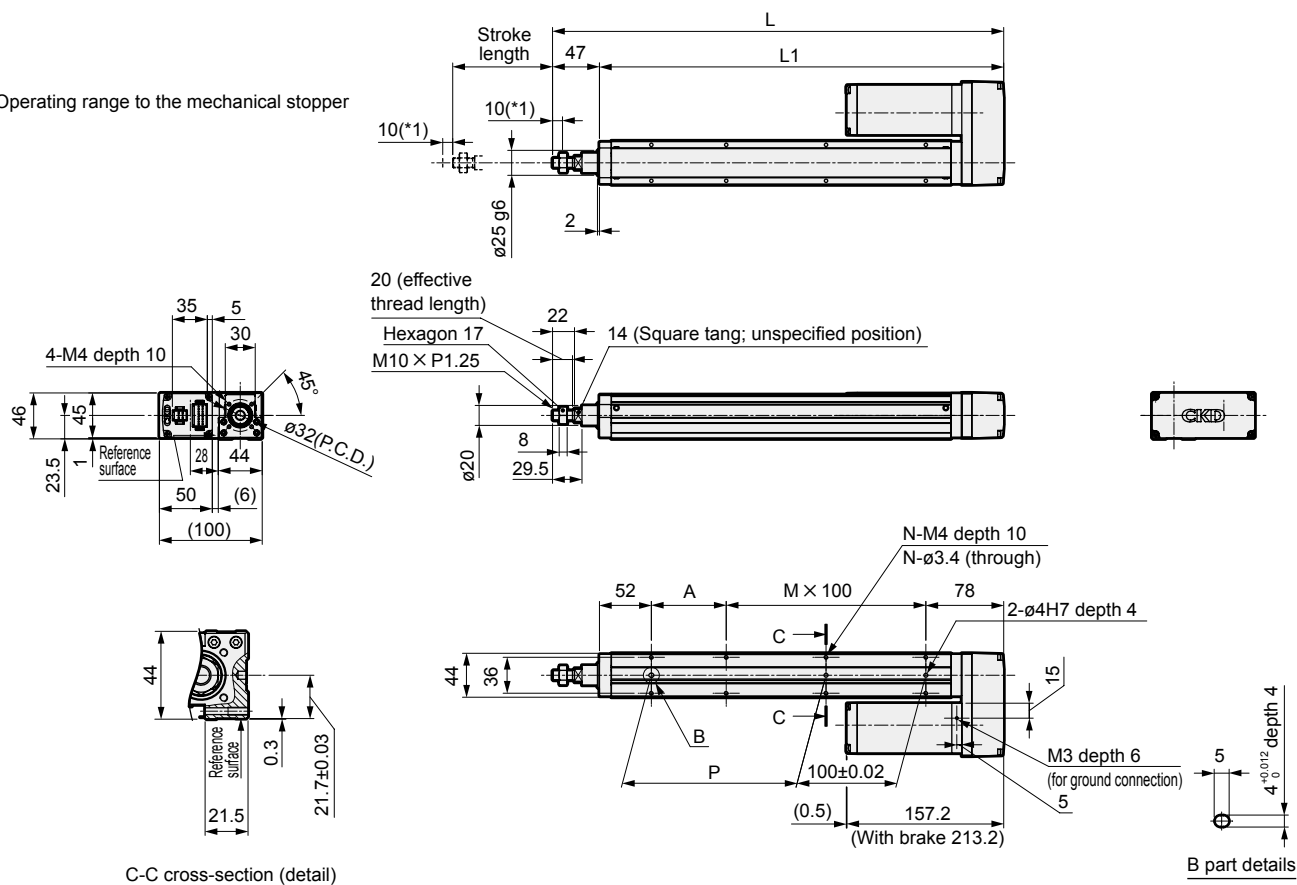


Stroke code		0250	0300	0350	0400
Stroke length (mm)		250	300	350	400
L		502	552	602	652
L1		455	505	555	605
A		25	75	25	75
M		2	2	3	3
N		8	8	10	10
P		225	275	325	375
Weight (kg)	Without brake	2.3	2.5	2.6	2.8
	With brake	2.8	3.0	3.1	3.3

Dimensions Motor left-side mounting

● EBR-04ML

*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)

Safety
precautions



Electric actuator Rod with built-in guide

EBR-05ME

Straight motor mounting

□ 42 Stepper motor
with battery-less absolute 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 Motor
M Yes

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
A Battery-less absolute encoder

G Brake
N Without brake
B With brake

I Relay cable
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 "With brake" for vertical use.

*2 Select the controller from page 61.

*3 Refer to page 71 for relay cable dimensions.

Product subject to the EAR (EAR99)

Specifications

Motor	□ 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)	50(50)	20(20)
	Vertical 24(24)	16.6(15)	10(6.6)	4.1(4.1)
Operation speed range mm/s	2 to 130 (80)	6 to 330 (275)	12 to 600 (500)	25 to 800 (700)
Maximum pressing force N	397	193	94	33
Pressing 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	Non-excitation operation, 24 VDC ±10%			
Model, power supply voltage	7			
Power consumption W	7			
Holding force N	471	188	94	47
Insulation resistance	10 MΩ, 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			

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

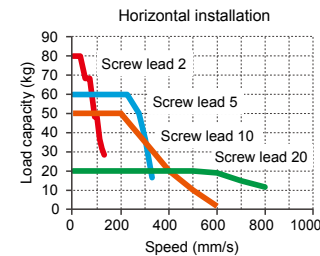
*2 Load capacity varies according to acceleration/deceleration and speed. Refer to page 58 for details.

