

Electric actuator

EJSG Series

EJSG-G Series (dust-proof specifications)

EJSG-C Series (low dust specification)

EJSG-P4 Series (compatible with rechargeable battery manufacturing processes)

EJSG-FP1 Series (compatible with food manufacturing processes)

Electric actuators for usage in various environments



ROBODEX Pulse

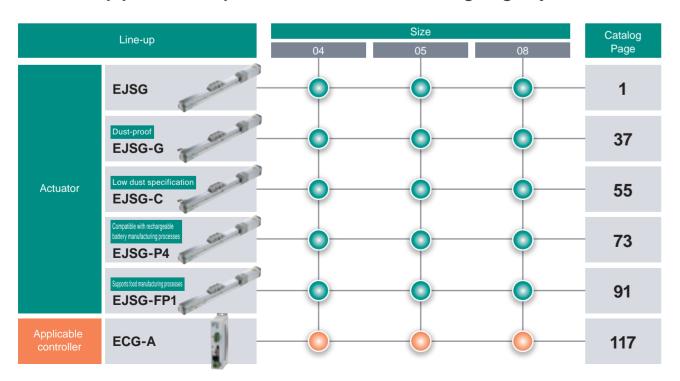
CKD Corporation

ROBODEX Pulse

To be used safely in various environments and processes



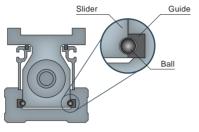
Five line-up products in pursuit of ease of use and high rigidity are available

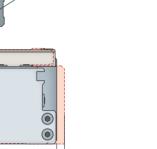


Compact body with high rigidity

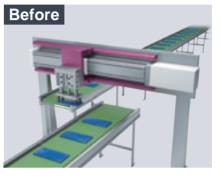


An outer rail is used for the guide which supports loads. The wide guide is integrated with the body to achieve both high rigidity and space saving.





		Conventional product	EJSG-05
Body width		64 mm	54 mm
Static	MP	25.7 N⋅m	103 N⋅m
allowable MY		25.7 N⋅m	103 N⋅m
moment	MR	58 N⋅m	144 N⋅m



Uses an additional guide to reduce moment



Highly rigid body supports the moment, eliminating the need for an additional guide

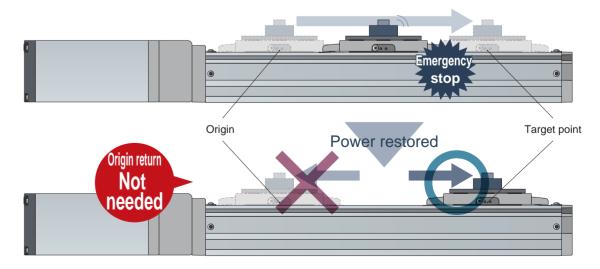
Battery-less absolute encoder





Equipped with an absolute encoder that retains current position information. As it uses a battery-less specification, there is no need to replace the battery.

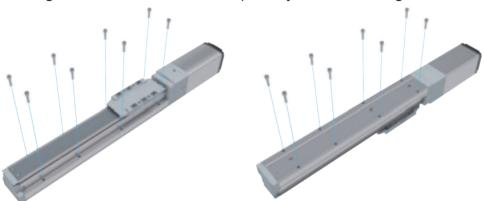
* All series with options

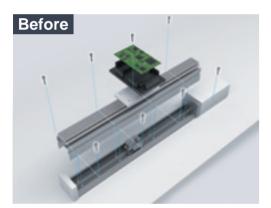


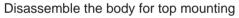
Mounting holes provided on top and bottom

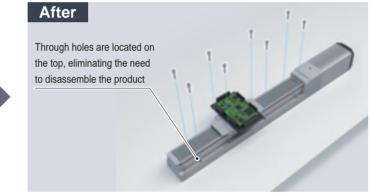


The product structure allows direct installation from the top or bottom, without disassembly. This can save a significant amount of time, especially when installing from the top.









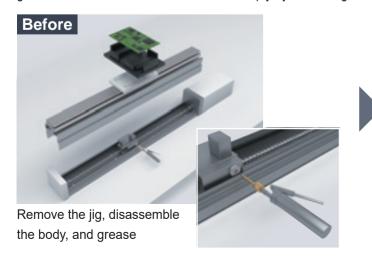
Top mounting without disassembly of body

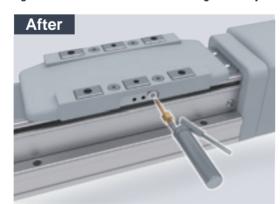
Equipped with an external grease lubrication port





The product comes equipped with a lubrication port on both sides to allow direct lubrication from the exterior. Both the guide and ball screw can be maintained simply by lubricating from a single location, without disassembling the body.





Direct lubrication from outside

Replaceable motor unit



Motor units can be replaced. Maintenance is easy.

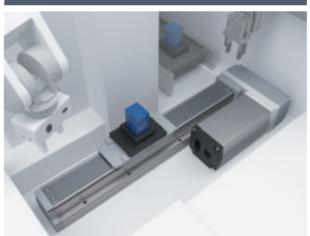


Available as made to order actuators



Consult with CKD if you have any problems with the actuator dimensions, etc. *Made-to-order product.

Custom Stroke *10mm increments



When using the product for limited space

Changing a machining hole position

When changing the positioning pin hole position

Applicable controller

ECG-A

Single axis controller that can control slider and rod actuators.



PIO















Electric actuator with long service life in dusty environments



Improved durability in dusty environments



or more

conventiona

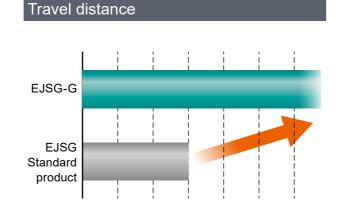
Compatible with protection degree IP50. Durability in dusty environments has been greatly improved compared to standard products.



Running tests in dusty environments

[Test conditions]

	ltem	Description				
	Model No.	EJSG-05E100600NBN-VCN00-G				
test	Speed	400 mm/s				
Sample	Acceleration/deceleration	0.6G				
	Purge flow rate	40NL/min				
	Dust material	Kanto-rohm (seven types)				
Environment	Dust diameter	75 μm				
	Dust float	2kg/m³				



Electric actuator ideal for clean environments



Electric actuator ideal for rechargeable battery manufacturing processes



Electric actuator ideal for food manufacturing processes



EJSG

EJSG-0

EJSG-

EJSG

Slider

Electric actuator Motor specification

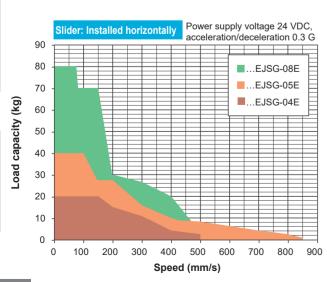


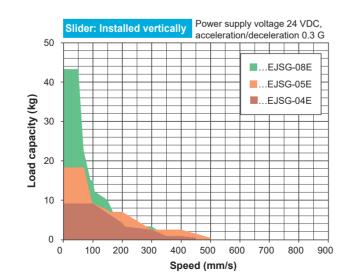
CONTENTS Product introduction Intro Series variation 2 Specifications/How to order/Dimensions • EJSG-04-* 6 • EJSG-05-* 16 • EJSG-08-* 26 Model selection 108 Technical data 110 ▲ Safety precautions 132 Model Selection Check Sheet 140

Series variation

oller			Motor	Motor	Body	Screw lead	Max. load	~\\	Max. Pressing		Stroke (mm) and max. speed (mm/s)			Listed							
Controller	Actuator Mo	del No.	Motor Size	Mounting Direction	(mm)	lead (mm)	Horizontal	Vertical	force (N)	r	50 100 150 200	250 300 350 400	450 500 550	600 650	700 7	50 80	0 850 900	950 1000	1050 1100	1150 120	page
		EJSG-04E06		Straight		6	20.0	9.2	155			320 mm/s		290 250	220 1	90 170					6
		EJSG-04E12	- □ 35	Stra	44	12	15.0	3.3	77			500			440 3	90 340					
		EJSG-04R/D/L06		Left/Right/ Bottom	44	6	20.0	9.2	155			250			220 1	90 170					10
CKD		EJSG-04R/D/L12		Left/F Botl		12	11.7	3.3	77			400			3	90 340					
COM E		EJSG-05E05		#		5	40.0	14.0	220			290		260 225	200 1	75 150					
COL COLO		EJSG-05E10		Straight		10	27.5	7.0	110			500		455	400 3	55 315					16
		EJSG-05E20	- □ 42		- 54	20	18.3	2.5	55			850			800 7	10 630					
		EJSG-05R/D/L05	42		34	5	40.0	10.0	220			250		225	200 1	75 150					
		EJSG-05R/D/L10		Left/Right/ Bottom		10	27.5	3.3	110			400			3	55 315					20
CKD with Asia		EJSG-05R/D/L20		Leg		20	18.3	0.8	55			700				630					
ON		EJSG-08E05		¥		5	80.0	43.3	965				150					145 130	120 110		
One of		EJSG-08E10		Straight		10	70.0	28.3	482				250						240 220		26
■ JF		EJSG-08E20			82	20	30.0	3.3	241				500						480 440		
		EJSG-08R/D/L05	- □ 56	1	82	5	80.0	33.3	965				125						120 110		
ECG Series		EJSG-08R/D/L10		Left/Right/ Bottom		10	70.0	18.3	482			 	250						240 220		30
	1	EJSG-08R/D/L20		Let		20	30.0	3.3	241			 	40	0							

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





CKD

EJSG

Applicable controller ECG Series

EJSG

05

0

2

10

3

0100

4

N

6

6

C

S03

FP₁

Supports food

manufacturing processes

Model No. configuration

Notes

EJSG

JSG-G

EJSG-C

EJSG-P4

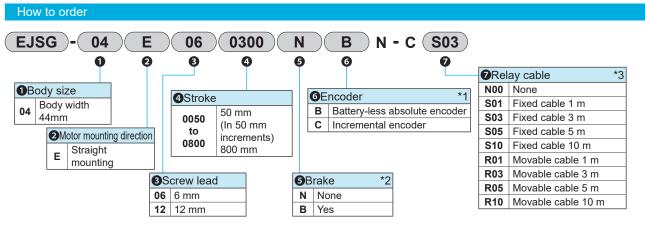




Straight motor mounting

☐35 stepper motor





- *1 Select the controller from page 117. *2 When using vertically, select "Yes".
- *3 Refer to page 128 for relay cable dimensions.

EAR-compliant product (EAR99-embedded product)

Specifications

Supported co	ontrollers	ECG-A					
Motor		□35 Stepp	ping motor				
Encoder type	Э	Battery-less absolute encoder Incremental encoder					
Drive method	d	Ball scr	rew ø10				
Stroke	mr	50 to	800				
Screw lead	mr	6	12				
Max. workloa	ad kg Horizonta	20.0	15.0				
*1	Vertica	9.2	3.3				
Operation sp	eed range *2 mm/	7 to 320	15 to 500				
Max. acceler		0.7	0.7				
deceleration	G Vertica	0.3	0.3				
Maximum pu	shing force	155	77				
Pressing opera	ation speed rangemm/	5 to 20	5 to 20				
Repeatability	/ mr	±0	.01				
Lost motion	mr	0.1 or less					
Static allowa	ble moment N·r	MP:62 MY	MP:62 MY:62 MR:92				
Motor power	supply voltage	24 VD0	C ±10%				
	Model, power supply voltage	Non-excitation opera	ation, 24 VDC ±10%				
Brake	Power consumption V	6	.1				
	Holding force	140	70				
Insulation re	sistance	10 ΜΩ, ξ	500 VDC				
Withstand vo	oltage	500 VAC fo	or 1 minute				
Operating ambie	ent temperature, humidit	10 to 40 °C (no freezing) 35 to 80% RH (no condensation)					
Storage ambier	nt temperature, humidit	-10 to 50°C (no freezing) 35 to 80% RH (no condensation)					
Atmosphere		No corrosive gas, ex	No corrosive gas, explosive gas, or dust				

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 7 for details.

