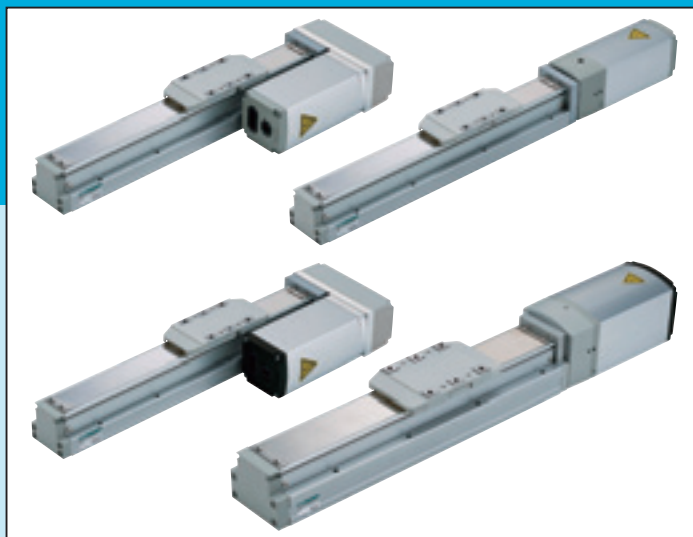


EBS-M/G

Electric actuator
Motor specifications

Slider



CONTENTS

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EBS
(With motor)

EBR
(With motor)

ECR
(Controller)

ECG-A
(Controller)

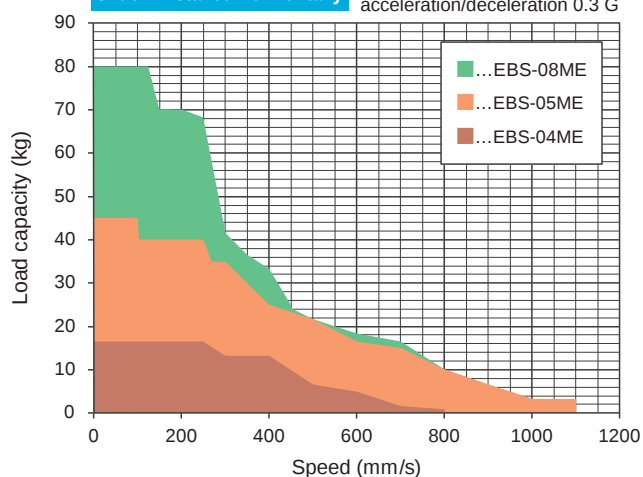
Safety
precautions

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		
  ECR Series		EBS-04ME-06	□35	Straight	44	6	16.6	8.3	177	
		EBS-04ME-12				12	13.3	3.3	89	
		EBS-04MR/D/L-06		Left/Right/Bottom		6	16.6	8.3	177	
		EBS-04MR/D/L-12				12	13.3	3.3	89	
		EBS-05ME-02	□42	Straight	54	2	45	24	385	
		EBS-05ME-05				5	40	16.6	250	
		EBS-05ME-10				10	35	8.3	121	
		EBS-05ME-20				20	16.6	4.5	44	
		EBS-05MR/D/L-02		Left/Right/Bottom		2	45	24	385	
		EBS-05MR/D/L-05				5	40	16.6	250	
		EBS-05MR/D/L-10				10	35	8.3	121	
		EBS-05MR/D/L-20				20	16.6	4.5	44	
		EBS-08ME-05	□56	Straight	82	5	80	40	970	
		EBS-08ME-10				10	70	18.3	477	
		EBS-08ME-20				20	43.3	10	250	
		EBS-08MR/D/L-05		Left/Right/Bottom		5	80	40	970	
		EBS-08MR/D/L-10				10	70	18.3	477	
		EBS-08MR/D/L-20				20	43.3	8.3	250	

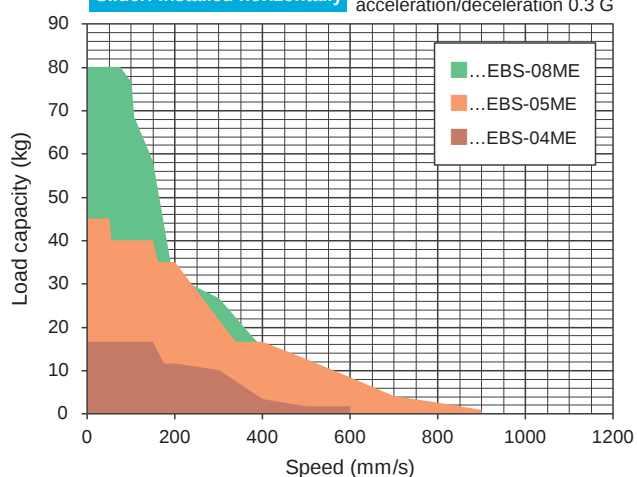
Slider: Installed horizontally

Power supply voltage 48 VDC, acceleration/deceleration 0.3 G



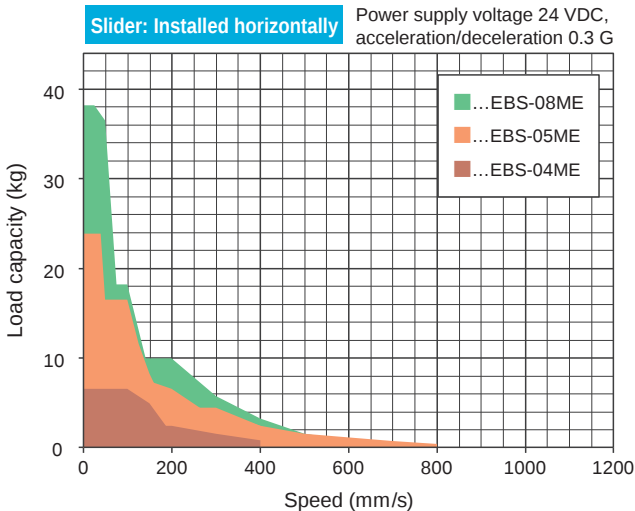
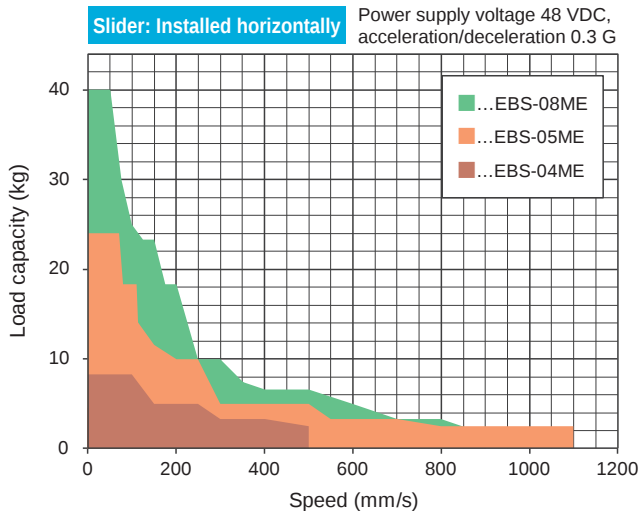
Slider: Installed horizontally

Power supply voltage 24 VDC, acceleration/deceleration 0.3 G



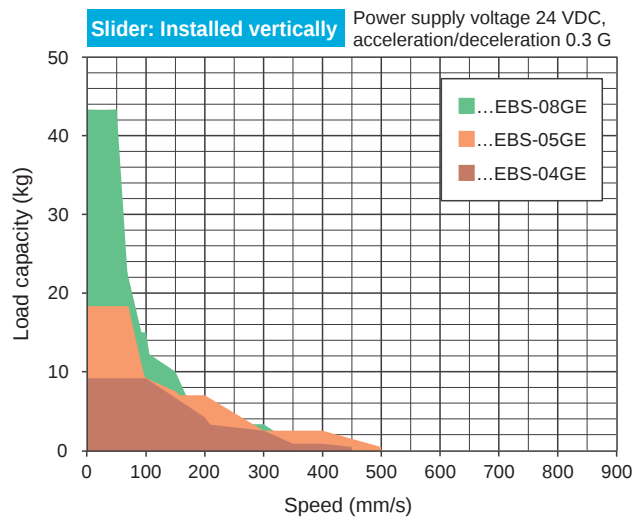
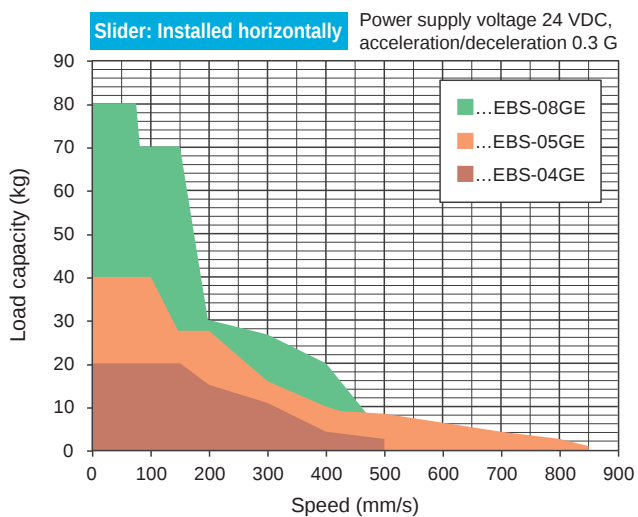
	Stroke (mm) and max. speed (mm/s)																						Page		
	50 mm	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100			
	400 mm/s																							6	
	800																								
	400																							10	
	700																								
	130										120	105	95	80	70										16
	300											270	235	200	185										
	700										625	540	475	415	370										
	1100											1080	950	830	740										
	130										120	105	95	80	70										20
	300											270	235	200	185										
	600											540	475	415	370										
	1100											1080	950	830	740										
	250															220	200	180	135	120	110	100	26		
	550															510	450	410	370	270	240	225		200	
	1100															1000	910	820	740	540	490	450		410	
	225															220	200	180	135	120	110	100	30		
	550															510	450	410	370	270	240	225		200	
	1000															910	820	740	540	490	450	410			

* 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.



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			
  ECG Series		EBS-04GE-06	□35	Straight	44	6	20.0	9.2	155		
		EBS-04GE-12				12	15.0	3.3	77		
		EBS-04GR/D/L-06		Left/Right/Bottom		6	20.0	9.2	155		
		EBS-04GR/D/L-12				12	11.7	3.3	77		
		EBS-05GE-02	□42	Straight	54	2	45.0	18.3	550		
		EBS-05GE-05				5	40.0	14.0	220		
		EBS-05GE-10				10	27.5	7.0	110		
		EBS-05GE-20				20	18.3	2.5	55		
		EBS-05GR/D/L-02		Left/Right/Bottom		2	45.0	18.3	550		
		EBS-05GR/D/L-05				5	40.0	10.0	220		
		EBS-05GR/D/L-10				10	27.5	3.3	110		
		EBS-05GR/D/L-20				20	18.3	0.8	55		
		EBS-08GE-05	□56	Straight	82	5	80.0	43.3	965		
		EBS-08GE-10				10	70.0	28.3	482		
		EBS-08GE-20				20	30.0	3.3	241		
		EBS-08GR/D/L-05		Left/Right/Bottom		5	80.0	33.3	965		
		EBS-08GR/D/L-10				10	70.0	18.3	482		
		EBS-08GR/D/L-20				20	30.0	3.3	241		



	Stroke (mm) and max. speed (mm/s)																						Page			
	50 mm	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100				
	320 mm/s																							6		
	500																									
	250																								10	
	400																									
	120												105	95	80	70										16
	290												270	235	200	185										
	500												475	415	370											
	850														830	740										
	100													95	80	70										20
	250													235	200	185										
	400															370										
	700																									
	150																		135	120	110	100	26			
	250																		240	225	200					
	500																		490	450	410					
	125																		120	110	100	30				
	250																		240	225	200					
	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.