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

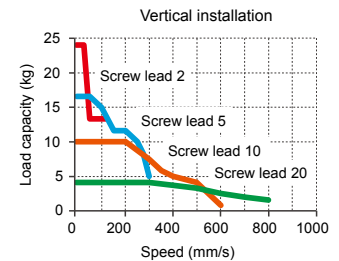
*4 The maximum speed may decrease depending on the conditions.

Speed and load capacity

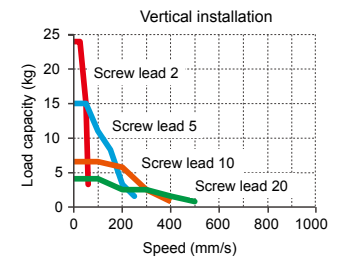
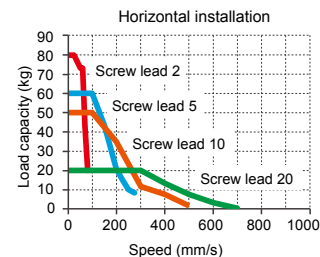
[At 48 VDC]



*Acceleration/deceleration 0.3 G



[At 24 VDC]



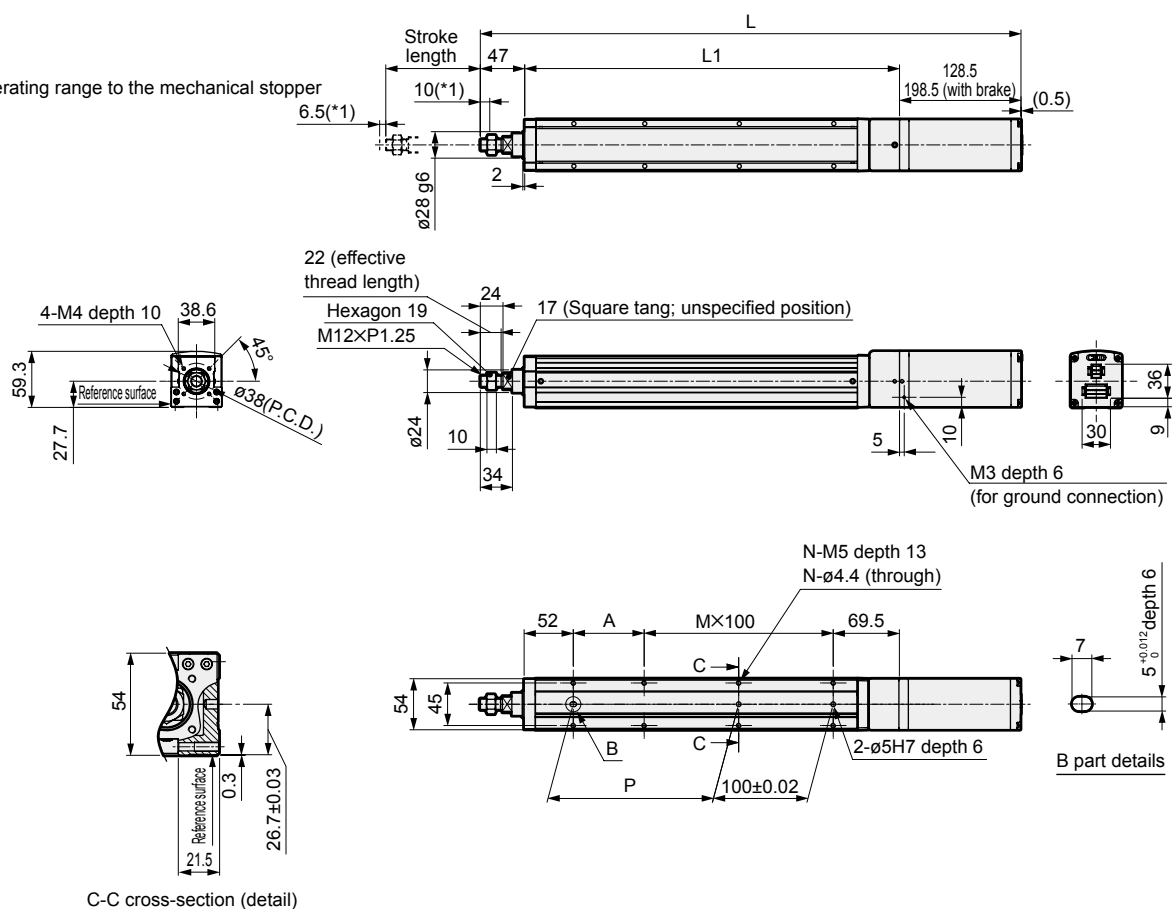
Stroke length and max. speed

Screw lead	Power supply voltage	Stroke (mm/s)			
		50 to 200	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