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

Stroke and max. speed

(mm/s)

Screw		S	troke			
lead	50 to 550	600	650	700	750	800
6	320	290	250	220	190	170
12	500	500	500	440	390	340

Speed and load capacity

[When installed horizontally]

(kg)

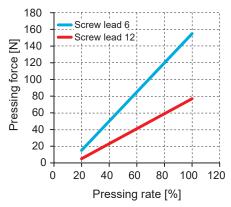
Acceleration/deceleration (G)							
0	.3	0.7					
	Screw le	ad (mm)					
6	12	6	12				
20.0		20.0					
20.0	15.0	20.0	15.0				
20.0	15.0	20.0	15.0				
20.0	15.0	20.0	15.0				
20.0	15.0	12.5	10.8				
15.0	15.0	12.5	10.8				
11.7	10.8	11.7	8.3				
7.5	10.8	7.5	8.3				
7.5	4.2	7.5	4.2				
	4.2		4.2				
	2.5		2.5				
	6 20.0 20.0 20.0 20.0 20.0 15.0 11.7 7.5	0.3 Screw le 6 12 20.0 20.0 15.0 20.0 15.0 20.0 15.0 15.0 15.0 15.0 15.0 11.7 10.8 7.5 10.8 7.5 4.2 4.2	0.3 0 Screw lead (mm) 6 12 6 20.0 20.0 20.0 20.0 15.0 20.0 20.0 15.0 20.0 20.0 15.0 12.5 15.0 15.0 12.5 11.7 10.8 11.7 7.5 10.8 7.5 7.5 4.2 7.5 4.2 7.5				

[When installed vertically]

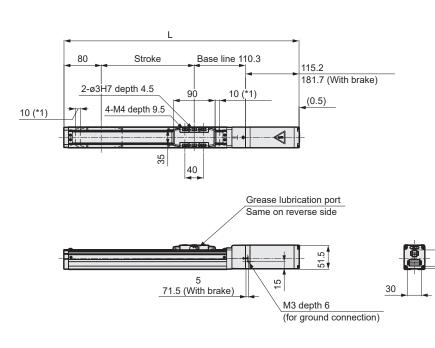
(kg)

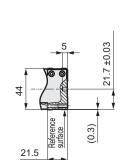
	Acceleration/deceleration (G)					
	0.3					
Speed	Screw le	ad (mm)				
(mm/s)	6	12				
7	9.2					
15	9.2	3.3				
50	9.2	3.3				
100	9.2	3.3				
150	6.7	3.3				
200	4.2	3.3				
225	1.7	2.5				
250	1.7	2.5				
275	0.4	2.5				
300		2.5				
350		0.8				
400		0.8				
450		0.4				

Pressing force



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



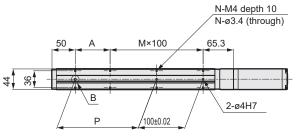


42.6

52

Reference

surface





Note 1: Operating range to the mechanical stopper

	Stro	ke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800
	Stro	ke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
		Without brake	355.5	405.5	455.5	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
		With brake	422	472	522	572	622	672	722	772	822	872	922	972	1022	1072	1122	1172
		Α	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
		Р	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
\	Veight	Without brake	1.6	1.7	1.8	1.9	2.0	2.2	2.3	2.4	2.5	2.6	2.8	2.9	3.0	3.1	3.2	3.4
	(kg)	With brake	2.0	2.1	2.2	2.3	2.5	2.6	2.7	2.8	2.9	3.1	3.2	3.3	3.4	3.5	3.7	3.8

Notes

EJSG

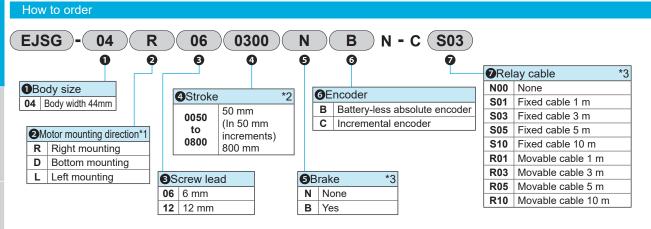




Motor side mounting (left, right, bottom)

☐35 Stepping motor





- *1 Select the controller from page 117.
- *2 When selecting the motor mounting direction "D", the stroke is "0250 (250 mm)" to "0800(800mm)" is the selection.
- *3 When using vertically, select "Yes"
- *4 Refer to page 128 for relay cable dimensions.

EAR-compliant product (EAR99-embedded product)

Specifications

Supported controllers	ECG-A					
Motor	□35 Stepp	ping motor				
Encoder type	Battery-less absolute encoder Incremental encoder					
Drive method	Ball scr	ew ø10				
Stroke mm	50 to	800				
Screw lead mm	6	12				
Max. workload kg Horizontal	20.0	11.7				
*1 Vertical	9.2	3.3				
Operation speed range *2 mm/s	7 to 250	15 to 400				
Max. acceleration/ Horizontal	0.7	0.7				
deceleration G Vertical	0.3	0.3				
Maximum pushing force N	155	77				
Pressing operation speed rangemm/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	C ±10%				
Model, power supply voltage	Non-excitation opera	ation, 24 VDC ±10%				
Brake Power consumptionW	6.	1				
Holding force N	140	70				
Insulation resistance	10 MΩ, 5	500 VDC				
Withstand voltage	500 VAC fo	or 1 minute				
Operating ambient temperature, humidity	10 to 40 °C (no freezing) 35 to 80% RH (no condensation)					
Storage ambient temperature, humidity	-10 to 50°C (no freezing) 35 to 80% RH (no condensation)					
Atmosphere	No corrosive gas, explosive gas, or dust					

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 11 for details.

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

Stroke and max. speed

(mm/s)

Screw	Stroke						
lead	50 to 650	700	750	800			
6	250	220	190	170			
12	400	400	390	340			

Speed and load capacity

[When installed horizontally]

(kg)

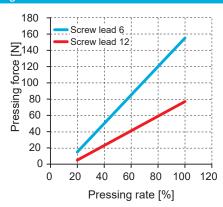
	Acceleration/deceleration (G)							
	0.	.3	0.7					
Speed		Screw le	ad (mm)					
(mm/s)	6	12	6	12				
7	20.0		20.0					
15	20.0	11.7	20.0	10.0				
50	20.0	11.7	20.0	10.0				
100	20.0	11.7	20.0	10.0				
150	13.3	11.7	11.7	10.0				
200	13.3	11.7	10.0	10.0				
250	10.0	8.3	8.3	8.3				
300		8.3		8.3				
400		3.3		3.3				

[When installed vertically]

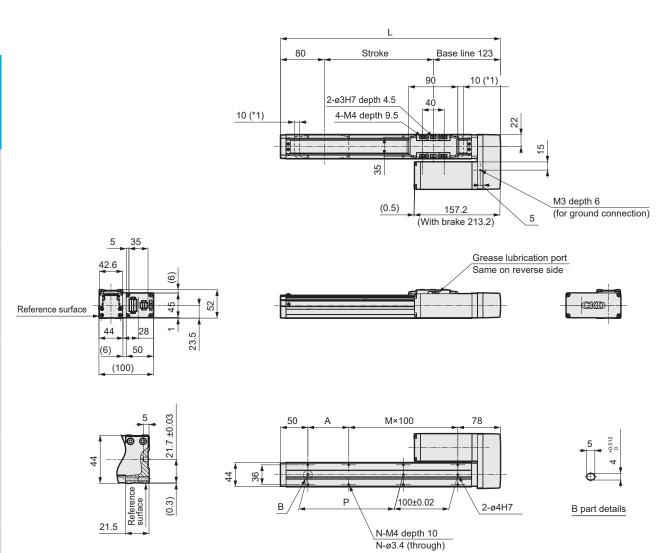
(kg)

	Acceleration/deceleration (G)							
	0.	.3						
Speed	Screw le	ad (mm)						
(mm/s)	6	12						
7	9.2							
15	9.2	3.3						
50	9.2	3.3						
100	6.7	3.3						
150	3.3	3.3						
200	2.5	3.3						
225	0.8	1.7						
300		1.7						
350		0.8						

Pressing force



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

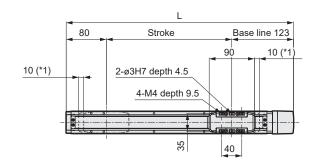


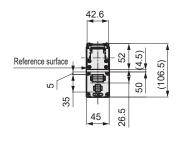
Note 1: Operating range to the mechanical stopper

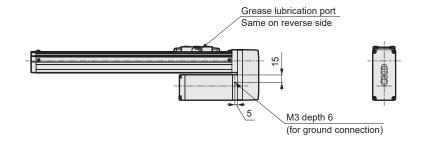
Stro	oke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800
Stro	oke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
	L	253	303	353	403	453	503	553	603	653	703	753	803	853	903	953	1003
	Α	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
	М	1	1	2	2	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
	Р	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
Weight	Without brake	1.7	1.8	1.9	2.0	2.2	2.3	2.4	2.5	2.6	2.8	2.9	3.0	3.1	3.2	3.4	3.5
(kg)	With brake	2.1	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0	3.2	3.3	3.4	3.5	3.6	3.8	3.9

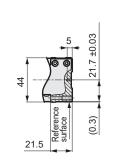
Dimensions Bottom motor mounting

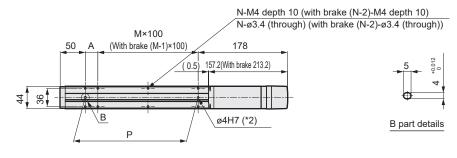
● EJSG-04D





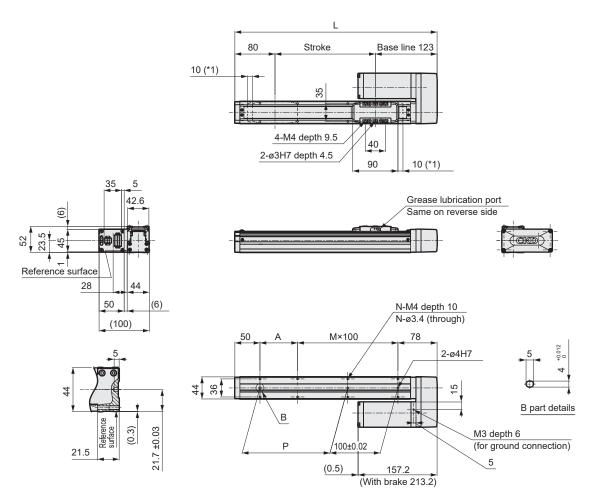






- *1: Operating range to the mechanical stopper
- *2: When the type with brake is selected, the ø4H7 cannot be used because it is hidden in the motor part.

Stro	oke code	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800
Stro	oke (mm)	250	300	350	400	450	500	550	600	650	700	750	800
	L	453	503	553	603	653	703	753	803	853	903	953	1003
	А	25	75	25	75	25	75	25	75	25	75	25	75
	M	2	2	3	3	4	4	6	6	7	7	8	8
	N	8	8	10	10	12	12	16	16	18	18	20	20
	Р	225	275	325	375	425	475	525	575	625	675	725	775
Weight	Without brake	2.2	2.3	2.4	2.5	2.6	2.8	2.9	3.0	3.1	3.2	3.4	3.5
(kg)	With brake	2.6	2.7	2.8	2.9	3.0	3.2	3.3	3.4	3.5	3.6	3.8	3.9



*1: Operating range to the mechanical stopper

01		0050	0400	0.450	0000	0050	0000	0050	0.400	0.450	0500	0550	0000	0050	0700	0750	0000
Stro	oke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800
Stro	oke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
	L	253	303	353	403	453	503	553	603	653	703	753	803	853	903	953	1003
	Α	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
	М	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
	Р	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
Weight	Without brake	1.7	1.8	1.9	2.0	2.2	2.3	2.4	2.5	2.6	2.8	2.9	3.0	3.1	3.2	3.4	3.5
(kg)	With brake	2.1	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0	3.2	3.3	3.4	3.5	3.6	3.8	3.9

Dimensions

Notes

EJSG

JSG-G

JSG-C

EJSG-P4

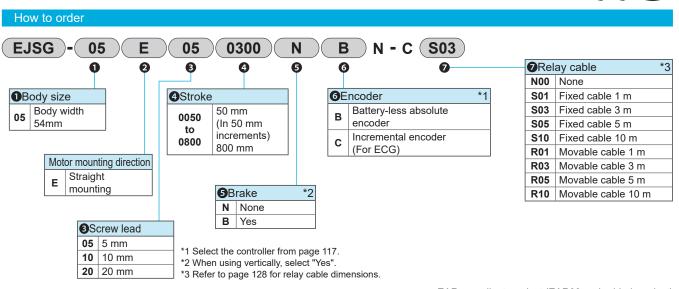




Straight motor mounting

☐42 Stepper motor

C E RoHS



EAR-compliant product (EAR99-embedded product)

Specifications

Supported c	ontrolle	rs		ECG-A					
Motor				☐42 Stepper motor					
Encoder type	e		Ba	ttery-less absolute enco	der				
Drive metho	d		Ball screw ø12						
Stroke		mm	50 to 800						
Screw lead		mm	5	10	20				
Max. worklo	Max. workload kg Horizonta		40.0	27.5	18.3				
*1	*1 Vertical		14.0	7.0	2.5				
Operation speed range *2 mm/s			6 to 290	12 to 500	25 to 850				
Max. acceleration/ Horizontal			0.7	0.7	0.7				
deceleration	G	Vertical	0.3	0.3	0.3				
Maximum pı	ushing f	orce N	220	110	55				
Pressing opera	ation spe	ed rangemm/s	5 to 20	5 to 20	5 to 20				
Repeatability	у	mm		±0.01					
Lost motion		mm	0.1 or less						
Static allowa	able mo	ment N·m	MP:103 MY:103 MR:144						
Motor power	supply	voltage		24 VDC ±10%					
	Model, pov	ver supply voltage	Non-exc	itation operation, 24 VI	OC ±10%				
Brake	Power c	onsumptionW		6.1					
	Holding	force N	168	84	42				
Insulation res	sistance			10 MΩ, 500 VDC					
Withstand vo	ltage			500 VAC for 1 minute					
Operating ar humidity	mbient t	emperature,	10 to 40 °C (no freezing) 35 to 80% RH (no condensation)						
Storage amb humidity	oient ter	mperature,	-10 to 50°C (no freezing) 35 to 80% RH (no condensation)						
Atmosphere			No corro	sive gas, explosive ga	s, or dust				

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 17 for details.