EBS
(With motor)

EBR
(With motor)

ECR
(Controller)

ECG-A
(Controller)

Safety
precautions



Electric actuator Slider

EBS-04*E

Straight motor mounting

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



How to order

EBS - 04 M E - 06 0300 N A N - C S03

A Body size	B Applicable controller *1	C Motor mounting direction	D Screw lead	E Stroke length	F Brake *2	G Encoder *1	H Relay cable *3
04 Body width 44 mm	M ECR G ECG	E Straight mounting	06 6 mm 12 12 mm	0050 to 0500 50 mm (In 50 mm increments) 500 mm	N None B Yes	A Battery-less absolute encoder (for ECR) B Battery-less absolute encoder (for ECG) C Incremental encoder (for ECG)	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

[EBS-04M (applicable controller ECR)]

Motor	☐ 35 stepper motor	
Encoder type	Battery-less absolute encoder	
Drive method	Ball screw ø10	
Stroke length mm	50 to 500	
Thread lead mm	6	12
Max. load capacity kg	Horizontal 16.6 (16.6)	13.3 (11.6)
*1*2	Vertical 8.3 (6.6)	3.3 (2.5)
Operation speed range*3*4 mm/s	7 to 400 (200)	15 to 800 (600)
Maximum pressing force N	177	89
Press operation speed range mm/s	5 to 25	5 to 30
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 ±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

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

*2 Load capacity varies according to acceleration/deceleration and speed. Refer to page 42 for details.

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

*4 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

[EBS-04G (applicable controller ECG)]

Motor	☐ 35 stepper motor	
Encoder type	Battery-less absolute encoder Incremental encoder	
Drive method	Ball screw ø10	
Stroke length mm	50 to 500	
Thread lead mm	6	12
Max. load capacity kg	Horizontal 20.0	15.0
*1	Vertical 9.2	3.3
Operation speed range*2 mm/s	7 to 320	15 to 500
Maximum pressing force N	155	77
Press 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 ±10%	
Motor section max. instantaneous current A	2.4	
Brake	Model, power supply voltage	Non-excitation operation, 24 VDC ±10%
	Power consumption W	6.1
	Holding force N	140 70

*1 Load capacity varies according to acceleration/deceleration and speed. Refer to page 44 for details.

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

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

Stroke and max. speed

[EBS-04M (applicable controller ECR)]

Thread lead	Power supply voltage	Stroke length
		50 to 500
6	48 VDC	400
	24 VDC	200
12	48 VDC	800
	24 VDC	600

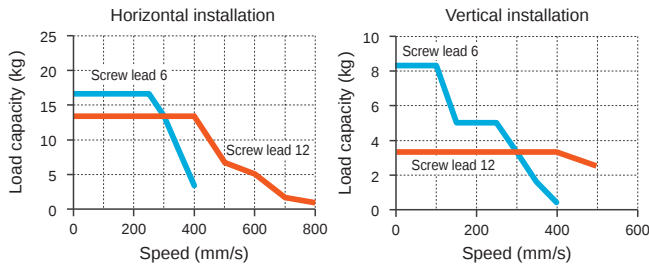
[EBS-04G (applicable controller ECG)]

Thread lead	Power supply voltage	Stroke length
		50 to 500
6	24 VDC	320
12	24 VDC	500

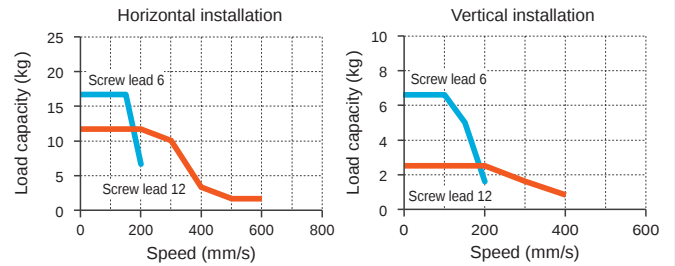
Speed and load capacity

[EBS-04M (applicable controller ECR)]

· At 48 VDC

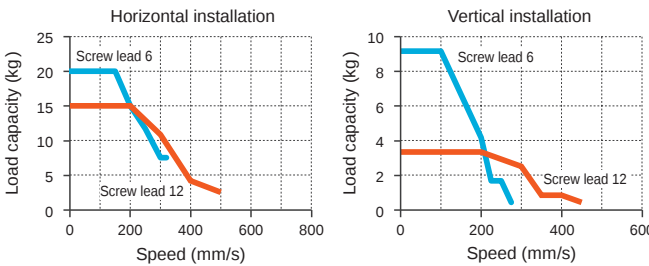


· At 24 VDC



[EBS-04G (applicable controller ECG)]

· At 24 VDC



* At acceleration of 0.3 G.

* Confirm each of the pages listed below for details.

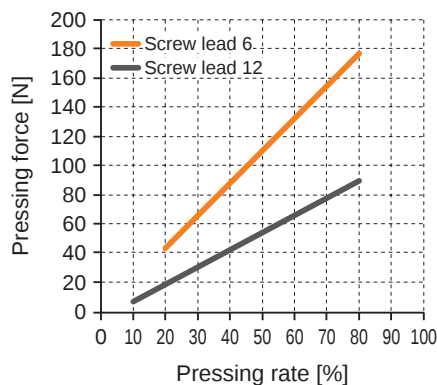
ECR: Page 42

ECG: Page 44

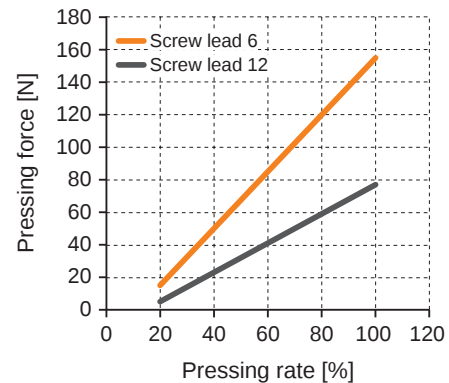
* Incorrectly applying a 48 VDC power supply could result in damage.

Pressing force

[EBS-04M (applicable controller ECR)]



[EBS-04G (applicable controller ECG)]



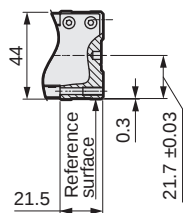
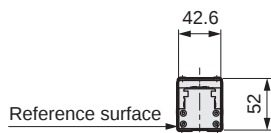
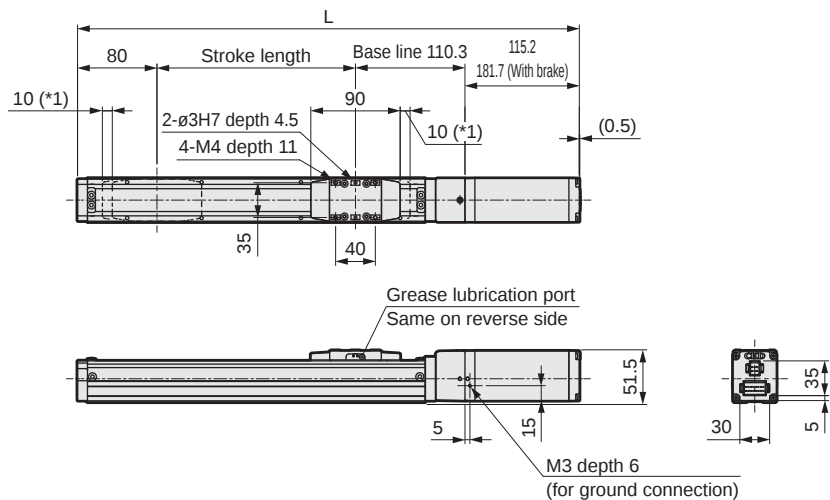
* The above pressing force is a reference value. Variation may occur according to conditions such as pressing speed.

EBS-04*E

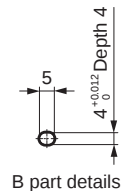
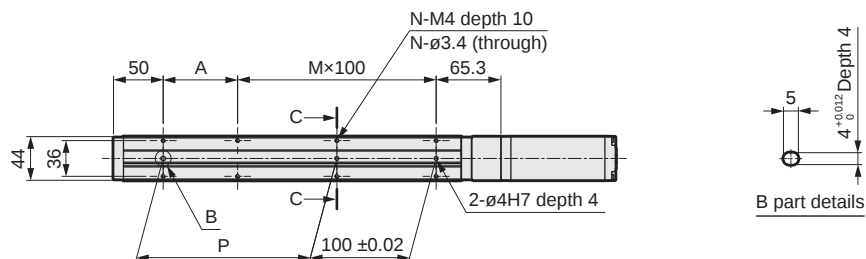
Dimensions: Straight motor mounting

● EBS-04*E

*1 Operating range to the mechanical stopper



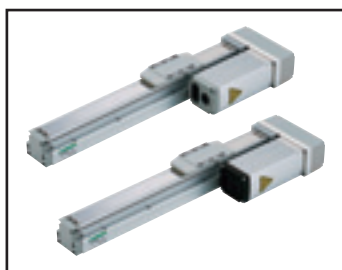
C-C cross-section (detail)



Stroke code		0050	0100	0150	0200	0250	0300	0350	0400	0450	0500
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

Notes

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



Electric actuator Slider

EBS-04**

Motor side mounting (left, right, bottom)

☐ 35 stepper motor

Battery-less absolute encoder

Incremental encoder



How to order

EBS - **04** **M** **R** - **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 Stroke length *2
0050 to 0500
50 mm (In 50 mm increments)
500 mm

F Brake *3
N None
B Yes

D Screw lead
06 6 mm
12 12 mm

G Encoder *1
A Battery-less absolute encoder (for ECR)
B Battery-less absolute encoder (for ECG)
C Incremental encoder (for ECG)

H 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 "0500 (500 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

[EBS-04M (applicable controller ECR)]

Motor	☐ 35 stepper motor	
Encoder type	Battery-less absolute encoder	
Drive method	Ball screw ø10	
Stroke length	mm	50 to 500
Thread lead	mm	6 12
Max. load capacity *1*2	kg	Horizontal 16.6 (16.6) 13.3 (11.6) Vertical 8.3 (6.6) 3.3 (2.5)
Operation speed range*3*4	mm/s	7 to 400 (200) 15 to 700 (500)
Maximum pressing force	N	177 89
Press operation speed range	mm/s	5 to 25 5 to 30
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 ±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

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

*2 Load capacity varies according to acceleration/deceleration and speed. Refer to page 42 for details.

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

*4 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

[EBS-04G (applicable controller ECG)]

Motor	☐ 35 stepper motor	
Encoder type	Battery-less absolute encoder Incremental encoder	
Drive method	Ball screw ø10	
Stroke length	mm	50 to 500
Thread lead	mm	6 12
Max. load capacity *1	kg	Horizontal 20.0 11.7 Vertical 9.2 3.3
Operation speed range*2	mm/s	7 to 250 15 to 400
Maximum pressing force	N	155 77
Press 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 ±10%	
Motor section max. instantaneous current	A	2.4
Brake	Model, power supply voltage	Non-excitation operation, 24 VDC ±10%
	Power consumption W	6.1
	Holding force N	140 70

*1 Load capacity varies according to acceleration/deceleration and speed. Refer to page 44 for details.