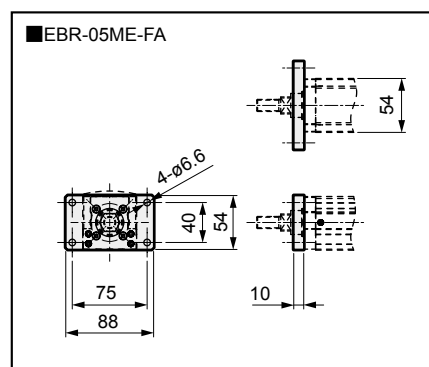
Dimensions

● EBR-05ME

*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



EBR
(With motor)

EBR
(With motor)

ECR
(Controller)

Safety
precautions



Electric actuator Rod with built-in guide

EBR-05M*

Motor mounting on side/bottom

☐ 42 Stepper motor
with battery-less absolute 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 Motor
M Yes

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

G Brake *1
N Without brake
B With brake

H Encoder
A Battery-less absolute encoder

I Relay cable *2 *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 "With brake" for vertical use.

*2 Select the controller from page 61.

*3 Refer to page 71 for relay cable dimensions.

Product subject to the EAR (EAR99)

Specifications

Motor		□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	80(80)	60(60)	36.6(36.6)	18.3(18.3)
	Horizontal *1 *2 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)
*3 *4					
Maximum pressing force	N	397	193	94	33
Pressing 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
Insulation resistance		10 MΩ, 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			

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

*2 Load capacity varies according to acceleration/deceleration and speed.

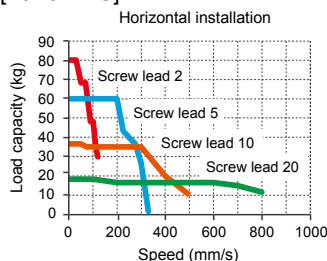
Refer to page 58 for details.

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

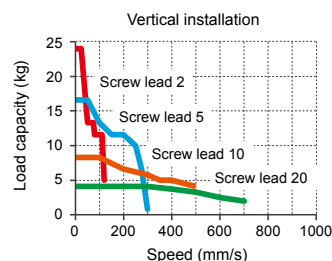
*4 The maximum speed may decrease depending on the conditions.

Speed and load capacity

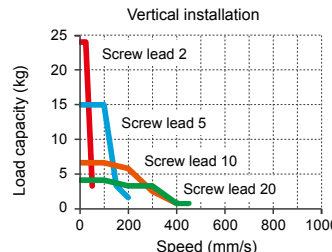
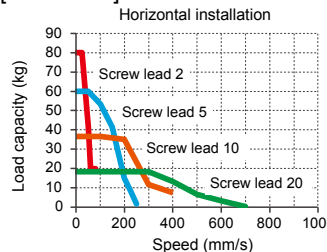
[At 48 VDC]



*Acceleration/deceleration 0.3 G



[At 24 VDC]



Stroke length and max. speed

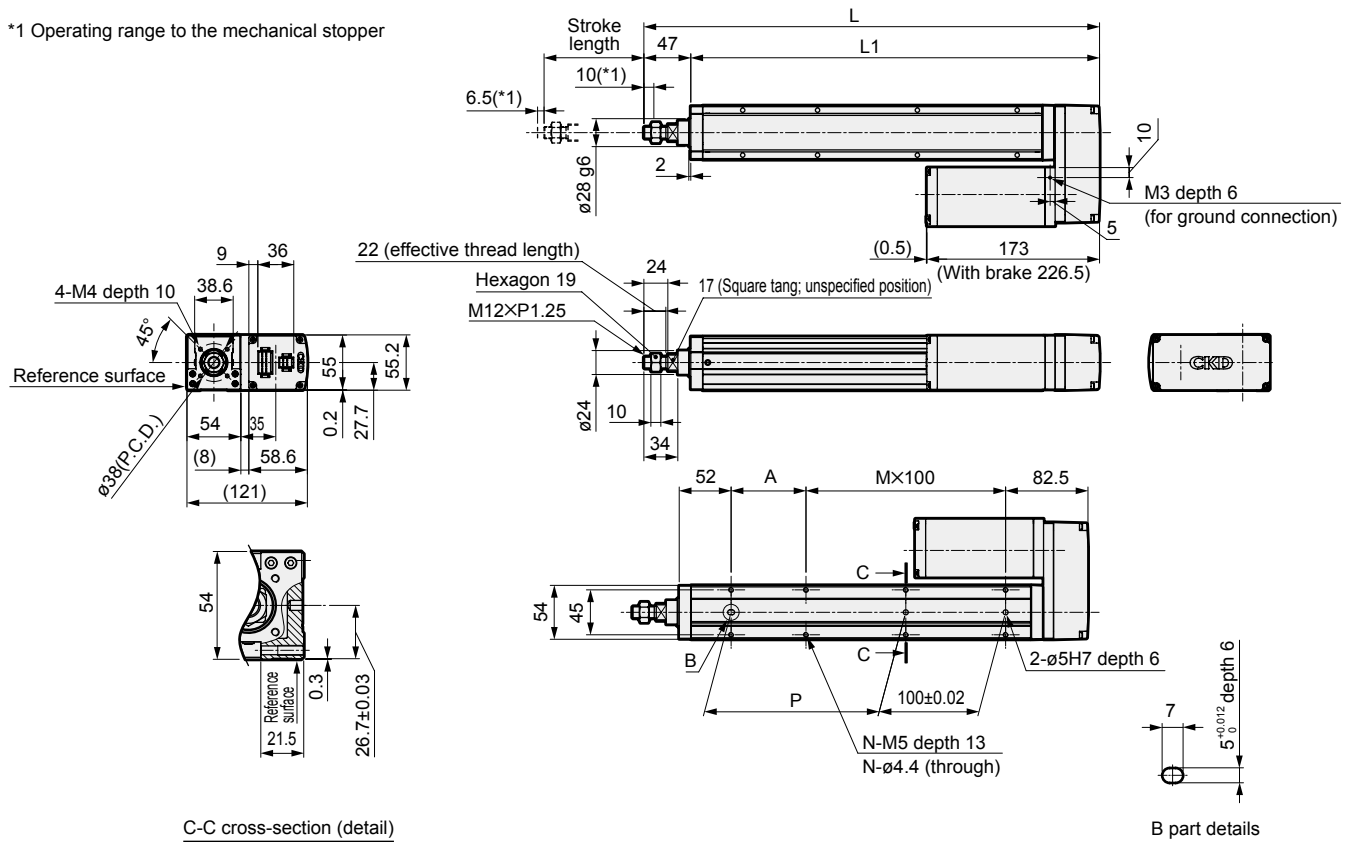
(mm/s)