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

Stroke and max. speed

						(mm/s)						
Screw	Stroke											
lead	50 to 550	600	650	700	750	800						
5	290	260	225	200	175	150						
10	500	500	455	400	355	315						
20	850	850	850	800	710	630						

Speed and load capacity

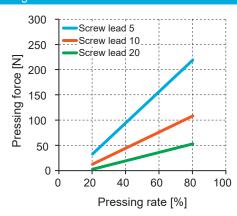
[When installed horizontally]

		(kg)										
		Accel	eration/d	eceleratio	n (G)							
		0.3			0.7							
Speed	Screw lead (mm)											
(mm/s)	5	10	20	5	10	20						
6	40.0			40.0								
12	40.0	27.5		40.0	27.5							
25	40.0	27.5	18.3	40.0	27.5	8.3						
50	40.0	27.5	18.3	40.0	27.5	8.3						
100	40.0	27.5	18.3	40.0	27.5	8.3						
150	26.7	27.5	10.0	26.7	27.5	6.7						
200	26.7	27.5	10.0	26.7	27.5	6.7						
250	26.7	15.8	10.0	26.7	12.5	6.7						
290	26.7	15.8	10.0	15.8	12.5	6.7						
300		15.8	10.0		12.5	6.7						
400		10.0	8.3		9.2	5.0						
500		5.8	8.3		2.5	5.0						
700			4.2			2.5						
800			2.5			1.7						
850			0.8			0.4						

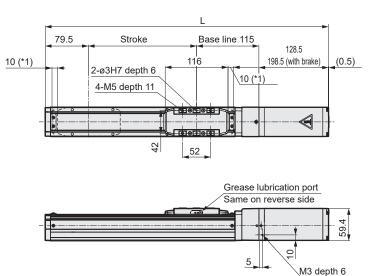
[When installed vertically]

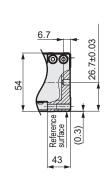
	(kg)										
	Accelerat	ion/decele	ration (G)								
		0.3									
Speed	Scre	Screw lead (mm)									
(mm/s)	5	10	20								
6	14.0										
12	14.0	7.0									
25	14.0	7.0	2.5								
50	14.0	7.0	2.5								
100	9.2	7.0	2.5								
150	7.5	7.0	2.5								
200	4.2	7.0	2.5								
210	3.3	2.5	2.5								
225	3.3	2.5	2.5								
250	2.1	2.5	2.5								
300		2.5	2.5								
325		2.1	2.5								
350		2.1	2.5								
400		1.3	2.5								
425		0.8	0.4								
500			0.4								

Pressing force



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

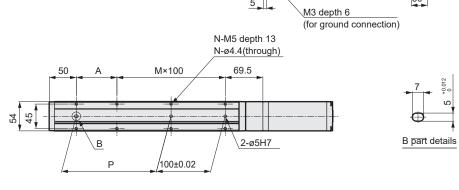




52.5

Reference surface

9



*1: Operating range to the mechanical stopper

Stro	oke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800
Stro	oke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
	Without brake	373	423	473	523	573	623	673	723	773	823	873	923	973	1023	1073	1123
L	With brake	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193
	Α	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
	М	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
	Р	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
Weight	Without brake	2.4	2.6	2.7	2.8	3.0	3.1	3.3	3.4	3.5	3.7	3.8	4.0	4.1	4.2	4.4	4.5
(kg)	With brake	3.2	3.3	3.5	3.6	3.7	3.9	4.0	4.2	4.3	4.4	4.6	4.7	4.9	5.0	5.1	5.3

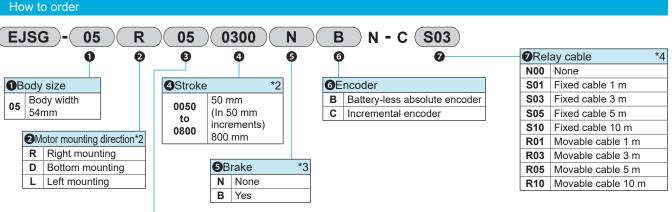




Motor side mounting (left, right, bottom)

☐42 Stepper motor





- 3Screw lead *1 Select the controller from page 117.
 - *2 When the motor mounting direction "D" is selected, the stroke is selected from "0250 (250 mm)" to "0800 (800 mm)".
 - *3 When using vertically, select "Yes".
 - *4 Refer to page 128 for relay cable dimensions.

EAR-compliant product (EAR99-embedded product)

Specifications

05 5 mm

20 20 mm

10

10 mm

Supported	d controllers		ECG-A					
Motor			☐42 Stepper motor					
Encoder t	уре	Batt	ery-less absolute enco Incremental encoder	oder				
Drive met	hod		Ball screw ø12					
Stroke	mm	50 to 800						
Screw lea	d mm	5	10	20				
Max. work		40.0	27.5	18.3				
kg	*1 Vertical	10.0	3.3	0.8				
Operation s	peed range *2 mm/s	6 to 250	12 to 400	25 to 700				
Maximum acce	eleration/ Horizontal	0.7	0.7	0.7				
deceleration	G Vertical	0.3	0.3	0.3				
Maximum	pushing force N	220	110	55				
Pressing oper	ration speed range mm/s	5 to 20	5 to 20	5 to 20				
Repeatab	ility mm		±0.01					
Lost motion	on mm		0.1 or less					
Static allow	vable momentN·m	MP:103 MY:103 MR:144						
Motor pow	ver supply voltage		24 VDC ±10%					
	Model, power supply voltage	Non-excit	ation operation, 24 V	DC ±10%				
Brake	Power consumptionW		6.1					
	Holding force N	168	84	42				
Insulation	resistance		10 MΩ, 500 VDC					
Withstand	l voltage	,	500 VAC for 1 minute	;				
Operating			to 40 °C (no freezin	07				
	ire, humidity	35 to 80% RH (no condensation)						
Storage a		-10 to 50°C (no freezing) 35 to 80% RH (no condensation)						
	re, humidity							
Atmosphe	il e	No corrosive gas, explosive gas, or dust						

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 21 for details.

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

Stroke and max. speed

					(mm/s)						
Thread	Thread Stroke										
Lead	50 to 600	650	700	750	800						
5	250	225	200	175	150						
10	400	400	400	355	315						
20	700	700	700	700	630						

Speed and load capacity

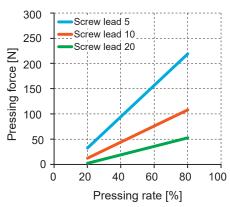
[When installed horizontally]

		(kg)										
		Accel	eration/d	eceleratio	n (G)							
		0.3		0.7								
Speed			Screw le	ad (mm)								
(mm/s)	5	10	20	5	10	20						
6	40.0			40.0								
12	40.0	27.5		40.0	27.5							
25	40.0	27.5	18.3	40.0	27.5	7.5						
50	40.0	27.5	18.3	40.0	27.5	7.5						
100	40.0	27.5	18.3	40.0	27.5	7.5						
150	26.7	23.3	10.0	26.7	20.0	5.0						
200	26.7	23.3	10.0	26.7	20.0	5.0						
250	8.3	11.7	10.0	8.3	11.7	5.0						
300		11.7	10.0		11.7	5.0						
400		3.3	6.7		3.3	4.2						
500			6.7			4.2						
700			3.3			1.7						

[When installed vertically]

			(kg)						
	Accelerat	ion/decele	ration (G)						
		0.3							
Speed	Screw lead (mm)								
(mm/s)	5 10 20								
6	10.0								
12	10.0	3.3							
25	10.0	3.3	0.8						
50	10.0	3.3	0.8						
100	8.3	3.3	0.8						
150	6.7	2.1	0.8						
200	2.5	2.1	0.8						
210	0.8	1.3	0.8						
300		1.3	0.8						
325		0.4	0.8						
400			0.8						
500			0.4						

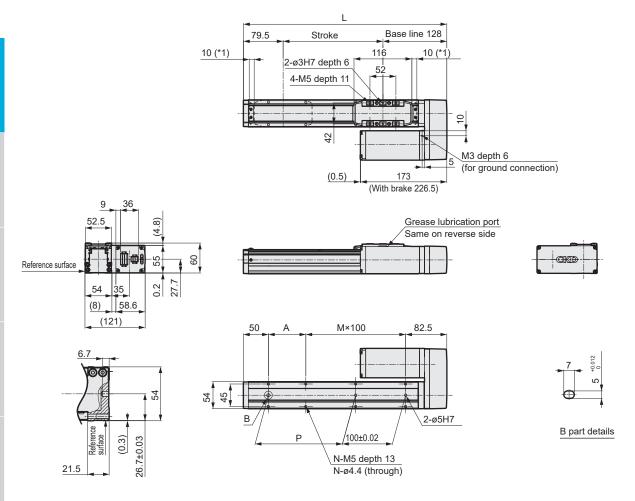
Pressing force



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

Dimensions Right motor mounting

● EJSG-05R

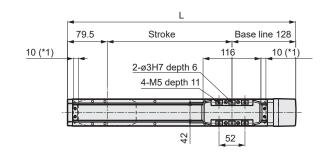


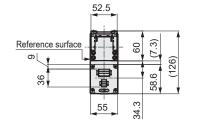
*1: Operating range to the mechanical stopper

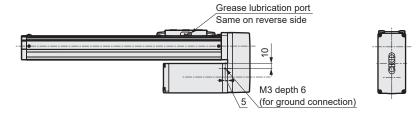
Stro	oke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800
Stro	ke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
	L	257.5	307.5	357.5	407.5	457.5	507.5	557.5	607.5	657.5	707.5	757.5	807.5	857.5	907.5	957.5	1007.5
	Α	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
	М	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
	Р	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
Weight	Without brake	2.6	2.7	2.8	3.0	3.1	3.3	3.4	3.5	3.7	3.8	3.9	4.1	4.2	4.4	4.5	4.6
(kg)	With brake	3.3	3.5	3.6	3.7	3.9	4.0	4.2	4.3	4.4	4.6	4.7	4.9	5.0	5.1	5.3	5.4

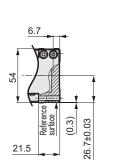
Dimensions Bottom motor mounting

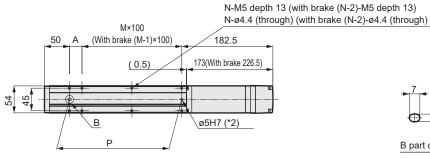
● EJSG-05D











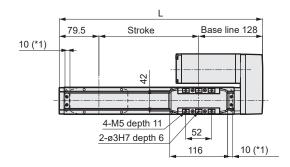


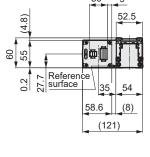
- *1: Operating range to the mechanical stopper
- *2: When the type with brake is selected, the ø5H7 cannot be used because it is hidden in the motor part.

Stroke code	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800
Stroke (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
Α	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
Р	225	275	325	375	425	475	525	575	625	675	725	775
Weight Without b	rake 3.1	3.3	3.4	3.5	3.7	3.8	3.9	4.1	4.2	4.4	4.5	4.6
(kg) With bra	ake 3.9	4.0	4.2	4.3	4.4	4.6	4.7	4.9	5.0	5.1	5.3	5.4

Dimensions Left motor mounting

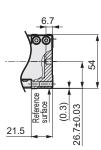
● EJSG-05L

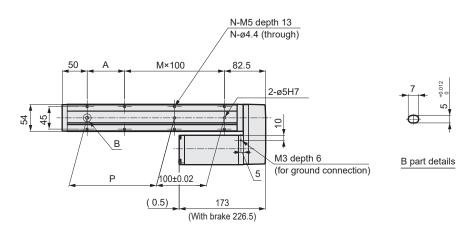












*1: Operating range to the mechanical stopper

Stro	oke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800
Stro	oke (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
	Α	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
	Р	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
Weight	Without brake	2.6	2.7	2.8	3.0	3.1	3.3	3.4	3.5	3.7	3.8	3.9	4.1	4.2	4.4	4.5	4.6
(kg)	With brake	3.3	3.5	3.6	3.7	3.9	4.0	4.2	4.3	4.4	4.6	4.7	4.9	5.0	5.1	5.3	5.4

Dimensions

Notes

EJSG

EJSG-G

EJSG-C

EJSG-P4

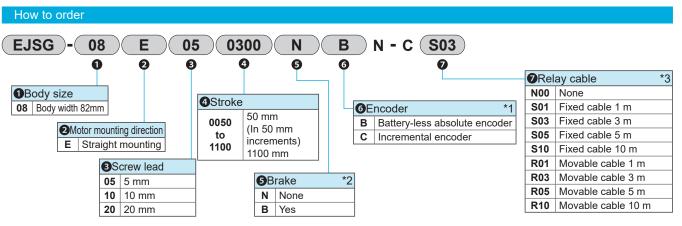




Straight motor mounting

☐56 Stepping motor





- *1 Select the controller from page 117.
- *2 When using vertically, select "Yes".
- *3 Refer to page 128 for relay cable dimensions.