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

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

Stroke and max. speed

[EBS-04M (applicable controller ECR)]

Thread lead	Power supply voltage	Stroke length
		(mm/s) 50 to 500
6	48 VDC	400
	24 VDC	200
12	48 VDC	700
	24 VDC	500

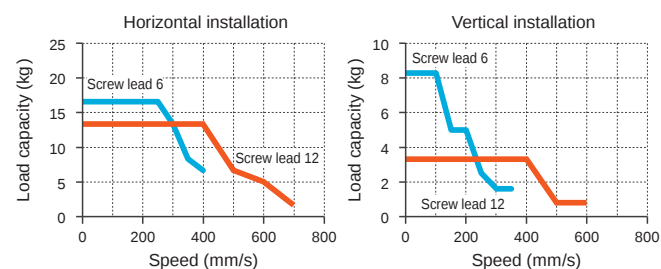
[EBS-04G (applicable controller ECG)]

Thread lead	Power supply voltage	Stroke length
		(mm/s) 50 to 500
6	24 VDC	250
12	24 VDC	400

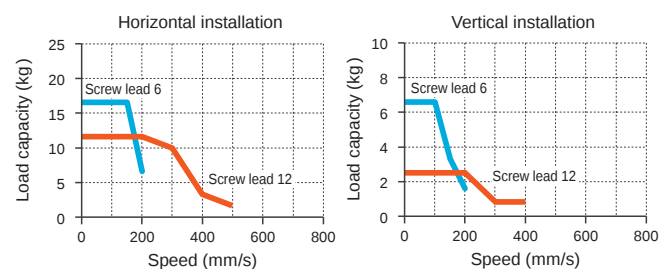
Speed and load capacity

[EBS-04M (applicable controller ECR)]

· At 48 VDC

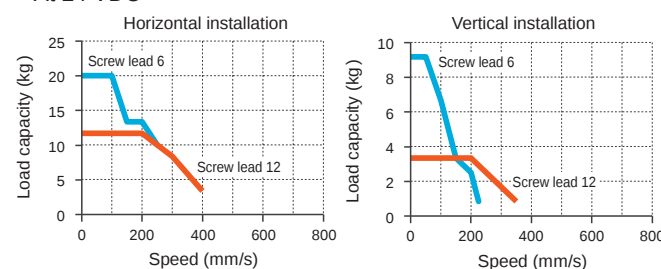


· At 24 VDC



[EBS-04G (applicable controller ECG)]

· At 24 VDC



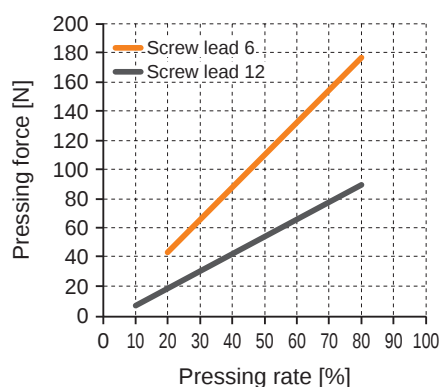
* At acceleration of 0.3 G.

* Confirm each of the pages listed below for details.
ECR: Page 42
ECG: Page 44

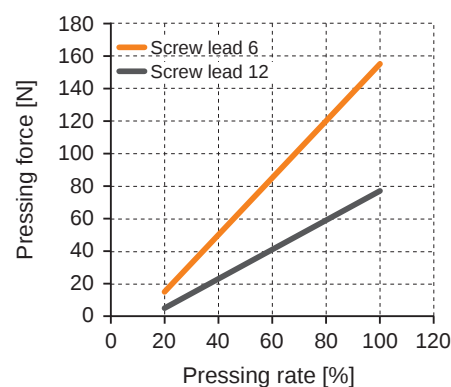
* Incorrectly applying a 48 VDC power supply could result in damage.

Pressing force

[EBS-04M (applicable controller ECR)]



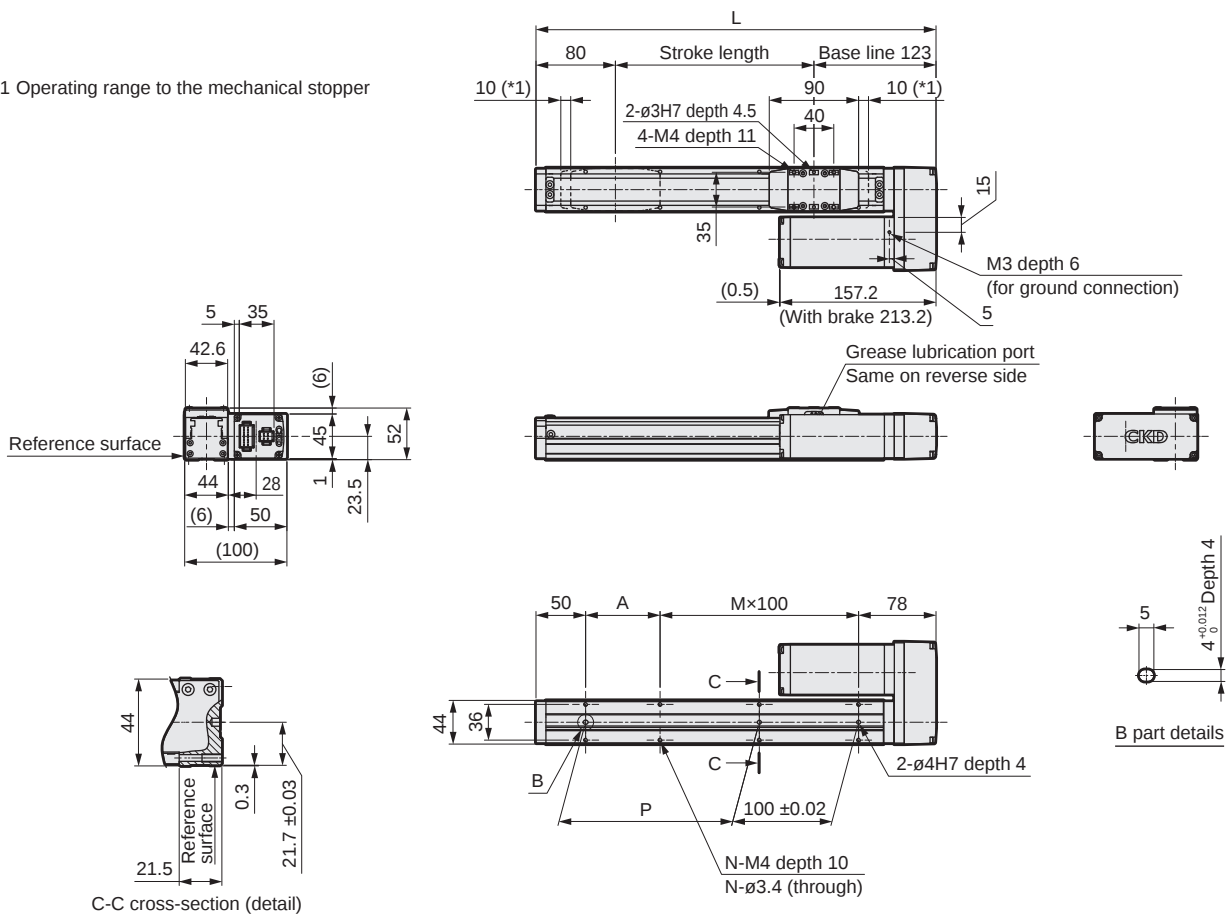
[EBS-04G (applicable controller ECG)]



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

● EBS-04*R

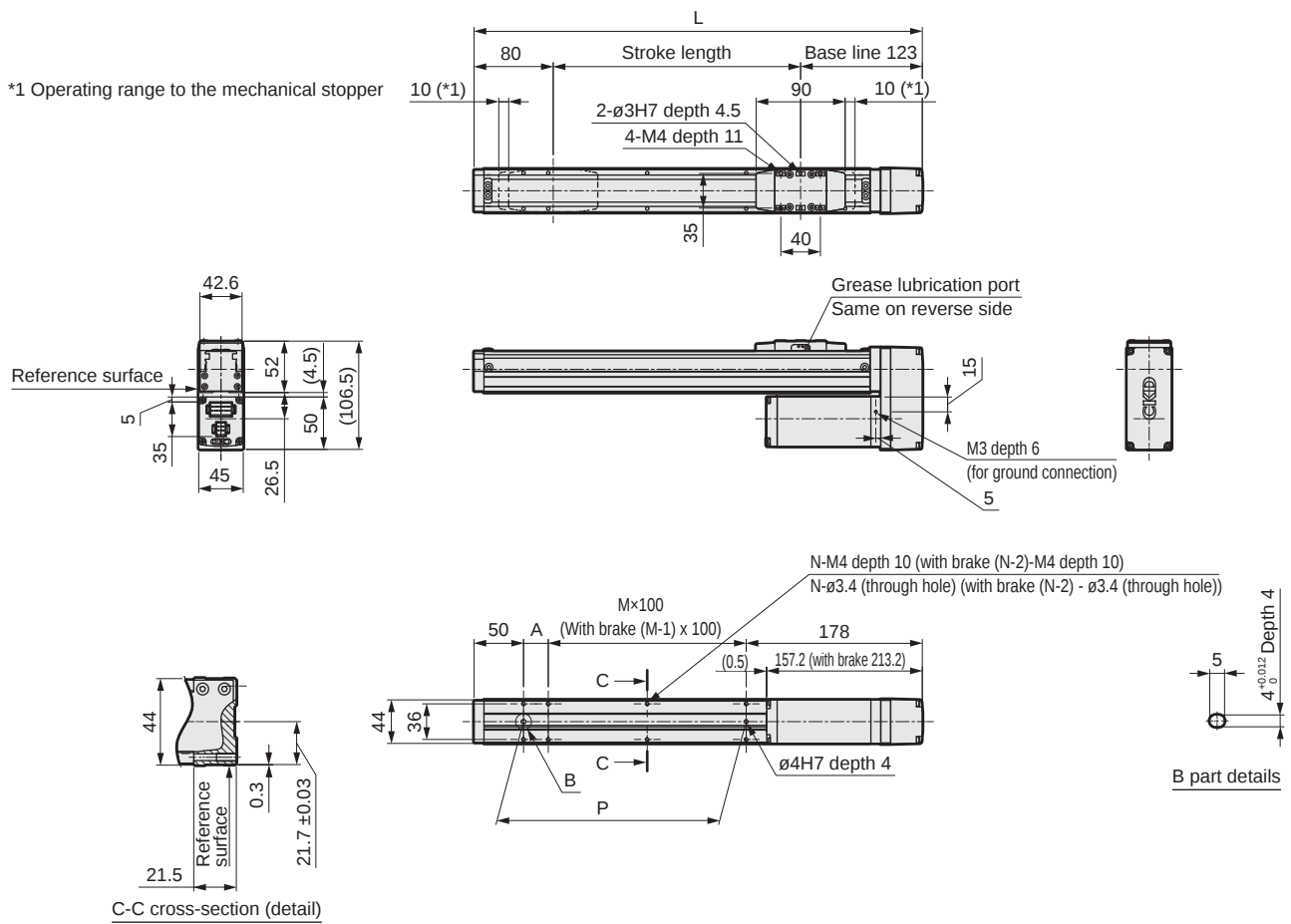
*1 Operating range to the mechanical stopper



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

Dimensions: Motor bottom mounting

● EBS-04*D



Stroke code		0250	0300	0350	0400	0450	0500
Stroke length (mm)		250	300	350	400	450	500
L		453	503	553	603	653	703
A		25	75	25	75	25	75
M		2	2	3	3	4	4
N		8	8	10	10	12	12
P		225	275	325	375	425	475
Weight (kg)	Without brake	2.4	2.6	2.7	2.9	3.1	3.3
	With brake	2.9	3.1	3.2	3.4	3.6	3.8

EBS
(With motor)

EBR
(With motor)