Screw lead	Power supply voltage	Stroke			
		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

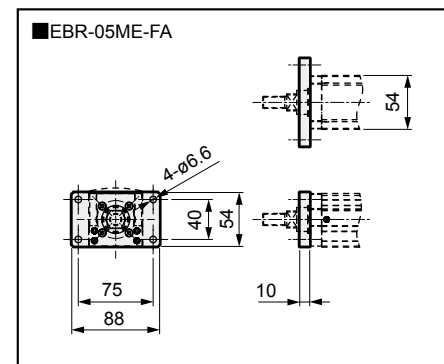
Dimensions Motor right-side mounting

● EBR-05MR

*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



EBS
(With motor)

EBR
(With motor)

ECR
(Controller)

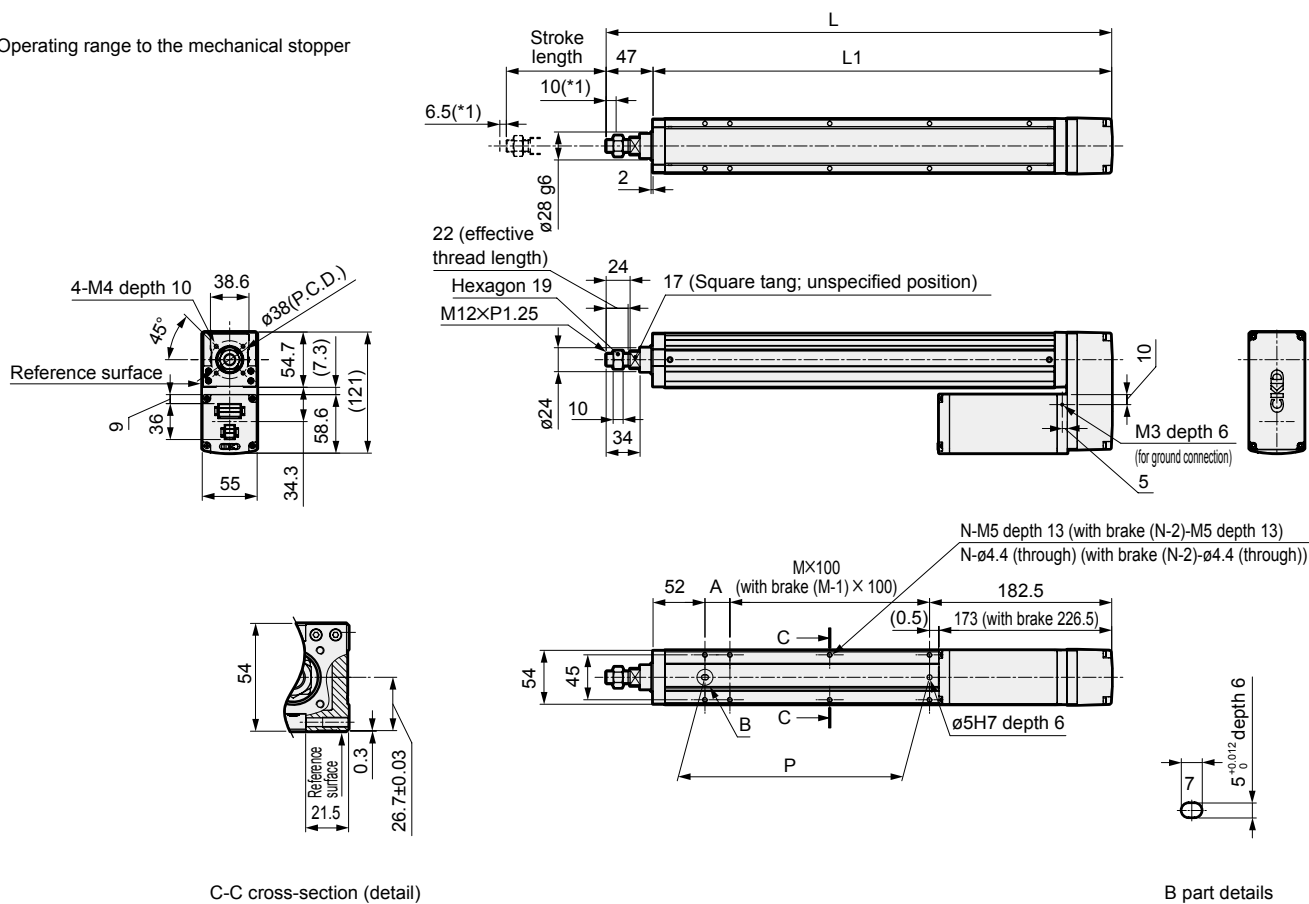
Safety
precautions

EBR-05M*

Dimensions Motor bottom mounting

● EBR-05MD

*1 Operating range to the mechanical stopper



C-C cross-section (detail)

B part details

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

Safety precautions

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	3.2	3.5
	With brake	3.5	3.6	3.7	3.9	4.2	4.3	4.3	4.6



Electric actuator Rod with built-in guide

EBR-08ME

Straight motor mounting

□ 56 Stepper motor
with battery-less absolute 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 Motor
M Yes

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
A Battery-less absolute encoder

G Brake *1
N Without brake
B With brake

I Relay cable *2 *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 "With brake" for vertical use.