EAR-compliant product (EAR99-embedded product)

Specifications

Supported controllers		ECG-A					
Motor		☐56 Stepping motor					
Encoder type	Bat	ttery-less absolute enco Incremental encoder	der				
Drive method	Ball screw ø15						
Stroke mm	50 to 1100						
Screw lead mm	5	10 2					
Max. workload kg Horizontal	80.0	70.0	30.0				
*1 Vertical	43.3	28.3	3.3				
Operation speed range *2mm/s	6 to 150	12 to 250	25 to 500				
Max. acceleration/ Horizontal	0.7	0.7	0.7				
deceleration G Vertical	0.3	0.3	0.3				
Maximum pushing force N	965	482	241				
Pressing operation speed rangemm/s	5 to 20	5 to 20	5 to 20				
Repeatability mm		±0.01					
Lost motion mm	0.1 or less						
Static allowable moment $N \cdot m$	MP:203 MY:203 MR:336						
Motor power supply voltage		24 VDC ±10%					
Model, power supply voltage	Non-exci	itation operation, 24 VI	OC ±10%				
Brake Power consumptionW		7.2					
Holding force N	768	384	192				
Insulation resistance		10 MΩ, 500 VDC					
Withstand voltage		500 VAC for 1 minute					
Operating ambient temperature, humidity	10 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 corro	sive gas, explosive ga	s, or dust				

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 27 for details.

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

Stroke and max. speed

(mm/s)

	Screw		Stroke												
	lead	50 to 900	950	1000	1050	1100									
	5	150	145	130	120	110									
	10	250	250	250	240	220									
Γ	20	500	500	500	480	440									

Speed and load capacity

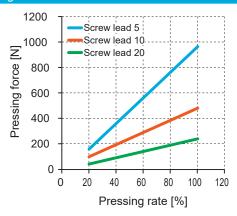
[When installed horizontally]

		(kg)											
		Accel	eration/d	eceleratio	n (G)								
		0.3			0.7								
Speed			Screw le	ad (mm)									
(mm/s)	5	10	20	5	10	20							
6	80.0			80.0									
12	80.0	70.0		80.0	70.0								
25	80.0	70.0	30.0	80.0	70.0	26.7							
50	80.0	70.0	30.0	80.0	70.0	26.7							
75	80.0	70.0	30.0	80.0	70.0	26.7							
100	40.0	70.0	30.0	40.0	70.0	26.7							
125	40.0	70.0	30.0	40.0	70.0	18.3							
150	40.0	70.0	30.0	35.0	70.0	18.3							
200		28.3	30.0		17.5	18.3							
250		28.3	26.7		17.5	18.3							
300			26.7			18.3							
400			20.0			11.7							
500			3.3										

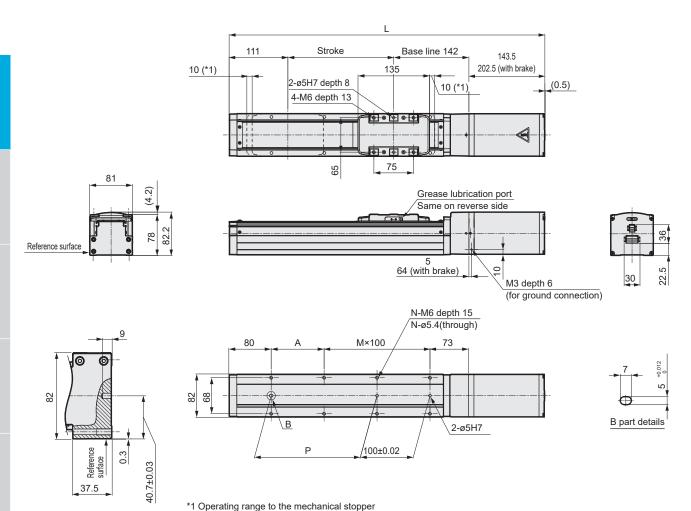
[When installed vertically]

	(kg)								
	Accelerat	ion/decele	ration (G)						
		0.3							
Speed	Scre	ew lead (r	mm)						
(mm/s)	5	5 10 20							
6	43.3								
12	43.3	28.3							
25	43.3 28.3 3.3								
50	43.3	28.3	3.3						
75	15.0	12.5	3.3						
100	15.0	12.5	3.3						
125	2.9	10.0	3.3						
150	2.9	10.0	3.3						
200		1.7	3.3						
250		1.7	3.3						
300			3.3						
350			0.8						

Pressing force



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



Stro	oke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800
Stro	oke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
	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
L	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
	Α	150	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
	M	0	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
	N	4	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
	Р	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Weight	Without brake	5.7	6.0	6.4	6.7	7.0	7.4	7.7	8.0	8.4	8.7	9.0	9.4	9.7	10.0	10.4	10.7
(kg)	With brake	6.7	7.1	7.4	7.7	8.1	8.4	8.7	9.1	9.4	9.7	10.1	10.4	10.7	11.1	11.4	11.8

Stro	ke code	0850	0900	0950	1000	1050	1100
Stro	ke (mm)	850	900	950	1000	1050	1100
Without brake		1246.5	1296.5	1346.5	1396.5	1446.5	1496.5
_	With brake		1355.5	1405.5	1455.5	1505.5	1555.5
	A	50	100	50	100	50	100
	М	9	9	10	10	11	11
	N	22	22	24	24	26	26
Р		850	900	950	1000	1050	1100
Weight	Without brake	11.0	11.4	11.7	12.1	12.4	12.7
(kg) With brake		12.1	12.4	12.8	13.1	13.4	13.8

EJSG-08E

Dimensions

Notes

EJSG

JSG-G

EJSG-C

EJSG-P4

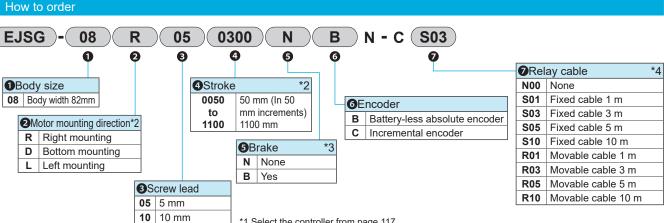




Motor side mounting (left, right, bottom)

☐56 Stepping motor





*1 Select the controller from page 117.

EAR-compliant product (EAR99-embedded product)

Specifications

Supported of	controlle	rs		ECG-A					
Motor				□56 Stepping motor					
Encoder typ	ре		Battery-less absolute encoder Incremental encoder						
Drive metho	od		Ball screw ø15						
Stroke		mm	50 to 1100						
Screw lead		mm	5	5 10					
Max. worklo	ad kg	Horizontal	80.0	70.0	30.0				
*1	١	Vertical	33.3	18.3	3.3				
Operation sp	oeed ran	ge *2 mm/s	6 to 125	12 to 250	25 to 400				
Max. accele	eration/	Horizontal	0.7	0.7	0.7				
deceleration	n G	Vertical	0.3	0.3	0.3				
Maximum p	ushing f	orce N	965	482	241				
Pressing oper	ation spee	ed rangemm/s	5 to 20 5 to 20 5 to 20						
Repeatabili	ty	mm		±0.01					
Lost motion	l	mm	0.1 or less						
Static allow	able mo	ment N·m	MP:203 MY:203 MR:336						
Motor powe	r supply	voltage		24 VDC ±10%					
	Model, pow	ver supply voltage	Non-exci	tation operation, 24 VI	OC ±10%				
Brake	Power co	onsumptionW		7.2					
	Holding	force N	768	384	192				
Insulation re	esistanc	е		10 M Ω , 500 VDC					
Withstand v	oltage			500 VAC for 1 minute					
Operating ambi	ent temper	ature, humidity	10 to 40 °C (no freezing) 35 to 80% RH (no condensation)						
Storage ambie	nt tempera	ature, humidity	-10 to 50°C (no freezing) 35 to 80% RH (no condensation)						
Atmosphere	9		No corro	sive gas, explosive ga	s, or dust				
Operating ambi	ent temper	ature, humidity	35 to 80% RH (no condensation) -10 to 50°C (no freezing)						

20 20 mm

^{*2} When the motor mounting direction "D" is selected, the stroke is selected from "0250 (250 mm)" to "1100 (1100 mm)".

^{*3} When using vertically, select "Yes"

^{*4} Refer to page 128 for relay cable dimensions.

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 31 for details.

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

Stroke and max. speed

(mm/s)

Screw	Stroke									
lead	50 to 1000	1050	1100							
5	125	120	110							
10	250	240	220							
20	400	400	400							

Speed and load capacity

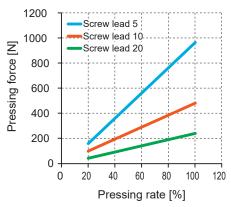
[When installed horizontally]

		(kg)										
		Accel	eration/d	eceleratio	n (G)							
		0.3			0.7							
Speed			Screw le	ad (mm)								
(mm/s)	5	10	20	5	10	20						
6	80.0			80.0								
12	80.0	70.0		80.0	70.0							
25	80.0	70.0	30.0	80.0	70.0	26.7						
50	80.0	70.0	30.0	80.0	70.0	26.7						
75	68.3	70.0	30.0	68.3	70.0	26.7						
100	40.0	70.0	30.0	40.0	70.0	26.7						
125	40.0	70.0	30.0	40.0	30.0	18.3						
150		70.0	30.0		30.0	18.3						
200		28.3	30.0		17.5	18.3						
250		21.7	6.7		17.5	6.7						
300			6.7			6.7						
400			3.3			3.3						

[When installed vertically]

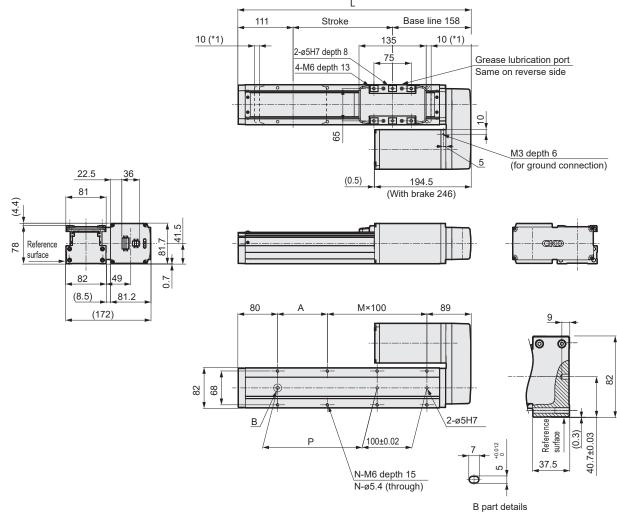
			(kg)					
	Acceleration/deceleration (G)							
	0.3							
Speed	Screw lead (mm)							
(mm/s)	5	10	20					
6	33.3							
12	33.3	18.3						
25	33.3	18.3	3.3					
50	25.0	18.3	3.3					
75	15.0	12.5	3.3					
100	12.5	12.5	3.3					
125	2.9	8.3	3.3					
150		8.3	3.3					
200		1.7	3.3					
250			3.3					
300			3.3					
350			0.8					

Pressing force



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

● EJSG-08R

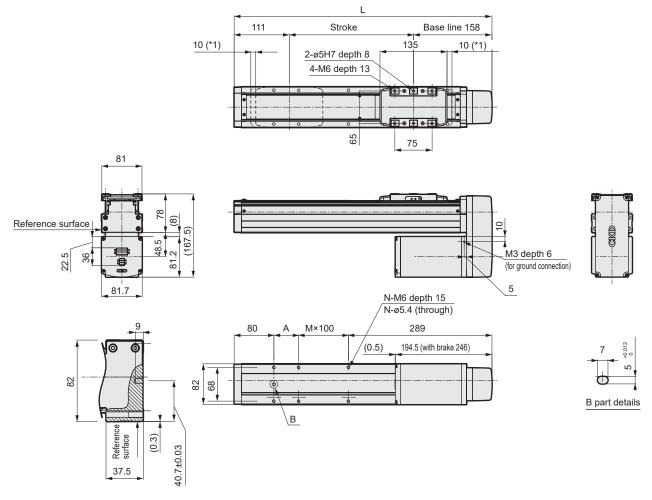


Stro	ke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800
Stro	ke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
	L	319	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069
	Α	150	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
	М	0	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
	N	4	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
	Р	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Weight	Without brake	5.9	6.2	6.6	6.9	7.2	7.6	7.9	8.2	8.6	8.9	9.2	9.6	9.9	10.2	10.6	10.9
(kg)	With brake	6.9	7.3	7.6	7.9	8.3	8.6	8.9	9.3	9.6	9.9	10.3	10.6	10.9	11.3	11.6	12.0

Stro	0850	0900	0950	1000	1050	1100	
Stro	850	900	950	1000	1050	1100	
	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
Р		850	900	950	1000	1050	1100
Weight	Without brake	11.3	11.6	11.9	12.3	12.6	12.9
(kg)	With brake	12.3	12.6	13.0	13.3	13.6	14.0

Dimensions Bottom motor mounting

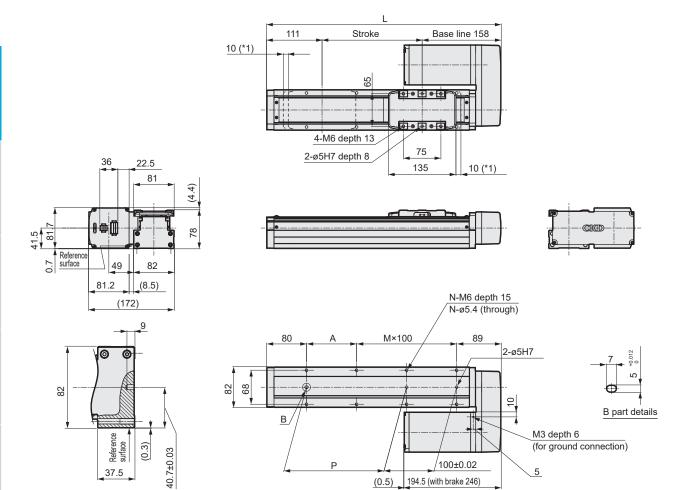
● EJSG-08D



*1: Operating range to the mechanical stopper

Stro	ke code	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800	0850	0900	0950	1000
Stro	ke (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
	А	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	Without brake	7.2	7.6	7.9	8.2	8.6	8.9	9.2	9.6	9.9	10.2	10.6	10.9	11.3	11.6	11.9	12.3
(kg)	With brake	8.3	8.6	8.9	9.3	9.6	9.9	10.3	10.6	10.9	11.3	11.6	12.0	12.3	12.6	13.0	13.3