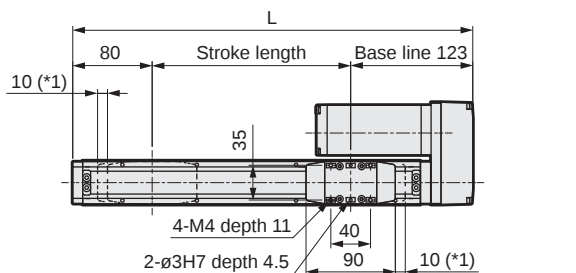
ECR
(Controller)

ECG-A
(Controller)

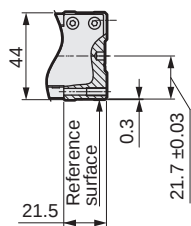
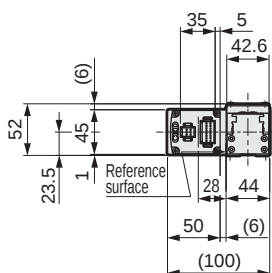
Safety
precautions

● EBS-04*L

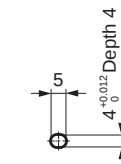
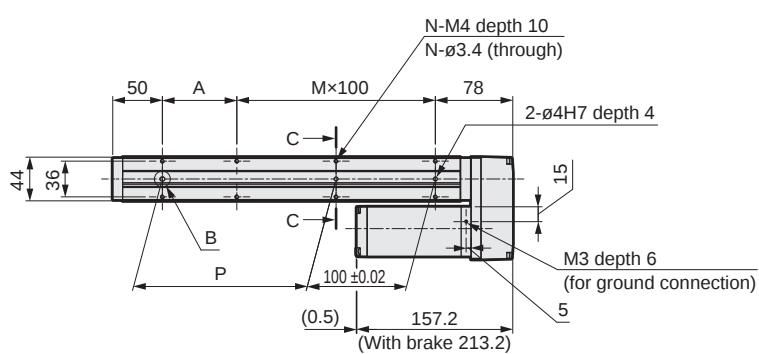
*1: Operating range to the mechanical stopper



Grease lubrication port
Same on reverse side



C-C cross-section (detail)



B part details

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

Notes

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



Electric actuator Slider

EBS-05*E

Straight motor mounting

☐ 42 Stepper motor

Battery-less absolute encoder

Incremental encoder



How to order

EBS - **05** **M** **E** - **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 Screw lead
02 2 mm
05 5 mm
10 10 mm
20 20 mm

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

F Brake *2
N None
B Yes

G Encoder *1
A Battery-less absolute encoder (for ECR)
B Battery-less absolute encoder (for ECG)
C Incremental encoder (for ECG)

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
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

[EBS-05M (applicable controller ECR)]

Motor	☐ 42 Stepper motor			
Encoder type	Battery-less absolute encoder			
Drive method	Ball screw ø12			
Stroke length mm	50 to 800			
Thread lead mm	2	5	10	20
Max. load capacity kg	Horizontal 45 (45)	40 (40)	35 (35)	16.6 (16.6)
*1 *2	Vertical 24 (24)	16.6 (16.6)	8.3 (8.3)	4.5 (4.5)
Operation speed range	2 to 130	6 to 300	12 to 700	25 to 1100
*3 *4	mm/s (70)	(250)	(600)	(900)
Maximum pressing force N	385	250	121	44
Press operation speed range mm/s	5 to 25	5 to 25	5 to 30	5 to 30
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% 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 42 for details.

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

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

[EBS-05G (applicable controller ECG)]

Motor	☐ 42 Stepper motor			
Encoder type	Battery-less absolute encoder/ incremental encoder			
Drive method	Ball screw ø12			
Stroke length mm	50 to 800			
Thread lead mm	2	5	10	20
Max. load capacity kg	Horizontal 45.0	40.0	27.5	18.3
*1	Vertical 18.3	14.0	7.0	2.5
Operation speed range*2 mm/s	2 to 120	6 to 290	12 to 500	25 to 850
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			
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		

*1 Load capacity varies according to acceleration/deceleration and speed.
Refer to page 44 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 EBS-**G is 10°C to 40°C.

Stroke and max. speed

[EBS-05M (applicable controller ECR)]

Thread lead	Power supply voltage	Stroke length (mm/s)						
		50 to 500	550	600	650	700	750	800
2	48 VDC	130	120	120	105	95	80	70
	24 VDC	70	70	70	70	70	70	70
5	48 VDC	300	300	300	270	235	200	185
	24 VDC	250	250	250	250	235	200	185
10	48 VDC	700	625	625	540	475	415	370
	24 VDC	600	600	600	540	475	415	370
20	48 VDC	1100	1100	1100	1080	950	830	740
	24 VDC	900	900	900	900	900	830	740

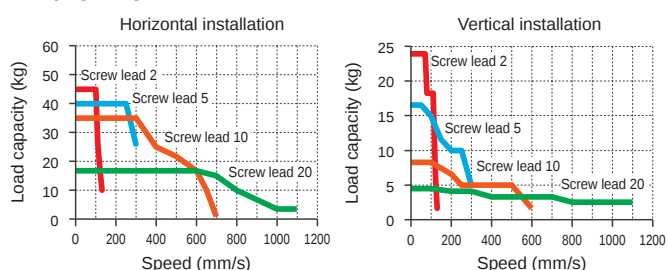
[EBS-05G (applicable controller ECG)]

Thread lead	Power supply voltage	Stroke length (mm/s)				
		50 to 600	650	700	750	800
2	24 VDC	120	105	95	80	70
5	24 VDC	290	270	235	200	185
10	24 VDC	500	500	475	415	370
20	24 VDC	850	850	850	850	740

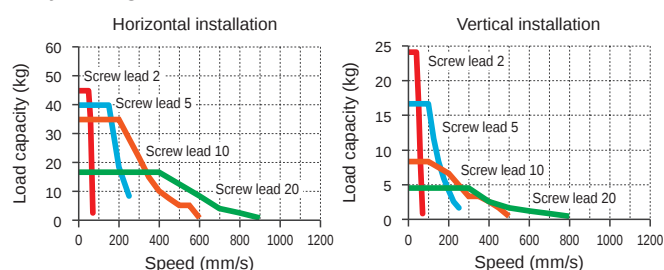
Speed and load capacity

[EBS-05M (applicable controller ECR)]

· At 48 VDC

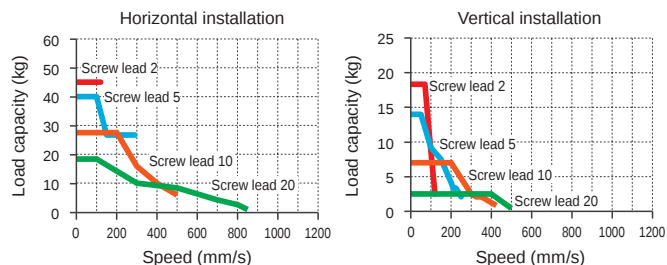


· At 24 VDC



[EBS-05G (applicable controller ECG)]

· At 24 VDC



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

* At acceleration of 0.3 G.

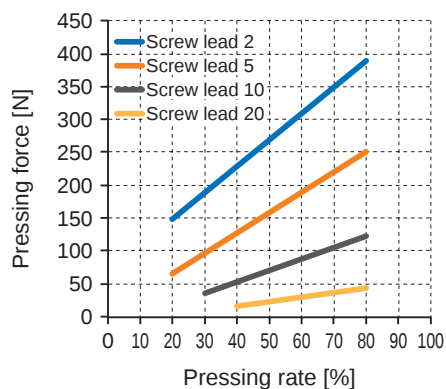
* Confirm each of the pages listed below for details.

ECR: Page 42

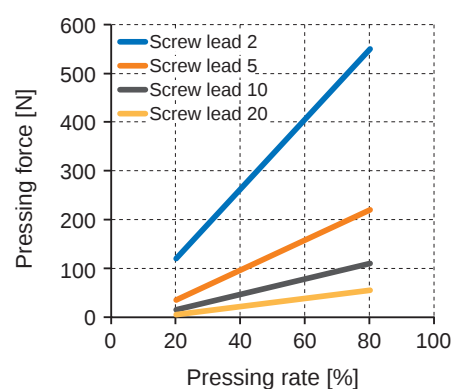
ECG: Page 44

Pressing force

[EBS-05M (applicable controller ECR)]



[EBS-05G (applicable controller ECG)]



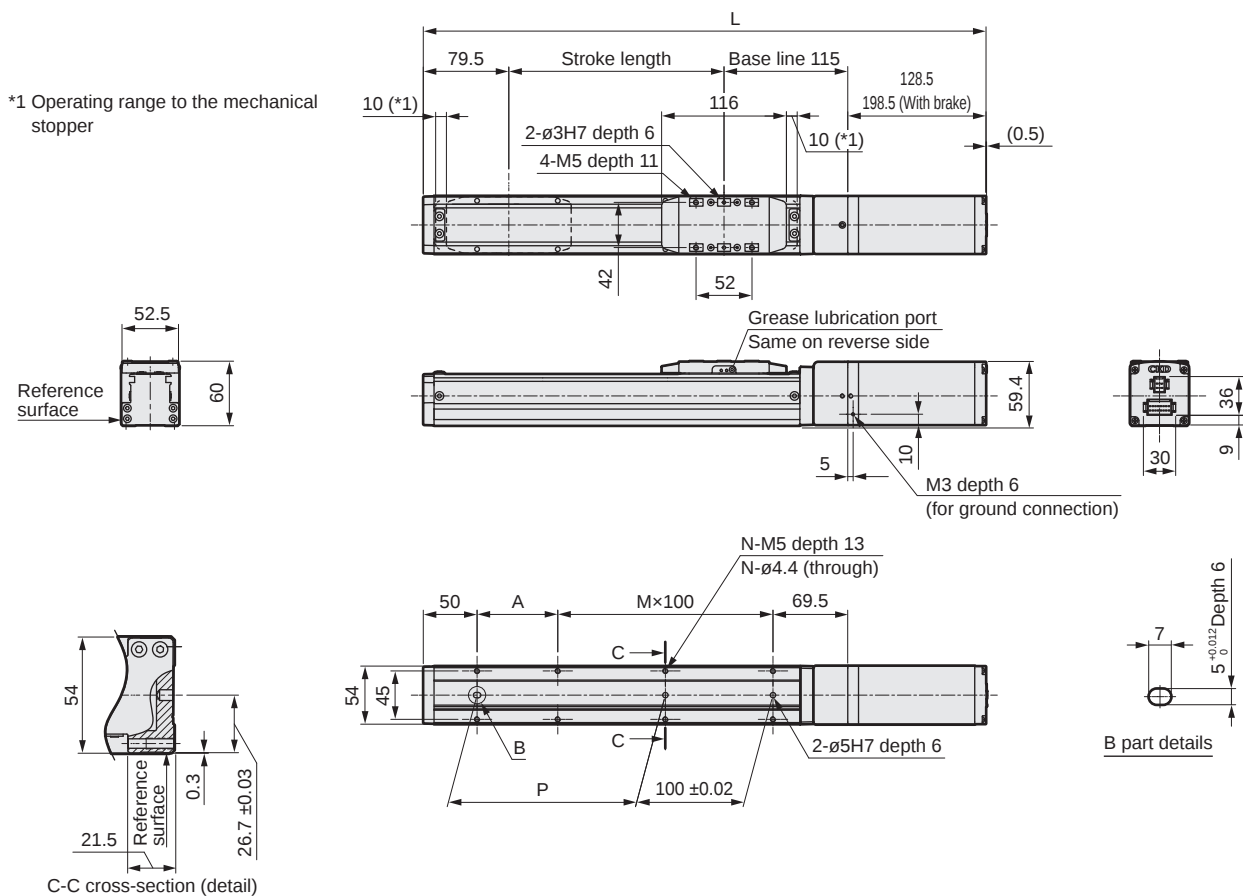
* The above pressing force is a reference value. Variation may occur according to conditions such as pressing speed.