*2 Select the controller from page 61.

*3 Refer to page 71 for relay cable dimensions.

Product subject to the EAR (EAR99)

Specifications

Motor	□ 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	Horizontal 80(80)	70(70) 35(23.3)
		Vertical 38.3(35)	18.3(15) 11.6(10)
Operation speed range	mm/s	6 to 225 (150)	12 to 450 (300) 25 to 900 (500)
Maximum pressing force	N	1050	468 213
Pressing 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
Insulation resistance		10 MΩ, 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	

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

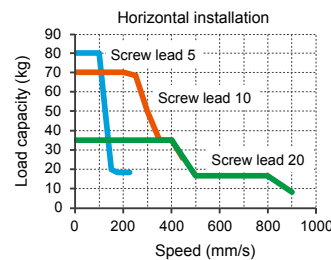
*2 Load capacity varies according to acceleration/deceleration and speed.
Refer to page 58 for details.

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

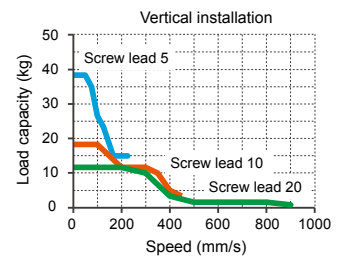
*4 The maximum speed may decrease depending on the conditions.

Speed and load capacity

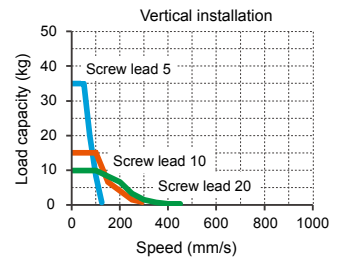
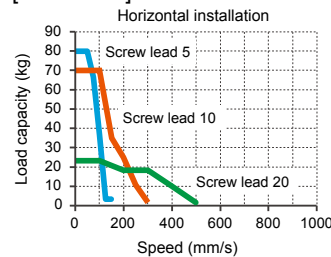
[At 48 VDC]



*Acceleration/deceleration 0.3 G



[At 24 VDC]