Stro	ke code	1050	1100
Stro	ke (mm)	1050	1100
	L	1319	1369
	Α	50	100
	M	9	9
	N	22	22
Weight	Without brake	12.6	12.9
(kg)	With brake	13.6	14.0



*1: Operating range to the mechanical stopper

Stro	oke code	0050	0100	0150	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800
Stro	ke (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
	Α	150	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
	M	0	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
	N	4	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
	Р	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Weight	Without brake	5.9	6.2	6.6	6.9	7.2	7.6	7.9	8.2	8.6	8.9	9.2	9.6	9.9	10.2	10.6	10.9
(kg)	With brake	6.9	7.3	7.6	7.9	8.3	8.6	8.9	9.3	9.6	9.9	10.3	10.6	10.9	11.3	11.6	12.0

Stro	oke code	0850	0900	0950	1000	1050	1100
Stro	ke (mm)	850	900	950	1000	1050	1100
	L	1119	1169	1219	1269	1319	1369
	Α	50	100	50	100	50	100
	M	9	9	10	10	11	11
	N	22	22	24	24	26	26
	Р	850	900	950	1000	1050	1100
Weight	Without brake	11.3	11.6	11.9	12.3	12.6	12.9
(kg)	With brake	12.3	12.6	13.0	13.3	13.6	14.0

Dimensions

Notes

EJSG

EJSG-G

EJSG-C

EJSG-P4

EJSG

EJSG-G

厄

EJSG-P

EJSG-G

Electric actuator Motor specification

Slider dust-proof specifications



CONTENTS

Product introduction	Intro
Series variation	38
Specifications/How to order/Dimensions	
•EJSG-04*-G	40
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■ Model selection	108
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▲Safety precautions	132
Model Selection Check Sheet	140

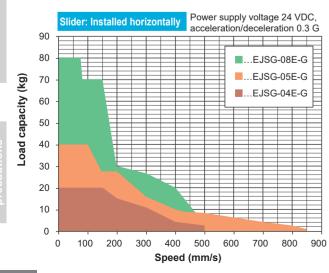
Series variation

50	1200	page	

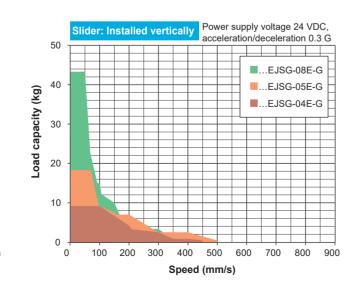
oller			Motor	Motor	Body	Screw lead	Max. load (kg		Max. Pressing	Stroke (mm) and max. speed (mm/s)		Listed
Controller	Actuator Mo	idel No.	Size	Direction	(mm)	(mm)	Horizontal	Vertical	force (N)	50 mm 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000 10	50 1100 1150 1200	page
		EJSG-04E06-G		ight		6	20.0	9.2	155	320 mm/s 290 250 220 190 170		40
		EJSG-04E12-G	ا م	Straight	44	12	15.0	3.3	77	500 440 390 340		40
		EJSG-04R/D/L06-G	- □ 35	tight/	44	6	20.0	9.2	155	250 220 190 170		40
CKD		EJSG-04R/D/L12-G		Left/Right/ Bottom		12	11.7	3.3	77	400 390 340		42
CM6 2		EJSG-05E05-G		±		5	40.0	14.0	220	290 260 225 200 175 150		
∞ ∞		EJSG-05E10-G		Straight		10	27.5	7.0	110	500 455 400 355 315		44
		EJSG-05E20-G			54	20	18.3	2.5	55	850 800 710 630		
		EJSG-05R/D/L05-G	- □ 42		54	5	40.0	10.0	220	250 225 200 175 150		
		EJSG-05R/D/L10-G		Left/Right/ Bottom		10	27.5	3.3	110	400 355 315		46
CKD with and a contract of the		EJSG-05R/D/L20-G		Let		20	18.3	0.8	55	700 630		
Su		EJSG-08E05-G				5	80.0	43.3	965	150 145 130 12	110	
Chia		EJSG-08E10-G		Straight		10	70.0	28.3	482	250	220	48
III J		EJSG-08E20-G			00	20	30.0	3.3	241	500	0 440	
		EJSG-08R/D/L05-G	- □ 56		82	5	80.0	33.3	965	125	0 110	
ECG Series		EJSG-08R/D/L10-G		Left/Right/ Bottom		10	70.0	18.3	482	250	220	50
		E ISG-08R/D/I 20-G		Let		20	30.0	3 3	2/11	400		1

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

400



EJSG-08R/D/L20-G



20

30.0

241

3.3

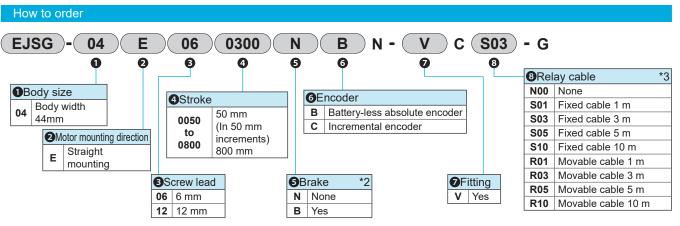




Straight motor mounting

☐35 Stepping motor





- *1 Select the controller from page 117.
- *2 When using vertically, select "Yes".
- *3 Refer to page 128 for relay cable dimensions.
- *4 When the product is shipped, the actuator body is attached with parts for connector protection.

Supported of	ontroller	S	ECO	G-A
Motor			□35 Stepp	ping motor
Encoder typ	е		Battery-less ab Incrementa	solute encoder al encoder
Drive metho	d		Ball scr	ew ø10
Stroke		mm	50 to	800
Screw lead		mm	6	12
Max. worklo	ad kg	Horizontal	20.0	15.0
*1		Vertical	9.2	3.3
Operation s	peed ran	ge *2 mm/s	7 to 320	15 to 500
Max. accele	ration/	Horizontal	0.7	0.7
deceleration	G	Vertical	0.3	0.3
Maximum p	ushing fo	rce N	155	77
Pressing oper	ation spe	ed rangemm/s	5 to 20	5 to 20
Repeatabilit	у	mm	±0	.01
Lost motion		mm	0.1 or	rless
Static allowa	able mon	nent N·m	MP:62 MY	:62 MR:92
Motor powe	r supply	voltage	24 VDC	C ±10%
	Model, pov	ver supply voltage	Non-excitation opera	ation, 24 VDC ±10%
Brake	Power co	onsumptionW	6.	1
	Holding	force N	140	70
Insulation re	sistance	:	10 ΜΩ, 5	500 VDC
Withstand v	oltage		500 VAC fo	or 1 minute
Operating ambi	ient tempe	rature, humidity	10 to 40 °C (35 to 80% RH (n	
Storage ambie	nt temper	ature, humidity	-10 to 50°C (35 to 80% RH (n	
Atmosphere			No corrosive gas	or explosive gas
Degree of p	rotection		IP:	50
				44.6 1.1.9

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 41 for details.

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

(mm/s)

Thread		S	troke			
Lead	50 to 550	600	650	700	750	800
6	320	290	250	220	190	170
12	500	500	500	440	390	340

Speed and load capacity

[When installed horizontally]

(kg)

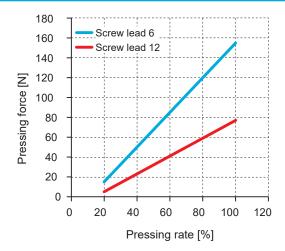
	Accel	eration/d	eceleration	on (G)
	0	.3	0.	.7
Speed		Screw le	ad (mm)	
(mm/s)	6	12	6	12
7	20.0		20.0	
15	20.0	15.0	20.0	15.0
50	20.0	15.0	20.0	15.0
100	20.0	15.0	20.0	15.0
150	20.0	15.0	12.5	10.8
200	15.0	15.0	12.5	10.8
250	11.7	10.8	11.7	8.3
300	7.5	10.8	7.5	8.3
320	7.5	4.2	7.5	4.2
400		4.2		4.2
500		2.5		2.5

[When installed vertically]

(kg)

	Acceleration/d	eceleration (G)
	0.	.3
Speed	Screw le	ad (mm)
(mm/s)	6	12
7	9.2	
15	9.2	3.3
50	9.2	3.3
100	9.2	3.3
150	6.7	3.3
200	4.2	3.3
225	1.7	2.5
250	1.7	2.5
275	0.4	2.5
300		2.5
350		0.8
400		0.8
450		0.4

Pressing force



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

Dimensions

Refer to page 8 for actuator dimensions. Refer to page 52 for fitting dimensions.

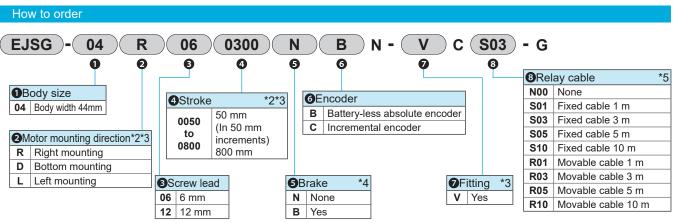




Motor side mounting (left, right, bottom)

☐35 Stepping motor





- *1 Select the controller from page 117.
- *2 When the motor mounting direction "D" is selected, the stroke is selected from "0250 (250 mm)" to "800 (800 mm)".
- *3 For the motor mounting direction "L" and with fitting "V", stroke 0050 (50 mm) cannot be selected.
- *4 When using vertically, select "Yes".
- *5 Refer to page 128 for relay cable dimensions.
- *6 When the product is shipped, the actuator body is attached with the protective parts for the connector.

Supported controllers ECG-A Motor □35 Stepping motor Encoder type Battery-less absolute encoder Incremental encoder Drive method Ball screw ø10 Stroke mm 50 to 800 Screw lead mm 6 12 Max. workload kg *1 Vertical Vertical 9.2 3.3 Operation speed range *2 mm/s 7 to 250 15 to 400 Max. acceleration/ deceleration G Horizontal Vertical 0.7 0.7 deceleration G Vertical 0.3 0.3 Maximum pushing force N 155 77 Pressing operation speed rangemm/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% Model, power supply voltage Non-excitation operation, 24 VDC ±10%
Battery-less absolute encoder
Drive method Ball screw ø10 Stroke mm 50 to 800 Screw lead mm 6 12 Max. workload kg *10 Horizontal vertical 20.0 11.7 *1 Vertical vertical 9.2 3.3 Operation speed range *2 mm/s 7 to 250 15 to 400 Max. acceleration/ deceleration Horizontal deceleration G 0.7 0.7 Maximum pushing force N 155 77 Pressing operation speed rangemm/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%
Stroke mm 50 to 800 Screw lead mm 6 12 Max. workload kg *10 Vertical Horizontal 20.0 11.7 *1 Vertical 9.2 3.3 Operation speed range *2 mm/s 7 to 250 15 to 400 Max. acceleration/ deceleration / deceleration G Horizontal Vertical 0.7 0.7 Maximum pushing force N 155 77 Pressing operation speed rangemm/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%
Screw lead mm 6 12 Max. workload kg *1 Horizontal 20.0 11.7 *1 Vertical 9.2 3.3 Operation speed range *2 mm/s 7 to 250 15 to 400 Max. acceleration/ deceleration G Horizontal Vertical 0.7 0.7 deceleration G Vertical 0.3 0.3 Maximum pushing force N 155 77 Pressing operation speed rangemm/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%
Max. workload kg Horizontal Vertical 20.0 11.7 *1 Vertical 9.2 3.3 Operation speed range *2 mm/s 7 to 250 15 to 400 Max. acceleration/ deceleration G Horizontal Vertical 0.7 0.7 Maximum pushing force N 155 77 Pressing operation speed rangemm/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%
*1 Vertical 9.2 3.3 Operation speed range *2 mm/s 7 to 250 15 to 400 Max. acceleration/ Horizontal 0.7 0.7 deceleration G Vertical 0.3 0.3 Maximum pushing force N 155 77 Pressing operation speed rangemm/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%
Operation speed range *2 mm/s 7 to 250 15 to 400 Max. acceleration/ deceleration G Horizontal Vertical 0.7 0.7 Maximum pushing force N 155 77 Pressing operation speed rangemm/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%
Max. acceleration/ deceleration G Horizontal Vertical 0.7 0.7 Maximum pushing force N 155 77 Pressing operation speed rangemm/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%
Maximum pushing force N 155 77 Pressing operation speed rangemm/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%
Maximum pushing force N 155 77 Pressing operation speed rangemm/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%
Pressing operation speed rangemm/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%
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%
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%
Static allowable moment N·m MP:62 MY:62 MR:92 Motor power supply voltage 24 VDC ±10%
Motor power supply voltage 24 VDC ±10%
The state of the s
Model power supply voltage Non-excitation operation 24 VDC +10%
Tron exercises operation, 24 VDO 11070
Brake Power consumptionW 6.1
Holding force N 140 70
Insulation resistance 10 MΩ, 500 VDC
Withstand voltage 500 VAC for 1 minute
Operating ambient temperature, humidity 10 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 or explosive gas
Degree of protection IP50

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 43 for details.