EBS-05* E

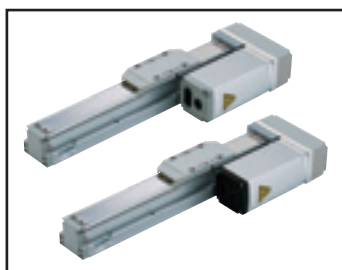
Dimensions: Straight motor mounting

● EBS-05*E

*1 Operating range to the mechanical stopper



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	5.0
	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	5.7



Electric actuator Slider

EBS-05**

Motor side mounting (left, right, bottom)

☐ 42 Stepper motor

Battery-less absolute encoder

Incremental encoder



How to order

EBS - **05** **M** **R** - **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

E Stroke length *2
0050 to 0800 50 mm (In 50 mm increments) 800 mm

F Brake *3
N None
B Yes

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

G Encoder *1
A Battery-less absolute encoder (for ECR)
B Battery-less absolute encoder (for ECG)
C Incremental encoder (for ECG)

H 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 "0800 (800 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

[EBS-05M (applicable controller ECR)]

Motor	☐ 42 Stepper motor			
Encoder type	Battery-less absolute encoder			
Drive method	Ball screw ø12			
Stroke length mm	50 to 800			
Thread lead mm	2	5	10	20
Max. load capacity kg	Horizontal 45 (45)	40 (40)	35 (35)	16.6 (16.6)
*1 *2	Vertical 24 (24)	16.6 (16.6)	8.3 (8.3)	4.5 (4.5)
Operation speed range mm/s	2 to 130 (70)	6 to 300 (250)	12 to 600 (500)	25 to 1100 (900)
*3 *4				
Maximum pressing force N	385	250	121	44
Press operation speed range mm/s	5 to 25	5 to 25	5 to 30	5 to 30
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% 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 42 for details.

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

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

[EBS-05G (applicable controller ECG)]

Motor	☐ 42 Stepper motor			
Encoder type	Battery-less absolute encoder/ incremental encoder			
Drive method	Ball screw ø12			
Stroke length mm	50 to 800			
Thread lead mm	2	5	10	20
Max. load capacity kg	Horizontal 45.0	40.0	27.5	18.3
*1	Vertical 18.3	10.0	3.3	0.8
Operation speed range*2 mm/s	2 to 100	6 to 250	12 to 400	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			
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

*1 Load capacity varies according to acceleration/deceleration and speed. Refer to page 44 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 EBS-**G is 10°C to 40°C.

Stroke and max. speed

[EBS-05M (applicable controller ECR)]

Thread lead	Power supply voltage	Stroke length (mm/s)						
		50 to 500	550	600	650	700	750	800
2	48 VDC	130	120	120	105	95	80	70
	24 VDC	70	70	70	70	70	70	70
5	48 VDC	300	300	300	270	235	200	185
	24 VDC	250	250	250	250	235	200	185
10	48 VDC	600	600	600	540	475	415	370
	24 VDC	500	500	500	500	475	415	370
20	48 VDC	1100	1100	1100	1080	950	830	740
	24 VDC	900	900	900	900	900	830	740

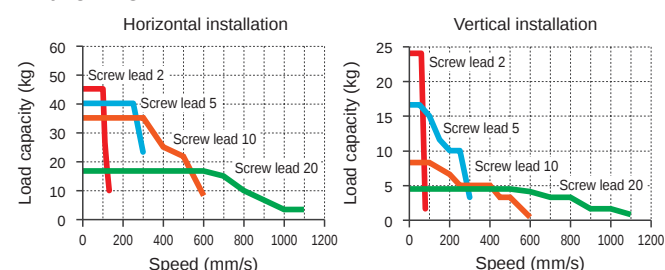
[EBS-05G (applicable controller ECG)]

Thread lead	Power supply voltage	Stroke length (mm/s)			
		50 to 650	700	750	800
2	24 VDC	100	95	80	70
5	24 VDC	250	235	200	185
10	24 VDC	400	400	400	370
20	24 VDC	700	700	700	700

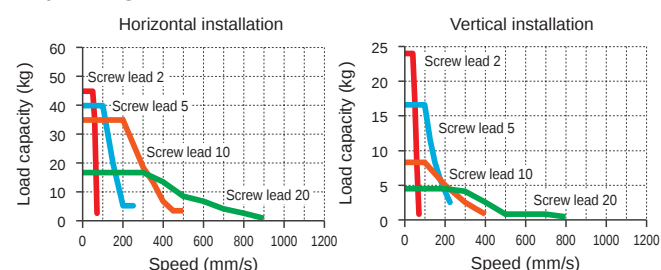
Speed and load capacity

[EBS-05M (applicable controller ECR)]

· At 48 VDC

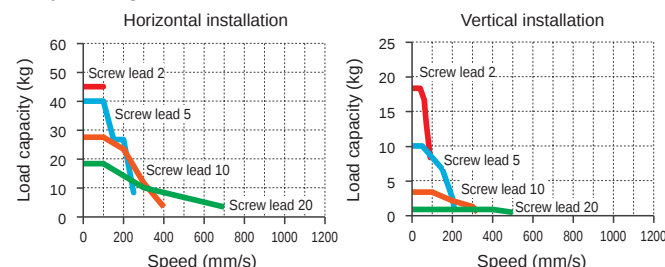


· At 24 VDC



[EBS-05G (applicable controller ECG)]

· At 24 VDC



* At acceleration of 0.3 G.

* Confirm each of the pages listed below for details.

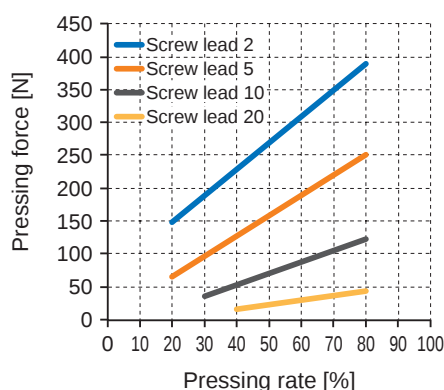
ECR: Page 42

ECG: Page 44

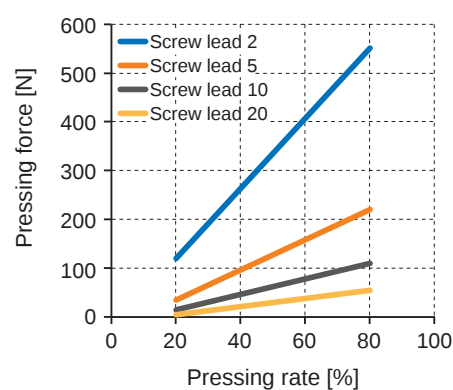
* Incorrectly applying a 48 VDC power supply could result in damage.

Pressing force

[EBS-05M (applicable controller ECR)]



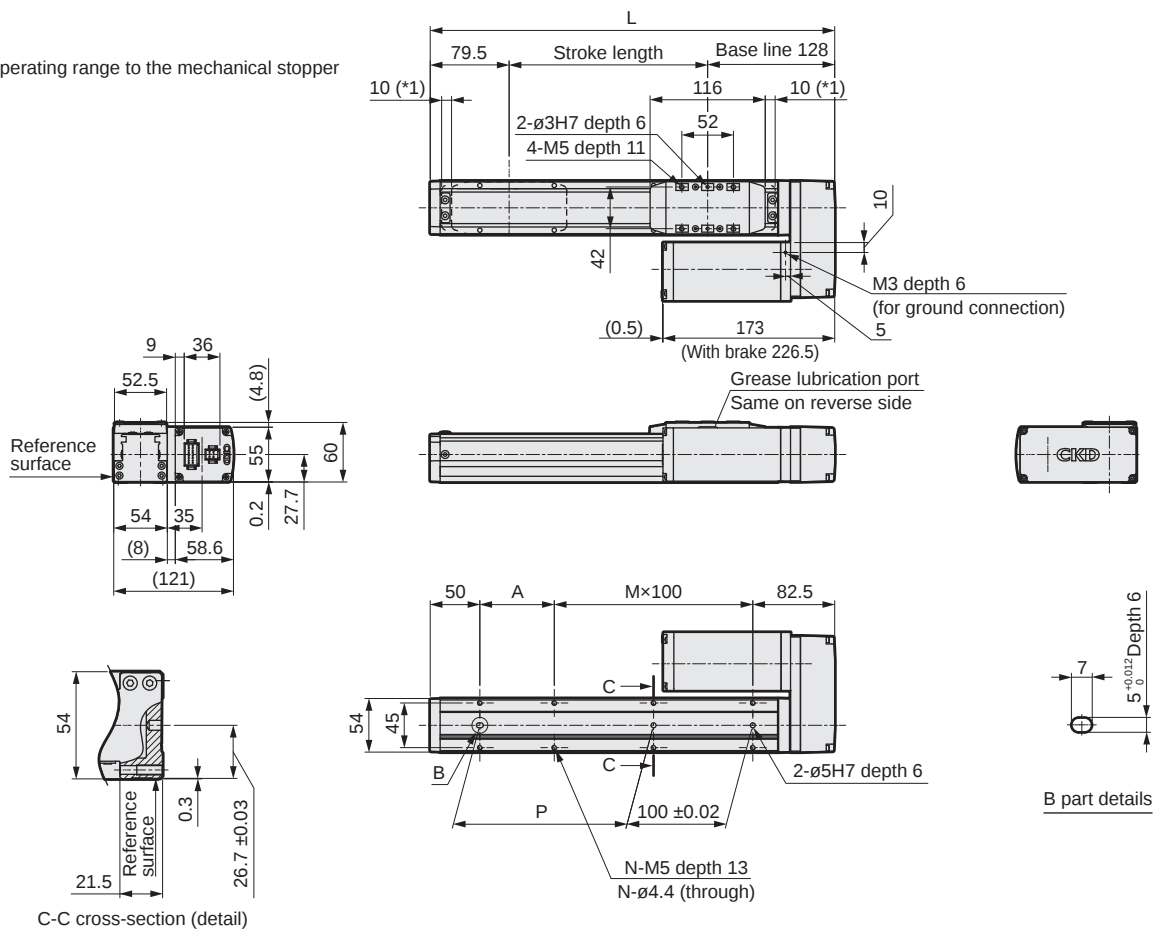
[EBS-05G (applicable controller ECG)]