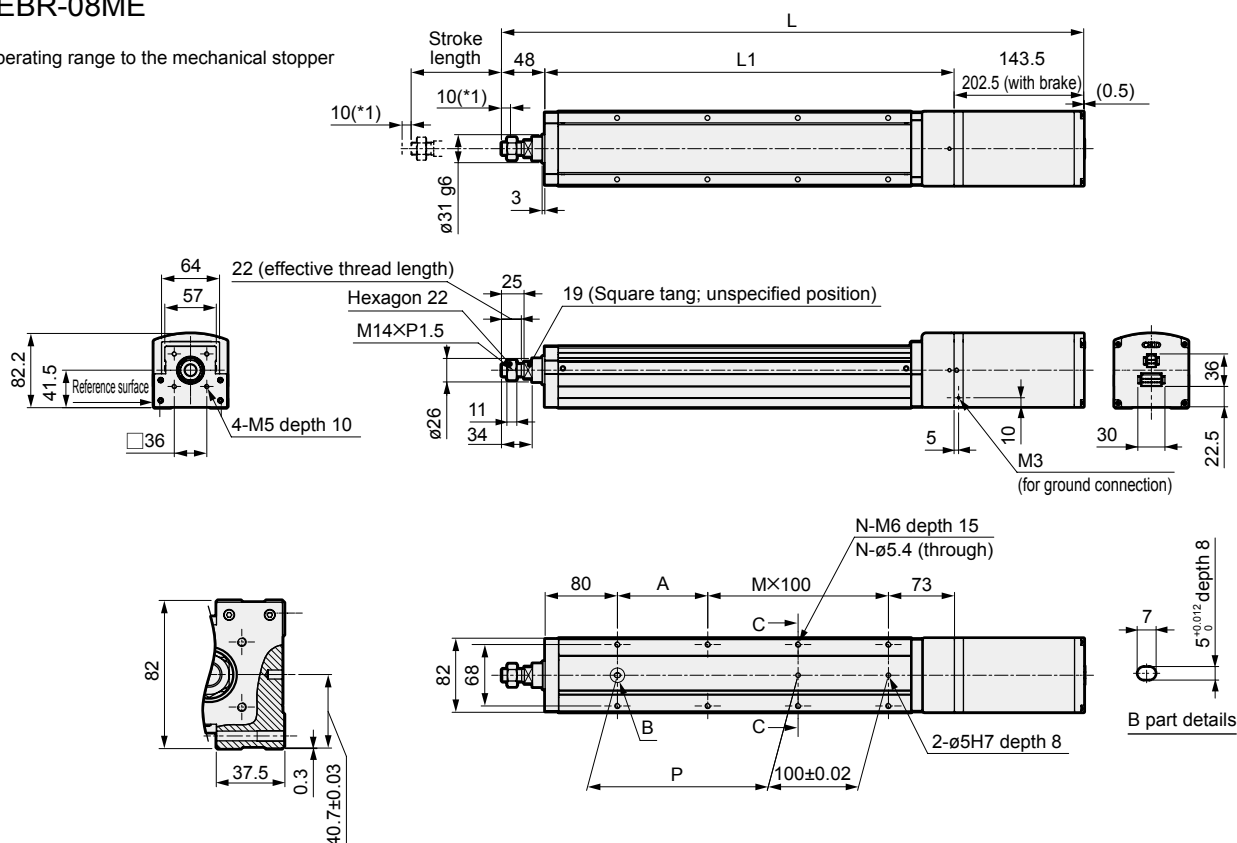
Stroke length and max. speed

Screw lead	Power supply voltage	Stroke (mm/s)									
		50 to 200	250	300	350	400	450	500	550	600	700
5	48 VDC	225	225	225	200	200	200	200	200	200	200
	24 VDC	150	150	150	150	150	150	150	150	150	150
10	48 VDC	450	450	450	400	400	400	400	400	400	400
	24 VDC	300	300	300	300	300	300	300	300	300	300
20	48 VDC	900	600	600	600	600	600	600	600	600	600
	24 VDC	500	500	500	500	500	500	500	500	500	500

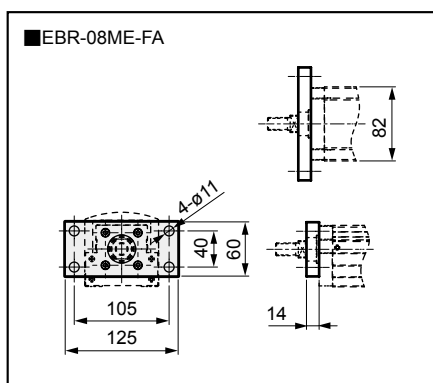
Dimensions

● EBR-08ME

*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	994.5	1044.5	1094.5
	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	9.9	10.3	10.7
	With brake	7.5	7.9	8.3	8.6	9.0	9.4	9.8	10.1	10.5	10.9	11.2	11.6	12.0



Electric actuator Rod with built-in guide

EBR-08M*

Motor mounting on side/bottom

□ 56 Stepper motor
with battery-less absolute encoder



How to order

EBR - 08 M R - 00 - 05 0300 N A N - C S03									
A	B	C	D	E	F	G	H	I	
<div> <div> A Body size 08 Body width 82 mm </div> <div> B Motor M Yes </div> <div> C Motor mounting direction R Right-side mounting D Bottom mounting L Left-side mounting </div> <div> D Mounting 00 Basic FA Rod side flange </div> <div> E Screw lead 05 5 mm 10 10 mm 20 20 mm </div> <div> F Stroke 0050 to 0700 50 mm (In 50 mm increments) 700 mm </div> <div> G Brake *1 N Without brake B With brake </div> <div> H Encoder A Battery-less absolute encoder </div> <div> I Relay cable *2 *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 </div> </div>									

*1 Select "With brake" for vertical use.

*2 Select the controller from page 61.

*3 Refer to page 71 for relay cable dimensions.

Product subject to the EAR (EAR99)

Specifications

Motor	□ 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	Horizontal	80(80)	70(70)	35(23.3)
	*1 *2	Vertical	38.3(35)	18.3(15)	8.3(8.3)
Operation speed range	mm/s	6 to 225 (100)	12 to 450 (300)	25 to 700 (500)	
Maximum pressing force	N	1050	468	213	
Pressing 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
Insulation resistance	10 MΩ, 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				

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

*2 Load capacity varies according to acceleration/deceleration and speed.

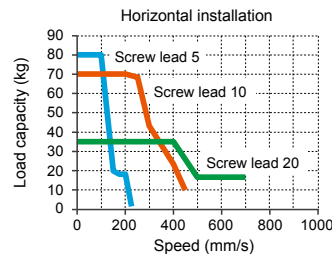
Refer to page 58 for details.