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

(mm/s)

Thread	Stroke					
Lead	50 to 650	700	750	800		
6	250	220	190	170		
12	400	400	390	340		

Speed and load capacity

[When installed horizontally]

(kg)

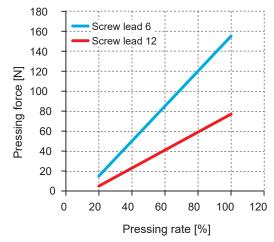
	Acceleration/deceleration (G)				
	0	.3	0.7		
Speed		Screw le	ad (mm)		
(mm/s)	6	12	6	12	
7	20.0		20.0		
15	20.0	11.7	20.0	10.0	
50	20.0	11.7	20.0	10.0	
100	20.0	11.7	20.0	10.0	
150	13.3	11.7	11.7	10.0	
200	13.3	11.7	10.0	10.0	
250	10.0	8.3	8.3	8.3	
300		8.3		8.3	
400		3.3		3.3	

[When installed vertically]

(kg)

	Acceleration/deceleration (G)			
	0.	.3		
Speed	Screw le	ad (mm)		
(mm/s)	6	12		
0	9.2			
15	9.2	3.3		
50	9.2	3.3		
100	6.7	3.3		
150	3.3	3.3		
200	2.5	3.3		
225	0.8	1.7		
300		1.7		
350		0.8		

Pressing force



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

Dimensions

Refer to pages 12 to 14 for actuator dimensions.

Refer to page 52 for fitting dimensions.

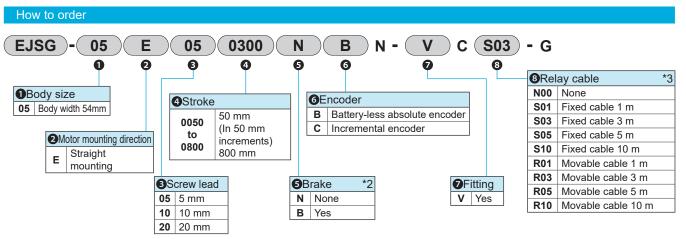




Straight motor mounting

☐42 Stepper motor





- *1 Select the controller from page 117.
- *2 When using vertically, select "Yes".
- *3 Refer to page 128 for relay cable dimensions.
- *4 When the product is shipped, the actuator body is attached with parts for connector protection.

Supported controllers	ECG-A				
Motor		□42 Stepper motor			
Encoder type	Battery-less absolute encoder Incremental encoder				
Drive method		Ball screw ø12			
Stroke mm		50 to 800			
Screw lead mm	5	10	20		
Max. workload kg Horizontal	40.0	27.5	18.3		
*1 Vertical	14.0	7.0	2.5		
Operation speed range *2 mm/s	6 to 290	12 to 500	25 to 850		
Max. acceleration/ Horizontal	0.7	0.7	0.7		
deceleration G Vertical	0.3	0.3	0.3		
Maximum pushing force N	220	110	55		
Pressing operation speed rangemm/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:103 MY:103 MR:144				
Motor power supply voltage	24 VDC ±10%				
Model, power supply voltage	Non-excitation operation, 24 VDC ±10%				
Brake Power consumptionW		6.1			
Holding force N	168	84	42		
Insulation resistance		10 MΩ, 500 VDC			
Withstand voltage		500 VAC for 1 minute			
Operating ambient temperature, humidity	10 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 co	rrosive gas or explosiv	ve gas		
Degree of protection		IP50			

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 45 for details.

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

(mm/s)

Thread	Stroke						
Lead	50 to 550	600	650	700	750	800	
5	290	260	225	200	175	150	
10	500	500	455	400	355	315	
20	850	850	850	800	710	630	

Speed and load capacity

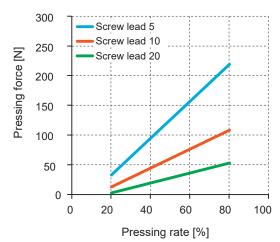
[When installed horizontally]

						(kg)
	Acceleration/deceleration (G)					
		0.3			0.7	
Speed			Screw le	ad (mm)		
(mm/s)	5	10	20	5	10	20
6	40.0			40.0		
12	40.0	27.5		40.0	27.5	
25	40.0	27.5	18.3	40.0	27.5	8.3
50	40.0	27.5	18.3	40.0	27.5	8.3
100	40.0	27.5	18.3	40.0	27.5	8.3
150	26.7	27.5	10.0	26.7	27.5	6.7
200	26.7	27.5	10.0	26.7	27.5	6.7
250	26.7	15.8	10.0	26.7	12.5	6.7
290	26.7	15.8	10.0	15.8	12.5	6.7
300		15.8	10.0		12.5	6.7
400		10.0	8.3		9.2	5.0
500		5.8	8.3		2.5	5.0
700			4.2			2.5
800			2.5			1.7
850			0.8			0.4

[When installed vertically]

			(kg)		
	Acceleration/deceleration (G)				
		0.3			
Speed	Scre	ew lead (r	mm)		
(mm/s)	5	10	20		
6	14.0				
12	14.0	7.0			
25	14.0	7.0	2.5		
50	14.0	7.0	2.5		
100	9.2	7.0	2.5		
150	7.5	7.0	2.5		
200	4.2	7.0	2.5		
210	3.3	2.5	2.5		
225	3.3	2.5	2.5		
250	2.1	2.5	2.5		
300		2.5	2.5		
325		2.1	2.5		
350		2.1	2.5		
400		1.3	2.5		
425		0.8	0.4		
500			0.4		

Pressing force



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

Refer to page 18 for actuator dimensions. Refer to page 52 for fitting dimensions.

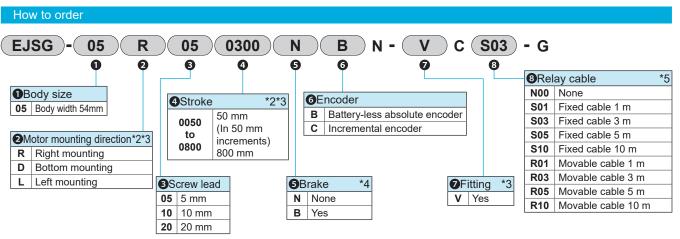




Motor side mounting (left, right, bottom)

☐42 Stepper motor





- *1 Select the controller from page 117.
- *2 When the motor mounting direction "D" is selected, the stroke is selected from "0250 (250 mm)" to "0800 (800 mm)".
- *3 For the motor mounting direction "L", 0050 (50 mm) stroke cannot be selected.
- *4 When using vertically, select "Yes"
- *5 Refer to page 128 for relay cable dimensions.
- *6 When the product is shipped, the actuator body is attached with parts for connector protection.

Supported controllers			ECG-A			
Motor			☐42 Stepper motor			
Encoder typ	е		Battery-less absolute encoder Incremental encoder			
Drive metho	d			Ball screw ø15		
Stroke		mm		50 to 800		
Screw lead		mm	5	10	20	
Max. worklo	ad kg	Horizontal	40.0	27.5	18.3	
*1		Vertical	10.0	3.3	0.8	
Operation sp	oeed ran	ige *2 mm/s	6 to 250	12 to 400	25 to 700	
Max. accele	ration/	Horizontal	0.7	0.7	0.7	
deceleration	G	Vertical	0.3	0.3	0.3	
Maximum pı	ushing fo	orce N	220	110	55	
Pressing oper	ation spe	ed rangemm/s	5 to 20	5 to 20	5 to 20	
Repeatabilit	у	mm	±0.01			
Lost motion		mm	0.1 or less			
Static allowa	able mor	nent N·m	MP:103 MY:103 MR:144			
Motor power	rsupply	voltage	24 VDC ±10%			
	Model, pov	ver supply voltage	Non-excitation operation, 24 VDC ±10%			
Brake	Power c	onsumptionW		6.1		
	Holding	force N	168	84	42	
Insulation re	sistance	;		10 M Ω , 500 VDC		
Withstand v	oltage			500 VAC for 1 minute		
Operating ambient temperature, humidity		10 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 co	rrosive gas or explosiv	ve gas	
Degree of p	rotection			IP50		

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 47 for details.

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

(mm/s)

Thread	Stroke					
Lead	50 to 600	650	700	750	800	
5	250	225	200	175	150	
10	400	400	400	355	315	
20	700	700	700	700	630	

Speed and load capacity

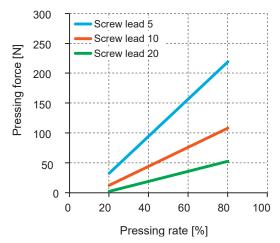
[When installed horizontally]

	(kg)							
		Acceleration/deceleration (G)						
		0.3			0.7			
Speed			Screw le	ad (mm)				
(mm/s)	5	10	20	5	10	20		
6	40.0			40.0				
12	40.0	27.5		40.0	27.5			
25	40.0	27.5	18.3	40.0	27.5	7.5		
50	40.0	27.5	18.3	40.0	27.5	7.5		
100	40.0	27.5	18.3	40.0	27.5	7.5		
150	26.7	23.3	10.0	26.7	20.0	5.0		
200	26.7	23.3	10.0	26.7	20.0	5.0		
250	8.3	11.7	10.0	8.3	11.7	5.0		
300		11.7	10.0		11.7	5.0		
400		3.3	6.7		3.3	4.2		
500			6.7			4.2		
700			3.3			1.7		

[When installed vertically]

			(kg)			
	Accelerat	Acceleration/deceleration (G)				
		0.3				
Speed	Scre	ew lead (r	mm)			
(mm/s)	5	10	20			
6	10.0					
12	10.0	3.3				
25	10.0	3.3	0.8			
50	10.0	3.3	0.8			
100	8.3	3.3	0.8			
150	6.7	2.1	0.8			
200	2.5	2.1	0.8			
210	0.8	1.3	0.8			
300		1.3	0.8			
325		0.4	0.8			
400			0.8			
500			0.4			

Pressing force



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

Dimensions

Refer to pages 22 to 24 for actuator dimensions.

Refer to page 52 for fitting dimensions.





Straight motor mounting ☐56 Stepping motor



How to order							
EJSG - 08 E	05 8	0300	N 6	B N - V	C S03	- G	ay cable *3
1 Body size 1 Body width 1 82mm 2 Motor mounting direction 2 Straight mounting	4Stroke 0050 to 1100	50 mm (In 50 mm increments) 1100 mm		Encoder B Battery-less absolute enco C Incremental encoder	oder	N00 S01 S03 S05 S10 R01	None Fixed cable 1 m Fixed cable 3 m Fixed cable 5 m Fixed cable 10 m Movable cable 1 m
	3 Screw lead 05 5 mm 10 10 mm			ake *2 None Yes	V Yes	R03 R05 R10	Movable cable 3 m Movable cable 5 m Movable cable 10 m
	20 20 mm						

- *1 Select the controller from page 117.
- *2 When using vertically, select "Yes".
- *3 Refer to page 128 for relay cable dimensions.
 *4 When the product is shipped, the actuator body is attached with the protective parts for the connector.

Supported controll	ers	ECG-A			
Motor		☐56 Stepping motor			
Encoder type		Battery-less absolute encoder Incremental encoder			
Drive method			Ball screw ø15		
Stroke	mm		50 to 1100		
Screw lead	mm	5	10	20	
Max. workload kg	Horizontal	80.0	70.0	30.0	
*1	Vertical	43.3	28.3	3.3	
Operation speed ra	ange *2 mm/s	6 to 150	12 to 250	25 to 500	
Max. acceleration/	Horizontal	0.7	0.7	0.7	
deceleration G Vertical		0.3	0.3	0.3	
Maximum pushing force N		965	482	241	
Pressing operation speed rangemm/s		5 to 20	5 to 20	5 to 20	
Repeatability mm		±0.01			
Lost motion	mm	0.1 or less			
Static allowable m	oment N·m	MP:203 MY:203 MR:336			
Motor power suppl	y voltage	24 VDC ±10%			
Model, p	ower supply voltage	Non-exci	itation operation, 24 VI	OC ±10%	
Brake Power	consumptionW		7.2		
Holdi	ng force N	768 384 192		192	
Insulation resistan	ce	10 MΩ, 500 VDC			
Withstand voltage		500 VAC for 1 minute			
Operating ambient temperature, humidity		10 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 or explosive gas			
Degree of protection	on	IP50			

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 49 for details. *2 The maximum speed may decrease depending on the conditions.