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

● EBS-05*R

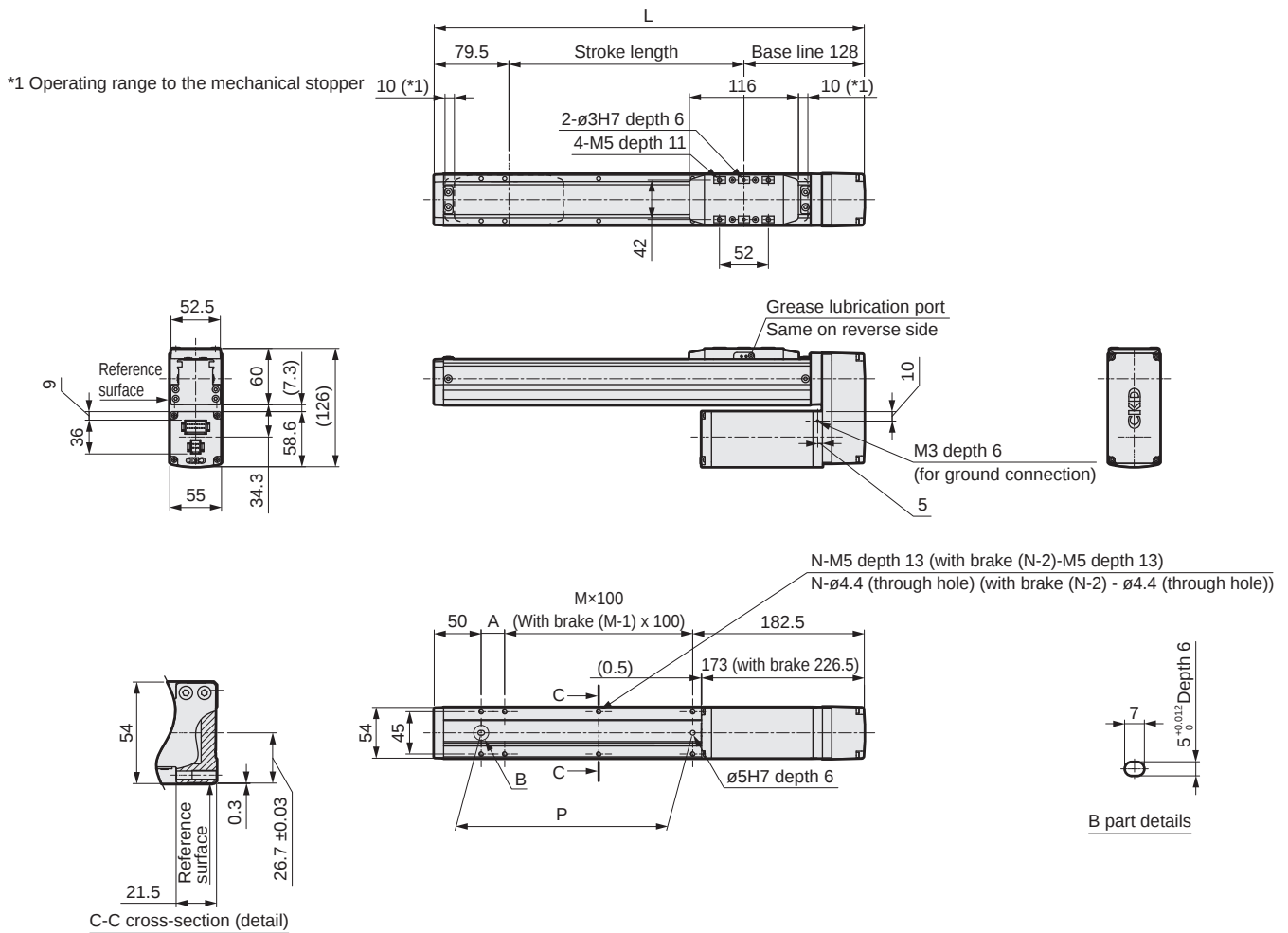
*1 Operating range to the mechanical stopper



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

Dimensions: Motor bottom mounting

● EBS-05*D



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

EBS
(With motor)

EBR
(With motor)

ECR
(Controller)

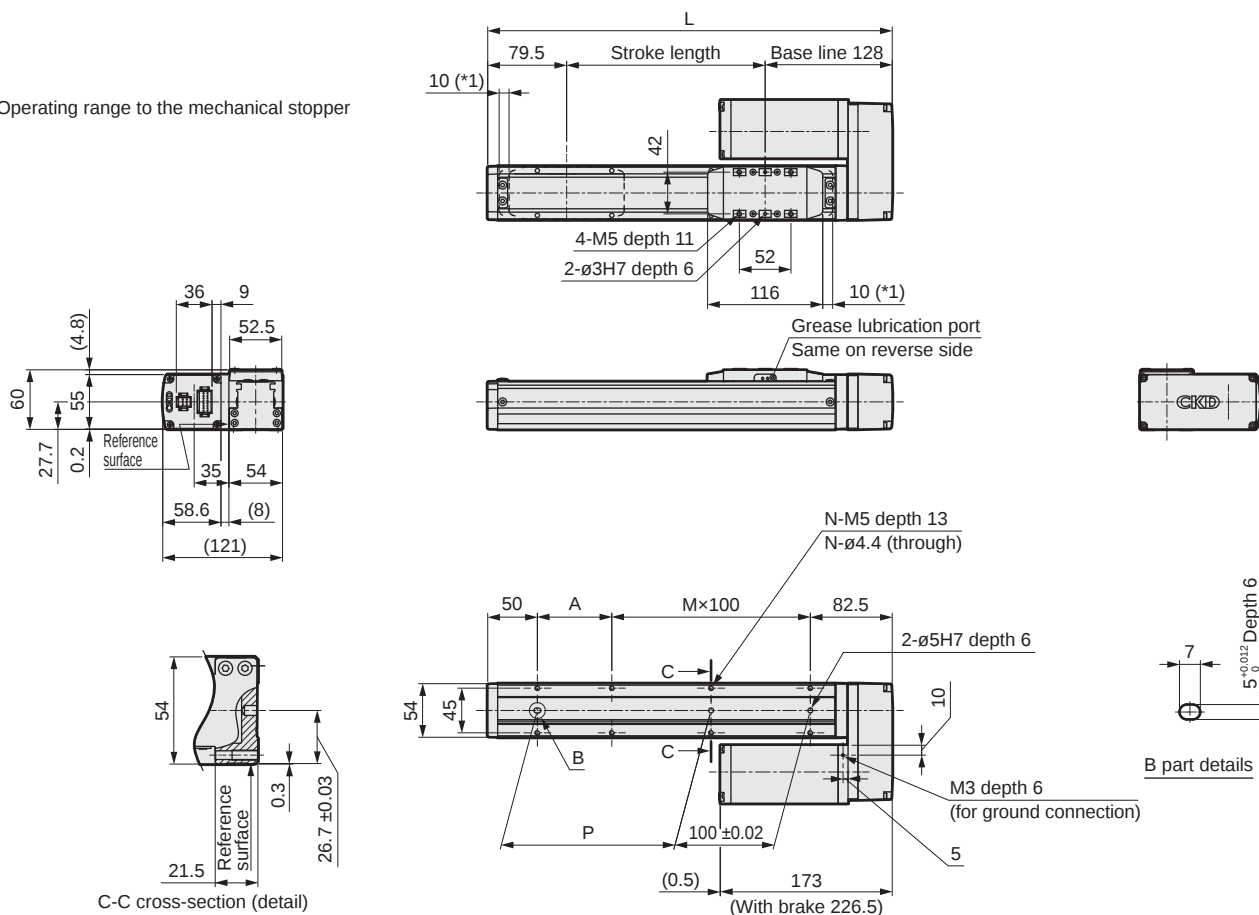
ECG-A
(Controller)

Safety
precautions

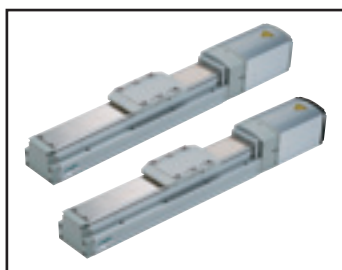
Dimensions: Motor left-side mounting

● EBS-05*L

*1 Operating range to the mechanical stopper



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



Electric actuator Slider

EBS-08*E

Straight motor mounting

☐ 56 Stepper motor

Battery-less absolute encoder

Incremental encoder



How to order

EBS - **08** **M** **E** - **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 Screw lead
05 5 mm
10 10 mm
20 20 mm

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

F Brake *2
N None
B Yes

G Encoder *1
A Battery-less absolute encoder (for ECR)
B Battery-less absolute encoder (for ECG)
C Incremental encoder (for ECG)

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
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

[EBS-08M (applicable controller ECR)]

Motor	☐ 56 Stepper motor		
Encoder type	Battery-less absolute encoder		
Drive method	Ball screw ø16		
Stroke length mm	50 to 1100		
Thread lead mm	5	10	20
Max. load capacity kg	Horizontal	80 (80)	70 (70)
*1 *2	Vertical	40 (38.3)	18.3 (18.3)
Operation speed range	6 to 250	12 to 550	25 to 1100
*3 *4	mm/s	(150)	(300)
Maximum pressing force N	970	477	250
Press operation speed range mm/s	5 to 25	5 to 30	5 to 30
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% 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 42 for details.

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

*4 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

[EBS-08G (applicable controller ECG)]

Motor	☐ 56 Stepper motor		
Encoder type	Battery-less absolute encoder Incremental encoder		
Drive method	Ball screw ø16		
Stroke length mm	50 to 1100		
Thread lead mm	5	10	20
Max. load capacity kg	Horizontal	80.0	70.0
*1	Vertical	43.3	28.3
Operation speed range	6 to 150	12 to 250	25 to 500
*2	mm/s		
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		
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	

*1 Load capacity varies according to acceleration/deceleration and speed. Refer to page 44 for details.

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

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

Stroke and max. speed

[EBS-08M (applicable controller ECR)]

(mm/s)

Thread lead	Power supply voltage	Stroke length										
		50 to 600	650	700	750	800	850	900	950	1000	1050	1100
5	48 VDC	250	250	250	250	220	200	180	135	120	110	100
	24 VDC	150	150	150	150	150	150	150	135	120	110	100
10	48 VDC	550	550	550	510	450	410	370	270	240	225	200
	24 VDC	300	300	300	300	300	300	300	270	240	225	200
20	48 VDC	1100	1000	1000	1000	910	820	740	540	490	450	410
	24 VDC	600	600	600	600	600	600	600	540	490	450	410

[EBS-08G (applicable controller ECG)]

(mm/s)

Thread lead	Power supply voltage	Stroke length				
		50 to 900	950	1000	1050	1100
5	24 VDC	150	135	120	110	100
10	24 VDC	250	250	240	225	200
20	24 VDC	500	500	490	450	410

EBS
(With motor)

EBS
(With motor)

ECR
(Controller)

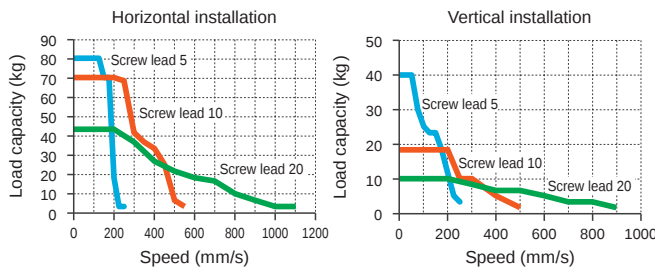
ECG-A
(Controller)

Safety
precautions

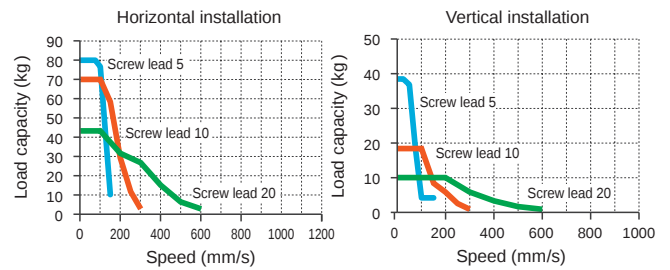
Speed and load capacity

[EBS-08M (applicable controller ECR)]

· At 48 VDC

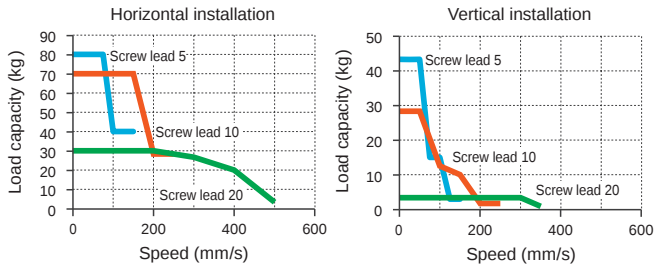


· At 24 VDC



[EBS-08G (applicable controller ECG)]

· At 24 VDC



* At acceleration of 0.3 G.