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

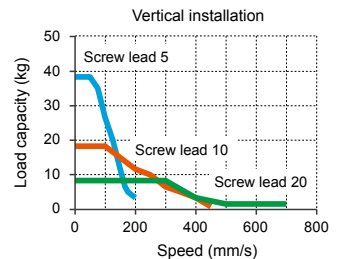
*4 The maximum speed may decrease depending on the conditions.

Speed and load capacity

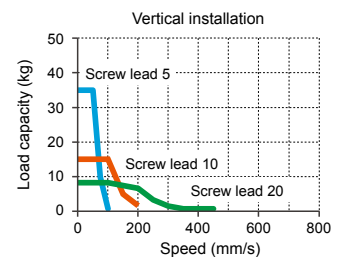
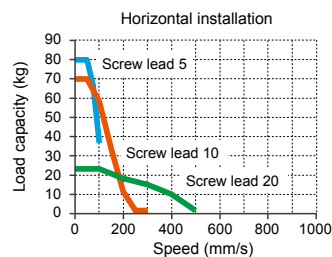
[At 48 VDC]



*Acceleration/deceleration 0.3 G



[At 24 VDC]



Stroke length and max. speed

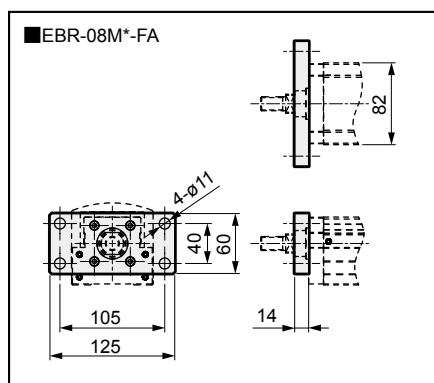
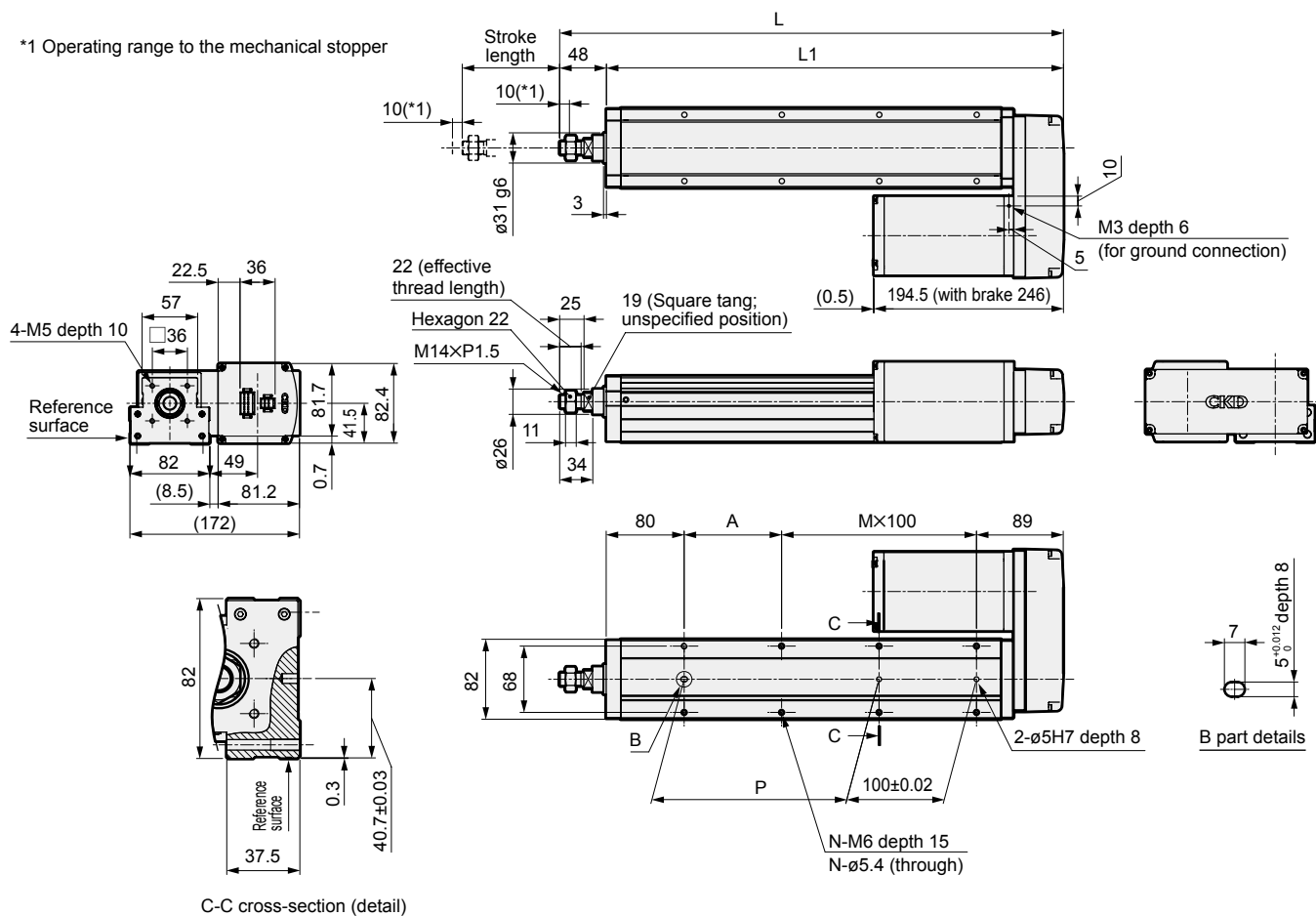
(mm/s)