(mm/s)

Thread			Stroke		
Lead	50 to 900	950	1000	1050	1100
5	150	145	130	120	110
10	250	250	250	240	220
20	500	500	500	480	440

Speed and load capacity

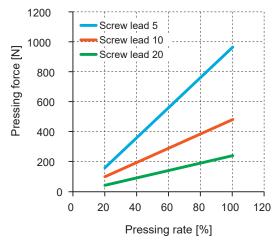
[When installed horizontally]

						(kg)
		Acceleration/deceleration (G)				
		0.3			0.7	
Speed			Screw le	ad (mm)		
(mm/s)	5	10	20	5	10	20
6	80.0			80.0		
12	80.0	70.0		80.0	70.0	
25	80.0	70.0	30.0	80.0	70.0	26.7
50	80.0	70.0	30.0	80.0	70.0	26.7
75	80.0	70.0	30.0	80.0	70.0	26.7
100	40.0	70.0	30.0	40.0	70.0	26.7
125	40.0	70.0	30.0	40.0	70.0	18.3
150	40.0	70.0	30.0	35.0	70.0	18.3
200		28.3	30.0		17.5	18.3
250		28.3	26.7		17.5	18.3
300			26.7			18.3
400			20.0			11.7
500			3.3			

[When installed vertically]

			(kg)	
	Acceleration/deceleration (G)			
		0.3		
Speed	Scre	ew lead (r	mm)	
(mm/s)	5	10	20	
6	43.3			
12	43.3	28.3		
25	43.3	28.3	3.3	
50	43.3	28.3	3.3	
75	15.0	12.5	3.3	
100	15.0	12.5	3.3	
125	2.9	10.0	3.3	
150	2.9	10.0	3.3	
200		1.7	3.3	
250		1.7	3.3	
300			3.3	
350			0.8	

Pressing force



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

Dimensions

Refer to page 28 for actuator dimensions. Refer to page 52 for fitting dimensions.

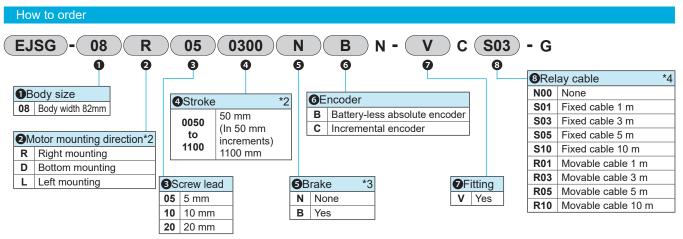


Electric actuator Slider Dust-proof **EJSG-08*- G**

Motor side mounting (left, right, bottom)

☐56 Stepping motor





- *1 Select the controller from page 117.
- *2 Motor mounting direction "D" If you select, the stroke is "0250 (250 mm)" to "1100(1100mm)" is the selection.
- *3 When using vertically, select "Yes".
- *4 Refer to page 128 for relay cable dimensions.
- *5 When the product is shipped, the actuator body is supplied with protective parts for the connector.

Motor			ECG-A			
	□56 Stepping motor					
Encoder type	Battery-less absolute encoder Incremental encoder					
Drive method		Ball screw ø15				
Stroke mm		50 to 1100				
Screw lead mm	5	10	20			
Max. workload kg Horizontal	80.0	70.0	30.0			
*1 Vertical	33.3	18.3	3.3			
Operation speed range *2 mm/s	6 to 125	12 to 250	25 to 400			
Max. acceleration/ Horizontal	0.7	0.7	0.7			
deceleration G Vertical	0.3	0.3	0.3			
Maximum pushing force N	965	482	241			
Pressing operation speed rangemm/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%					
Model, power supply voltage	Non-exci	tation operation, 24 VI	C ±10%			
Brake Power consumptionW		7.2				
Holding force N	768	384	192			
Insulation resistance	10 MΩ, 500 VDC					
Withstand voltage	500 VAC for 1 minute					
Operating ambient temperature, humidity	10 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 or explosive gas					
Autiosphere	IP50					

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 51 for details.

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

(mm/s)

Thread		Stroke	
Lead	50 to 1000	1050	1100
5	125	120	110
10	250	240	220
20	400	400	400

Speed and load capacity

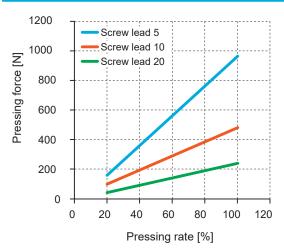
[When installed horizontally]

						(kg)
		Acceleration/deceleration (G)				
		0.3			0.7	
Speed			Screw le	ad (mm)		
(mm/s)	5	10	20	5	10	20
6	80.0			80.0		
12	80.0	70.0		80.0	70.0	
25	80.0	70.0	30.0	80.0	70.0	26.7
50	80.0	70.0	30.0	80.0	70.0	26.7
75	68.3	70.0	30.0	68.3	70.0	26.7
100	40.0	70.0	30.0	40.0	70.0	26.7
125	40.0	70.0	30.0	40.0	30.0	18.3
150		70.0	30.0		30.0	18.3
200		28.3	30.0		17.5	18.3
250		21.7	6.7		17.5	6.7
300			6.7			6.7
400			3.3			3.3

[When installed vertically]

			(kg)	
	Acceleration/deceleration (G)			
		0.3		
Speed	Scre	ew lead (ı	mm)	
(mm/s)	5	10	20	
6	33.3			
12	33.3	18.3		
25	33.3	18.3	3.3	
50	25.0	18.3	3.3	
75	15.0	12.5	3.3	
100	12.5	12.5	3.3	
125	2.9	8.3	3.3	
150		8.3	3.3	
200		1.7	3.3	
250			3.3	
300			3.3	
350			0.8	

Pressing force

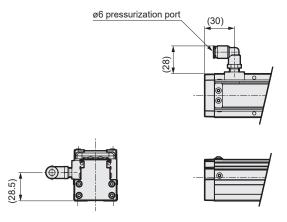


^{*}The above pressing force is a reference value. Variation may occur according to conditions such as pressing speed.

Dimensions

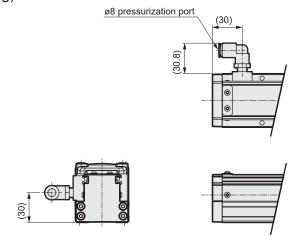
Refer to pages 32 to 34 for actuator dimensions. Refer to page 52 for fitting dimensions.

EJSG-04-V-G (fitting)



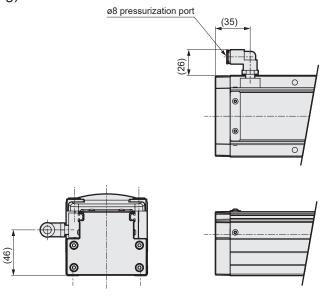
^{*} Refer to pages 8, 12 to 14 for actuator dimensions.

● EJSG-05-V-G (fitting)



^{*} Refer to pages 18, 22 to 24 for actuator dimensions.

● EJSG-08-V-G (fitting)



 $^{^{\}ast}$ Refer to pages 28, 32 to 34 for actuator dimensions.

Degree of protection

- Degree of protection
- ■IEC (International Electrotechnical Commission) standards (IEC60529)
- JIS C 0920: 2003



1st characteristic No. (degree of protection for foreign solid matter)

1st characteristic No.		protection
0	No protection	
1	○ø50 mm	Protection against inflow of solids 50 mm and over in diameter
2	○ø12.5 mm	Protection against inflow of solids 12.5 mm and over in diameter
3	→ - 2.5 mm	Protection against inflow of solids 2.5 mm and over in diameter
4	→∏- 1 mm	Protection against inflow of solids 1.0 mm and over in diameter
5	Dust-proof	No inflow of dust at levels adversely affecting normal device operation or safety
6	Dust resistant	No inflow of dust

2nd characteristic No. (degree of protection for water entry)

2nd characteristic No.	Degree of	protection
0	No protection	
1	Protection against water dripping	No harmful effects from water dripping vertically.
2	Protection against dripping water tilted at an angle of up to 15°	Water dripping vertically has no adverse effect when the product is tilted at an angle of up to 15° from its normal position.
3	Protection for watering	Water sprayed at up to 60° from the vertical has no adverse effect.
4	Protection against splashing water	Water splashing against the product from any direction has no adverse effect.
5	Protection against water jets	No harmful effects occur even when water is sprayed with nozzles from all directions.
6	Protection against powerful water jets	Water projected in powerful jets against the product from any direction has no adverse effect.
7	Protection against immersion	Water will not enter the product even when it is immersed in water under defined conditions.
8	Protection against immersion	The product can be used for continuous immersion in water.

EJSG

EJSG-P4

1 Technical

EJSG-C

Slider low dust specification

Electric actuator Motor specification



Product introduction	Intro
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● Specifications/How to order/Dimensions	
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Model Selection Check Sheet

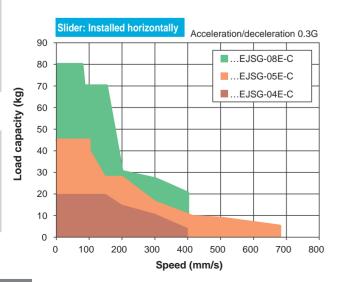
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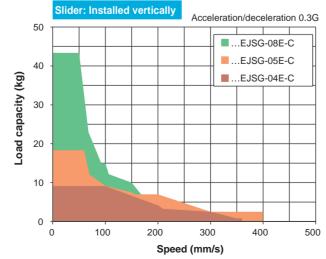
Series variation

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	m
	-

roller	Astroto	r Model No.	Motor Size	Motor	Body	Screw	Max. capaci	load ity (kg)	Max. Pressing																						
Controller	Actuato	i Model No.	Size	Direction	Body width (mm)	(mm)	Horizontal	Vertical	force (N)	50 mm 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000 1050 1100	page																				
		EJSG-04E06-C		ight		6	20.0	9.2	155	260 mm/s 250 220 190 170	<i>-</i> - 0																				
	Con	EJSG-04E12-C		Straight	44	12	15.0	3.3	77	400 390 340	58																				
		EJSG-04R/D/L06-C	- □ 35	Left/Right/ Bottom	44	6	20.0	9.2	155	200 190 170	00																				
		EJSG-04R/D/L12-C		Left/F Bott		12	11.7	3.3	77	320	60																				
- 1		EJSG-05E05-C		Ħ		5	40.0	14.0	220	230 225 200 175 150																					
1		EJSG-05E10-C		Straight		10	27.5	7.0	110	400 355 315	62																				
		EJSG-05E20-C							S				S		S	S	S	S	S	()	S	S	S	()	F.4	20	18.3	2.5	55	680	
	- S	EJSG-05R/D/L05-C	42) H	54	5	40.0	10.0	220	200 175 150																					
4		EJSG-05R/D/L10-C															Left/Right/ Bottom		10	27.5	3.3	110	320	64							
		EJSG-05R/D/L20-C		Let		20	18.3	0.8	55	560																					
		EJSG-08E05-C		Ħ		5	80.0	43.3	965	120																					
		EJSG-08E10-C		Straight		10	70.0	28.3	482	200	66																				
B F		EJSG-08E20-C		Ó	00	20	30.0	3.3	241	400																					
	4	EJSG-08R/D/L05-C	- □ 56	ht c	82	5	80.0	33.3	965	100																					
ECG Series	1	EJSG-08R/D/L10-C		Left/Right/ Bottom		10	70.0	18.3	482	200	68																				
001100	100	EJSG-08R/D/L20-C		Le		20	30.0	3.3	241	320																					

^{*} This data is obtained at an acceleration/deceleration of 0.3G.





^{*} The load capacity when wall mounted is the same as for horizontal installation.



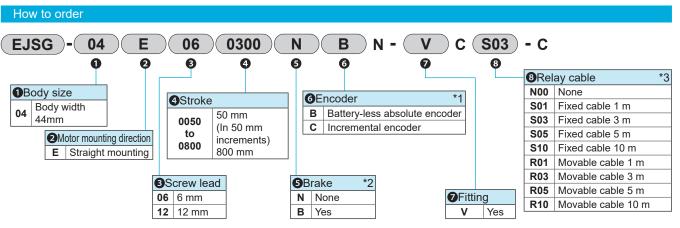
Electric actuator Slider Low dust specification

EJSG-04E-C

Straight motor mounting

☐35 Stepping motor





- *1 Select the controller from page 117.
- *2 When using vertically, select "Yes".
- *3 Refer to page 128 for relay cable dimensions.

Supported	controlle	ers	ECG-A		
Motor			□35 Stepp	ping motor	
Encoder typ	ре		Battery-less absolute encoder Incremental encoder		
Drive metho	od		Ball scr	ew ø10	
Stroke		mm	50 to	800	
Screw lead		mm	6	12	
Max. worklo	oad kg	Horizontal	20.0	15.0	
*1	ŭ	Vertical	9.2	3.3	
Operation s	peed ra	nge *2mm/s	7 to 260	15 to 400	
Max. accele	eration/	Horizontal	0.7	0.7	
deceleration	n G	Vertical	0.3	0.3	
Maximum p	ushing f	orce N	155	77	
Pressing oper	ation spe	ed rangemm/s	5 to 20	5 to 20	
Repeatabili	ty	mm	±0.01		
Lost motion	1	mm	0.1 or less		
Static allow	able mo	ment N·m	MP:62 MY:62 MR:92		
Motor powe	er supply	voltage	24 VDC ±10%		
	Model, pow	ver supply voltage	Non-excitation opera	ation, 24 VDC ±10%	
Brake	Power co	onsumptionW	6.	1	
	Holding	force N	140	70	
Insulation re	esistanc	е	10 MΩ, 5	500 VDC	
Withstand \	/oltage		500 VAC fo	or 1 minute	
Operating ambient temperature, humidity			10 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	Э		No corrosive gas, ex	plosive gas, or dust	

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 59 for details.