* Confirm each of the pages listed below for details.

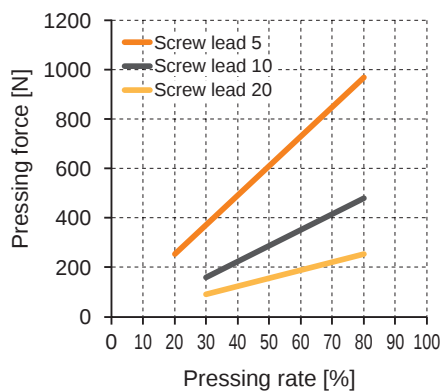
ECR: Page 42

ECG: Page 44

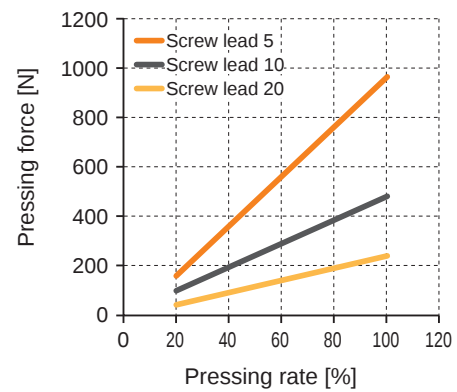
* Incorrectly applying a 48 VDC power supply could result in damage.

Pressing force

[EBS-08M (applicable controller ECR)]



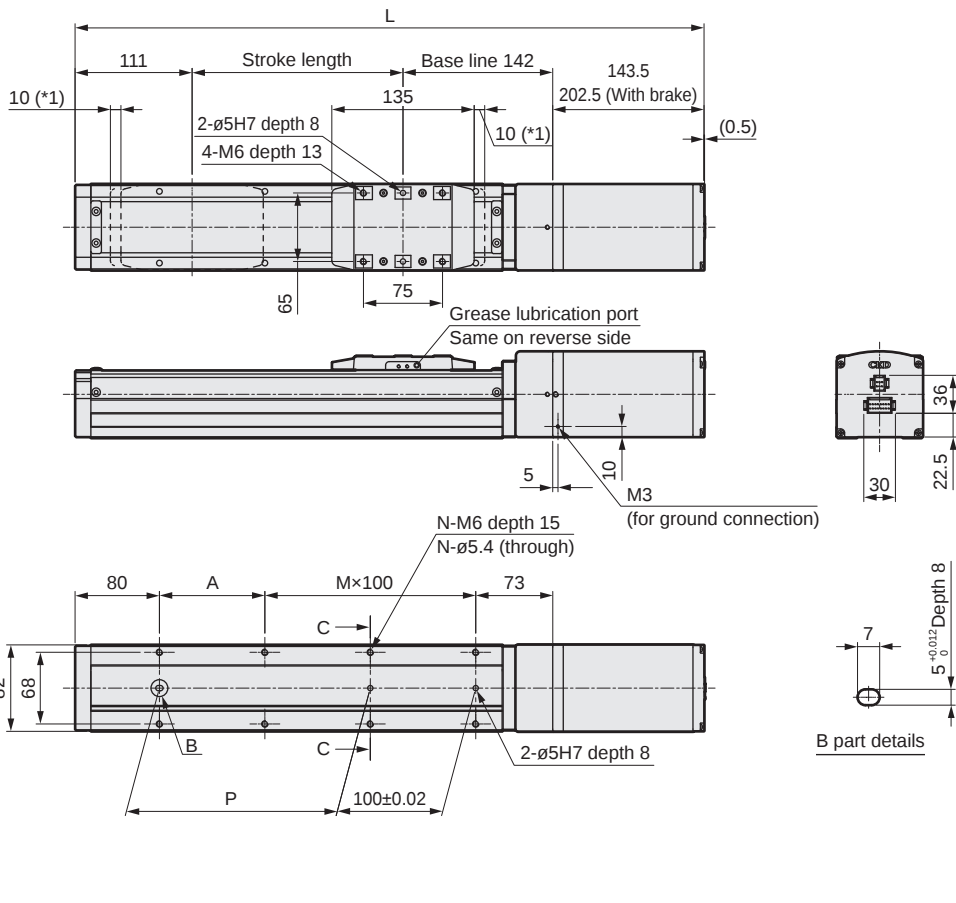
[EBS-08G (applicable controller ECG)]



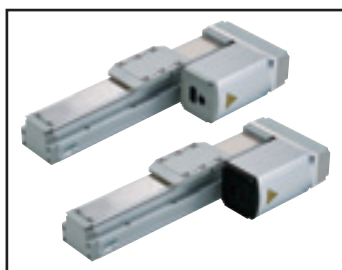
* The above pressing force is a reference value. Variation may occur according to conditions such as pressing speed.

● EBS-08*E

*1 Operating range to the mechanical stopper



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



Electric actuator Slider

EBS-08**

Motor side mounting (left, right, bottom)

☐ 56 Stepper motor

Battery-less absolute encoder

Incremental encoder



How to order

EBS - **08** **M** **R** - **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 Stroke length *2
0050 to 1100 50 mm (In 50 mm increments) 1100 mm

F Brake *3
N None
B Yes

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

G Encoder *1
A Battery-less absolute encoder (for ECR)
B Battery-less absolute encoder (for ECG)
C Incremental encoder (for ECG)

H 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 "1100 (1100 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

[EBS-08M (applicable controller ECR)]

Motor	☐ 56 Stepper motor		
Encoder type	Battery-less absolute encoder		
Drive method	Ball screw $\varnothing$ 16		
Stroke length mm	50 to 1100		
Thread lead mm	5	10	20
Max. load capacity kg	Horizontal	80 (80)	70 (70)
*1 *2	Vertical	40 (36.6)	18.3 (16.6)
Operation speed range mm/s	6 to 225 (100)	12 to 550 (300)	25 to 1000 (500)
*3 *4			
Maximum pressing force N	970	477	250
Press operation speed range mm/s	5 to 25	5 to 30	5 to 30
Repeatability mm	$\pm$ 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 $\pm$ 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 42 for details.

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

*4 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

[EBS-08G (applicable controller ECG)]

Motor	☐ 56 Stepper motor		
Encoder type	Battery-less absolute encoder Incremental encoder		
Drive method	Ball screw $\varnothing$ 16		
Stroke length mm	50 to 1100		
Thread lead mm	5	10	20
Max. load capacity kg	Horizontal	80.0	70.0
*1	Vertical	33.3	18.3
Operation speed range mm/s	6 to 125	12 to 250	25 to 400
*2			
Maximum pressing force N	965	482	241
Press operation speed range mm/s	5 to 20	5 to 20	5 to 20
Repeatability mm	$\pm$ 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 $\pm$ 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 44 for details.

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

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

Stroke and max. speed

[EBS-08M (applicable controller ECR)]

Thread lead	Power supply voltage	Stroke length (mm/s)								
		50 to 700	750	800	850	900	950	1000	1050	1100
5	48 VDC	225	225	220	200	180	135	120	110	100
	24 VDC	100	100	100	100	100	100	100	100	100
10	48 VDC	550	510	450	410	370	270	240	225	200
	24 VDC	300	300	300	300	300	270	240	225	200
20	48 VDC	1000	1000	910	820	740	540	490	450	410
	24 VDC	500	500	500	500	500	500	490	450	410

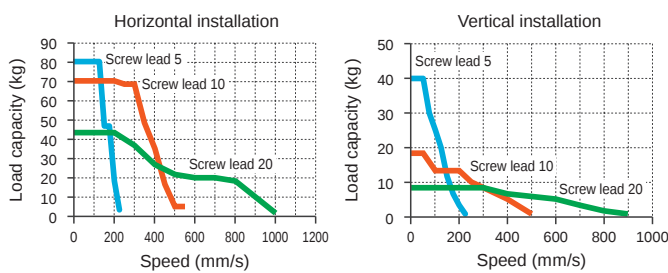
[EBS-08G (applicable controller ECG)]

Thread lead	Power supply voltage	Stroke length (mm/s)			
		50 to 600	1000	1050	1100
5	24 VDC	125	120	110	100
10	24 VDC	250	240	225	200
20	24 VDC	400	400	400	400

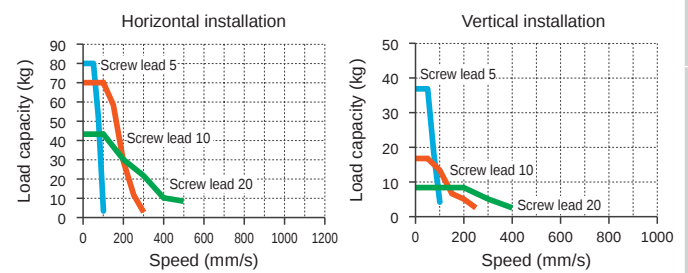
Speed and load capacity

[EBS-08M (applicable controller ECR)]

· At 48 VDC

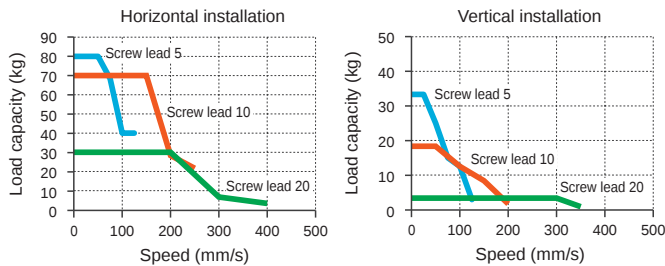


· At 24 VDC



[EBS-08G (applicable controller ECG)]

· At 24 VDC



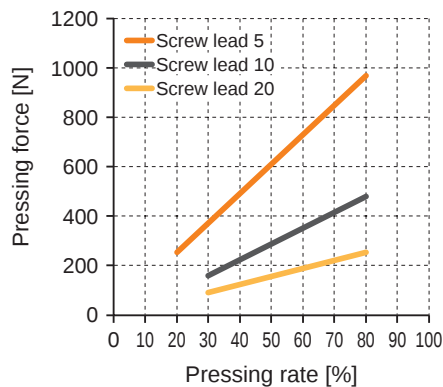
* At acceleration of 0.3 G.

* Confirm each of the pages listed below for details.
ECR: Page 42
ECG: Page 44

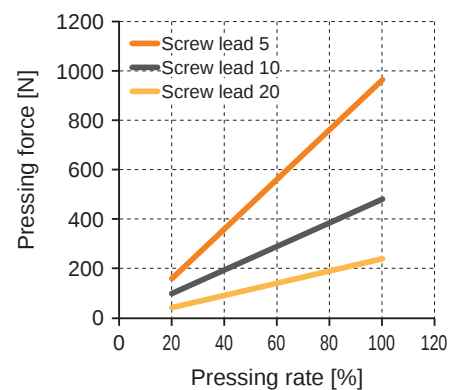
* Incorrectly applying a 48 VDC power supply could result in damage.