Screw lead	Power supply voltage	Stroke										
		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

Dimensions Motor right-side mounting

EBR-08MR

*1 Operating range to the mechanical stopper



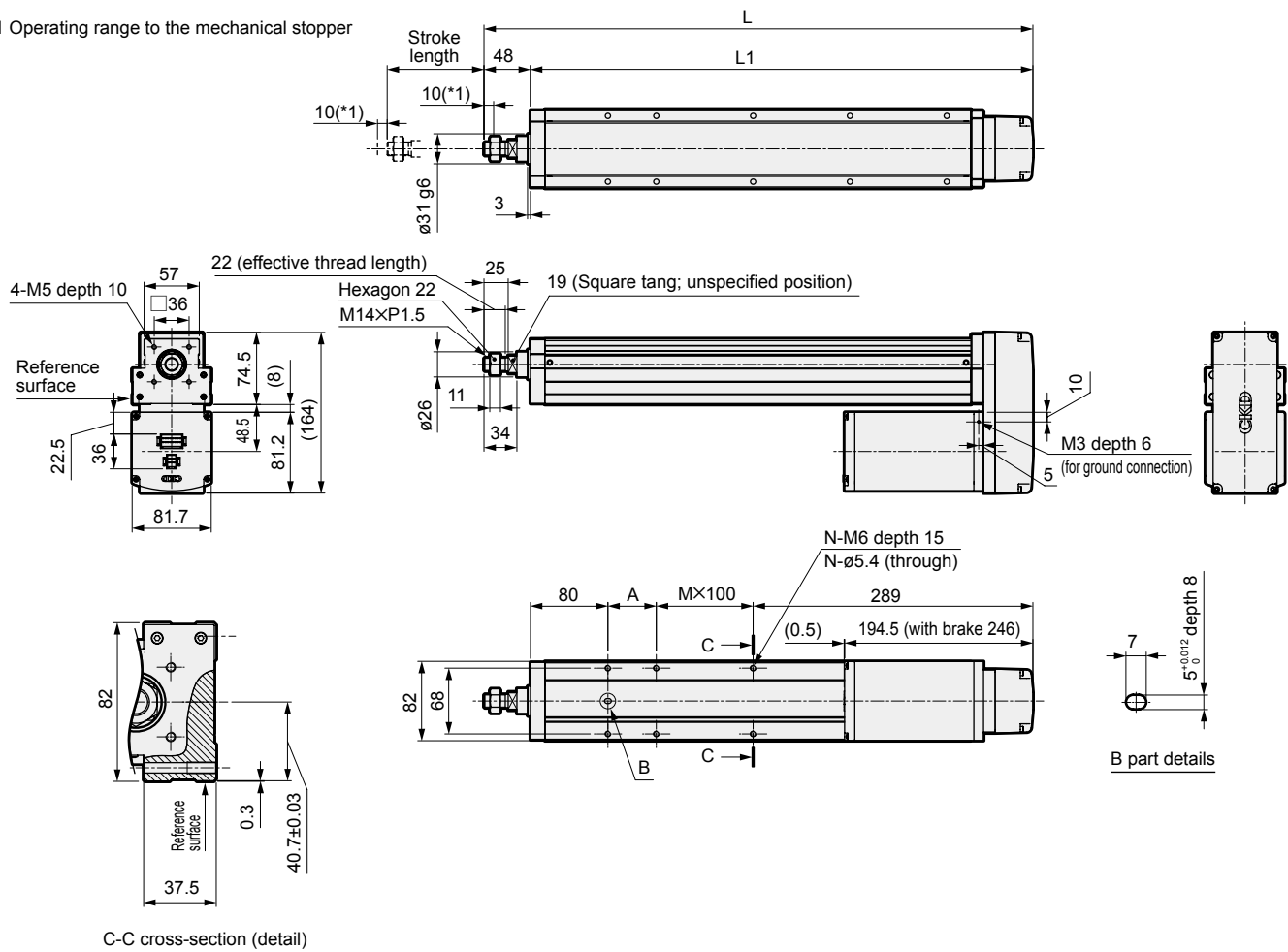
Stroke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700
Stroke length (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700
L	367	417	467	517	567	617	667	717	767	817	867	917	967	1017
L1	319	369	419	469	519	569	619	669	719	769	819	869	919	969
A	50	100	50	100	50	100	50	100	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	10.4
	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	11.7

EBR-08M*

Dimensions Motor bottom mounting

● EBR-08MD

*1 Operating range to the mechanical stopper



C-C cross-section (detail)

B part details

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