Pressing force

[EBS-08M (applicable controller ECR)]



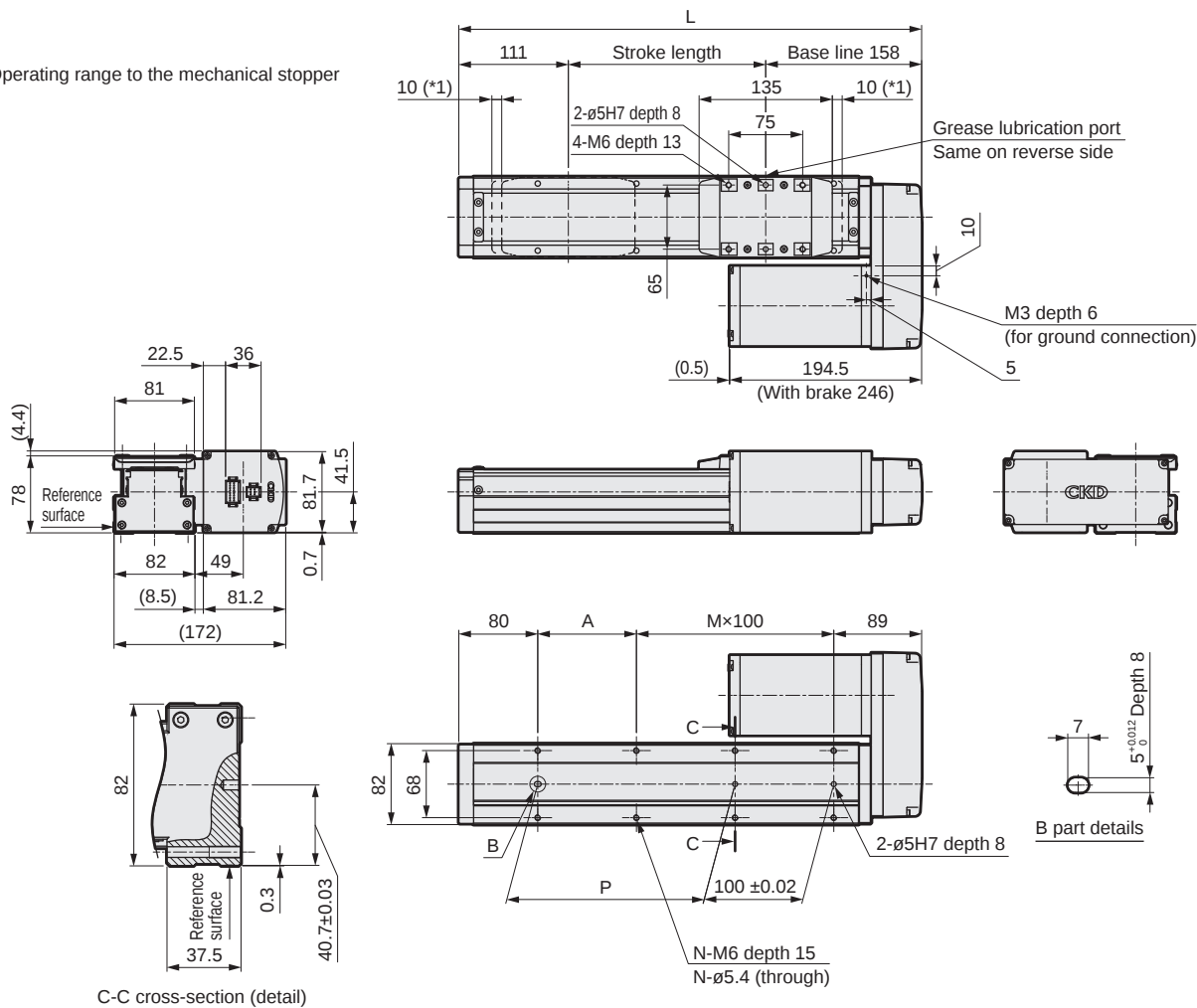
[EBS-08G (applicable controller ECG)]



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

● EBS-08*R

*1 Operating range to the mechanical stopper



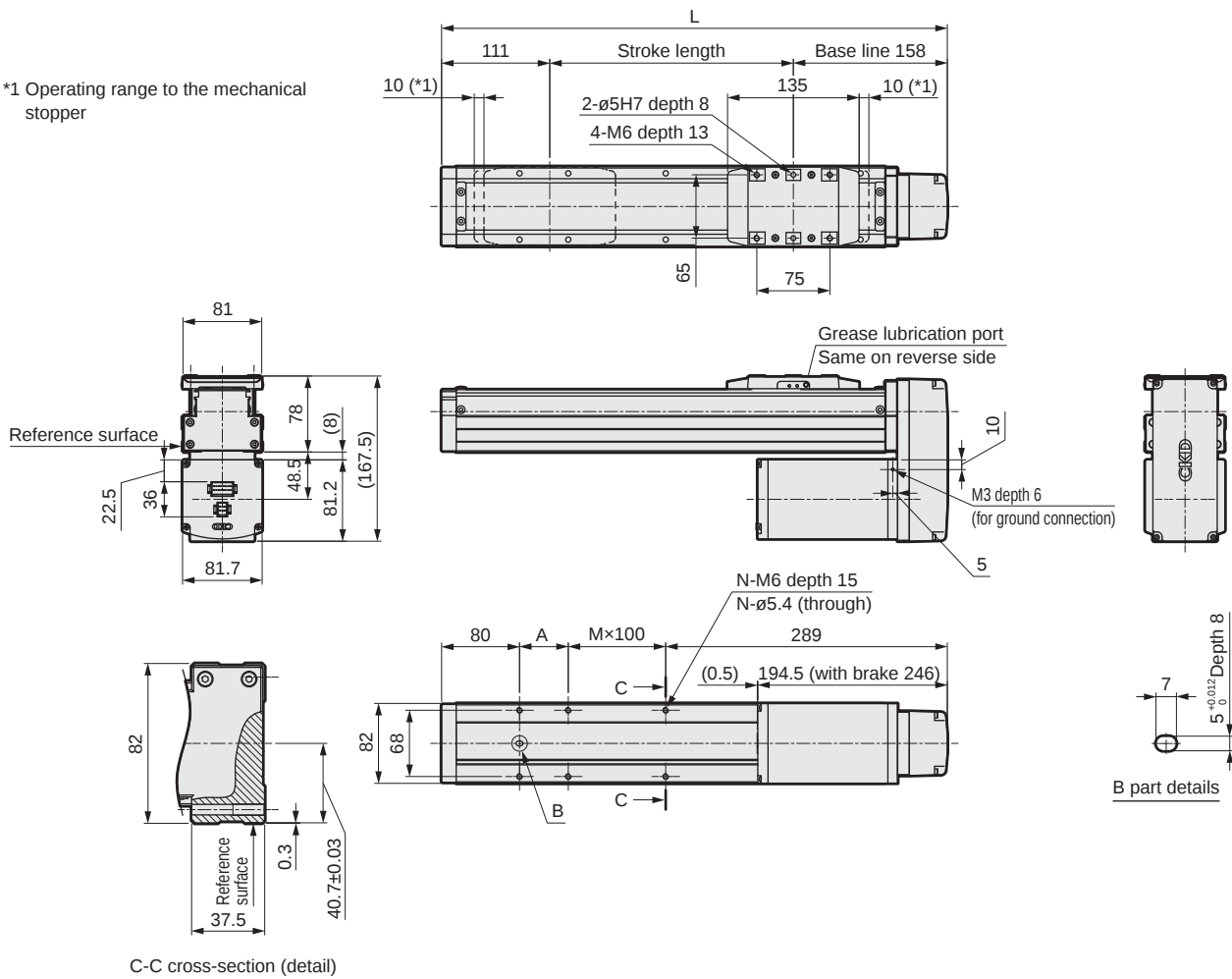
Stroke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800
Stroke length (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	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

Dimensions: Motor bottom mounting

● EBS-08*D

*1 Operating range to the mechanical stopper



Stroke code	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800	0850	0900	0950	1000
Stroke length (mm)	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269
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
Weight (kg)	Without brake	7.2	7.5	7.8	8.2	8.5	8.8	9.2	9.5	9.9	10.2	10.5	10.8	11.2	11.4	11.8
	With brake	8.5	8.8	9.1	9.5	9.8	10.1	10.5	10.8	11.2	11.5	11.8	12.1	12.5	12.7	13.1

Stroke code		1050	1100
Stroke length (mm)		1050	1100
L		1319	1369
A		50	100
M		9	9
N		22	22
Weight (kg)	Without brake	12.5	12.9
	With brake	13.8	14.2

EBS
(With motor)

EBR
(With motor)

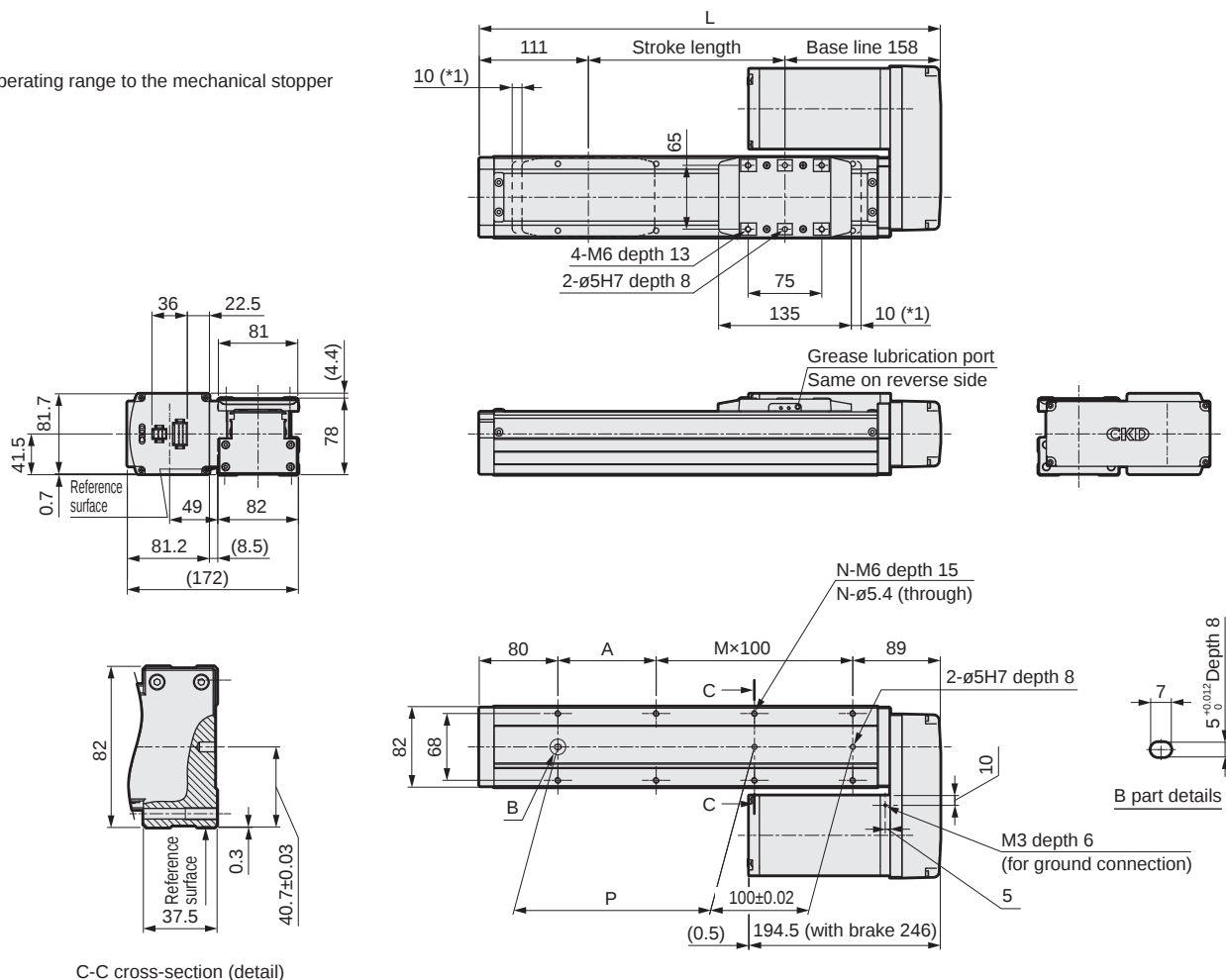
ECR
(Controller)

ECG-A
(Controller)

Safety
precautions

● EBS-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	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

Notes

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