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

(mm/s)

Caraviland	Stroke						
Screw lead	50 to 600	650	700	750	800		
6	260	250	220	190	170		
12	400	400	400	390	340		

Speed and load capacity

[When installed horizontally]

(kg)

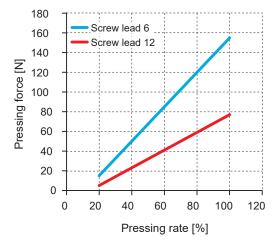
	Acceleration/deceleration (G)						
	0	.3	0.7				
Speed		Screw le	ad (mm)				
(mm/s)	6	12	6	12			
7	20.0		20.0				
15	20.0	15.0	20.0	11.0			
50	20.0	15.0	20.0	11.0			
100	20.0	15.0	20.0	11.0			
150	20.0	15.0	12.5	10.8			
200	15.0	15.0	12.5	10.8			
250	11.7	10.8	11.7	8.3			
260	10.9	10.8	10.9	8.3			
300		10.8		8.3			
320		9.5		7.5			
400		4.2		4.2			

[When installed vertically]

(kg)

	Acceleration/deceleration (G)					
	0.3					
Speed	Screw le	ead (mm)				
(mm/s)	6	12				
7	9.2					
15	9.2	3.3				
50	9.2	3.3				
100	9.2	3.3				
150	6.7	3.3				
180	5.2	3.3				
200	4.2	3.3				
220	2.2	2.7				
280		2.7				
300		2.5				
350		0.8				
360		0.8				

Pressing force



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

Refer to page 8 for actuator dimensions.

Refer to page 70 for fitting dimensions.



Electric actuator Slider Low dust specification

EJSG-04*-C

Motor side mounting (left, right, bottom)



How to order								
EJSG - 04 R	06	0300	N	B N -	V	S03	- C	
Body size	3	4	6	6	•	. .	8Rel	ay cable *5
	6 01 1	*0*0		Encoder		n	N00	None
04 Body width 44mm	4Stroke					4	S01	Fixed cable 1 m
	0050	50 mm	В				S03	Fixed cable 3 m
2Motor mounting direction*2*3	to	(In 50 mm		Incremental end	coder	J	S05	Fixed cable 5 m
R Right mounting	0800	increments) 800 mm					S10	Fixed cable 10 m
D Bottom mounting		000 111111	'				R01	Movable cable 1 m
L Left mounting	OC areas la	o d	6 Bra	ake *4			R03	Movable cable 3 m
	3Screw le		_			Fittina *3	R05	Movable cable 5 m
	06 6 mm			Vone	0	9	R10	Movable cable 10 m
	12 12 mm	1	В	Yes		V Yes		

- *1 Select the controller from page 117.
- *2 When selecting the motor mounting direction "D", the stroke is "0250 (250 mm)" to "0800(800mm)" is the selection.
 *3 For the motor mounting direction "L", 0050 (50 mm) stroke cannot be selected.
- *4 When using vertically, select "Yes".
- *5 Refer to page 128 for relay cable dimensions.

Supported controllers			ECG-A		
Motor			□35 step	per motor	
Encoder typ	ре		Battery-less absolute encoder Incremental encoder		
Drive metho	od		Ball scr	ew ø10	
Stroke		mm	50 to	800	
Screw lead		mm	6	12	
Max. worklo	oad kg	Horizontal	20.0	11.7	
*1	ŭ	Vertical	9.2	3.3	
Operation s	peed rai	nge *2mm/s	7 to 200	15 to 320	
Max. accele	eration/	Horizontal	0.7	0.7	
deceleration	n G	Vertical	0.3	0.3	
Maximum p	ushing f	orce N	155	77	
Pressing oper	ation spee	ed rangemm/s	5 to 20	5 to 20	
Repeatabili	ty	mm	±0.01		
Lost motion	1	mm	0.1 or less		
Static allow	able mo	ment N·m	MP:62 MY:62 MR:92		
Motor powe	er supply	voltage	24 VDC ±10%		
	Model, pow	ver supply voltage	Non-excitation opera	ation, 24 VDC ±10%	
Brake	Power co	onsumption W	6.	1	
	Holding	force N	140	70	
Insulation re	esistanc	е	10 ΜΩ, 5	500 VDC	
Withstand \	/oltage		500 VAC fo	or 1 minute	
Operating ambient temperature, humidity			10 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	е		No corrosive gas, ex	plosive gas, or dust	

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 61 for details.

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

(mm/s)

Screw lead	Stroke					
Screw lead	50 to 700	750	800			
6	200	190	170			
12	320	320	320			

Speed and load capacity

[When installed horizontally]

(kg)

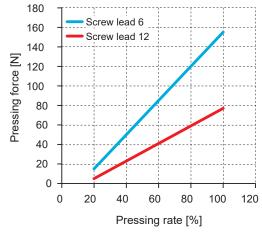
	Acceleration/deceleration (G)					
	0	.3	0	.7		
Speed		Screw le	ad (mm)			
(mm/s)	6	12	6	12		
7	20.0		20.0			
15	20.0	11.7	20.0	10.0		
50	20.0	11.7	20.0	10.0		
100	20.0	11.7	20.0	10.0		
150	13.3	11.7	11.7	10.0		
200	13.3	11.7	10.0	10.0		
300		8.3		8.3		
320		7.3		7.3		

[When installed vertically]

(kg)

	Acceleration/deceleration (G)				
	0.	.3			
Speed	Screw le	ad (mm)			
(mm/s)	6	12			
7	9.2				
15	9.2	3.3			
50	9.2	3.3			
100	6.7	3.3			
150	3.3	3.3			
180	2.8	3.3			
200		3.3			
280		2.0			

Pressing force



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

Dimensions

Refer to pages 12 to 14 for actuator dimensions.

Refer to page 70 for fitting dimensions.



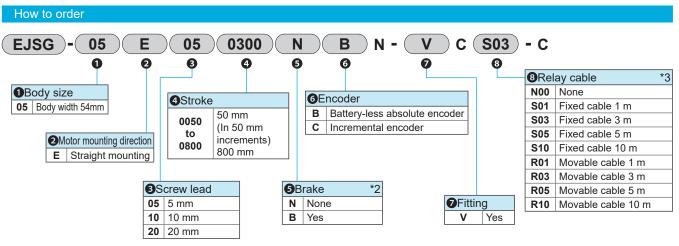
Electric actuator Slider Low dust specification

EJSG-05E-C

Straight motor mounting

☐42 Stepper motor





- *1 Select the controller from page 117.
- *2 When using vertically, select "Yes".
- *3 Refer to page 128 for relay cable dimensions.

Supported controllers				ECG-A		
Motor			□42 Stepper motor			
Encoder typ	ре		Battery-less absolute encoder Incremental encoder			
Drive metho	od			Ball screw ø12		
Stroke		mm		50 to 800		
Screw lead		mm	5	10	20	
Max. worklo	ad kg	Horizontal	40.0	27.5	18.3	
*1		Vertical	14.0	7.0	2.5	
Operation s	peed rar	nge *2mm/s	6 to 230	12 to 400	25 to 680	
Maximum acce	eleration/	Horizontal	0.7	0.7	0.7	
deceleration G		Vertical	0.3	0.3	0.3	
Maximum p	ushing f	orce N	220	110	55	
Pressing oper	ation spee	ed rangemm/s	5 to 20	5 to 20	5 to 20	
Repeatabili	ty	mm	±0.01			
Lost motion	ı	mm	0.1 or less			
Static allow	able mo	ment N·m	MP:103 MY:103 MR:144			
Motor powe	r supply	voltage	24 VDC ±10%			
	Model, pow	er supply voltage	Non-exc	itation operation, 24 VI	OC ±10%	
Brake	Power co	onsumption W		6.1		
	Holding	force N	168	84	42	
Insulation re	esistanc	е		10 MΩ, 500 VDC		
Withstand v	oltage			500 VAC for 1 minute		
Operating ambient temperature			10 to 40 °C (no freezing)			
Storage ambient temperature			-10 to 50°C (no freezing)			
Atmosphere	9		No corro	sive gas, explosive gas	s, or dust	

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 63 for details.

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

(mm/s)

Screw lead		Stro	ke		
Screw lead	50 to 600	650	700	750	800
5	230	225	200	175	150
10	400	400	400	355	315
20	680	680	680	680	630

Speed and load capacity

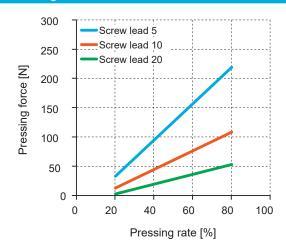
[When installed horizontally]

						(kg)
		Accel	eration/d	eceleratio	n (G)	
		0.3			0.7	
Speed			Screw le	ad (mm)		
(mm/s)	5	10	20	5	10	20
6	40.0			40.0		
12	40.0	27.5		40.0	27.5	
25	40.0	27.5	18.3	40.0	27.5	8.3
50	40.0	27.5	18.3	40.0	27.5	8.3
100	40.0	27.5	18.3	40.0	27.5	8.3
150	26.7	27.5	10.0	26.7	27.5	6.7
200	26.7	27.5	10.0	26.7	27.5	6.7
230	26.7	15.8	10.0	26.7	12.5	6.7
300		15.8	10.0		12.5	6.7
320		14.6	8.3		11.8	5.0
400		10.0	8.3		9.2	5.0
500			8.3			5.0
560			7.1			4.3
680			4.6			2.8

[When installed vertically]

(kg) Acceleration/deceleration (G) 0.3 Speed Screw lead (mm) (mm/s) 10 20 5 14.0 6 12 14.0 7.0 14.0 25 7.0 2.5 50 14.0 7.0 2.5 100 9.2 7.0 2.5 150 7.5 7.0 2.5 170 6.2 7.0 2.5 4.2 2.5 200 7.0 260 4.3 2.5 300 2.5 2.5 325 2.1 2.5 2.1 340 2.5 400

Pressing force



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

Dimensions

Refer to page 18 for actuator dimensions. Refer to page 70 for fitting dimensions.



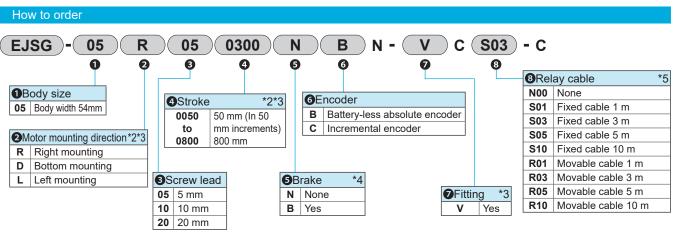
Electric actuator Slider Low dust specification

EJSG-05*-C

Motor side mounting (left, right, bottom)

☐42 Stepper motor





- *1 Select the controller from page 117.
- *2 When the motor mounting direction "D" is selected, the stroke is selected from "0250 (250 mm)" to "0800 (800 mm)". *3 For the motor mounting direction "L", 0050 (50 mm) stroke cannot be selected.
- *4 When using vertically, select "Yes"
- *5 Refer to page 128 for relay cable dimensions.

Supported controllers			ECG-A			
Motor			☐42 Stepper motor			
Encoder ty	ре		Battery-less absolute encoder Incremental encoder			
Drive meth	od			Ball screw ø12		
Stroke		mm		50 to 800		
Screw lead		mm	5	10	20	
Max. workle	oad kg	Horizontal	40.0	27.5	18.3	
*1	ŭ	Vertical	10.0	3.3	0.8	
Operation s	speed rai	nge *2mm/s	6 to 200	12 to 320	25 to 560	
Maximum acc	eleration/	Horizontal	0.7	0.7	0.7	
deceleration (3	Vertical	0.3	0.3	0.3	
Maximum pushing force N		220	110	55		
Pressing operation speed rangemm/s		ed rangemm/s	5 to 20	5 to 20	5 to 20	
Repeatabili	ity	mm	±0.01			
Lost motion	า	mm	0.1 or less			
Static allow	able mo	ment N·m	MP:103 MY:103 MR:144			
Motor power	er supply	voltage	24 VDC ±10%			
	Model, pow	er supply voltage	Non-excitation operation, 24 VDC ±10%			
Brake	Power co	onsumptionW		6.1		
	Holding	force N	168	84	42	
Insulation r	esistanc	е	10 MΩ, 500 VDC			
Withstand voltage				500 VAC for 1 minute		
Operating ambient temperature, humidity			0 to 40 °C (no freezing 80% RH (no condensation)	,,		
Storage am humidity	nbient tei	mperature,	-10 to 50°C (no freezing) 35 to 80% RH (no condensation)			
Atmospher	е		No corro	sive gas, explosive ga	s, or dust	
1 Lond consist various according to application (deceleration and appending to page 65 for details						

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 65 for details.

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

(mm/s)

			,		
Screw lead	Stroke				
Screw lead	50 to 700	750	800		
5	200	175	150		
10	320	320	315		
20	560	560	560		

Speed and load capacity

[When installed horizontally]

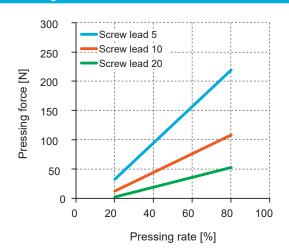
						(kg)
		Accel	eration/d	eceleratio	n (G)	
		0.3			0.7	
Speed			Screw le	ad (mm)		
(mm/s)	5	10	20	5	10	20
6						
12						
25						
50						
100						
150						
200						
300						
320						
500						
560						

[When installed vertically]

(kg)

	Acceleration/deceleration (G)			
	0.3			
Speed	Scre	ew lead (r	mm)	
(mm/s)	5	10	20	
6	10.0			
12	10.0	3.3		
25	10.0	3.3	0.8	
50	10.0	3.3	0.8	
100	8.3	3.3	0.8	
150	6.7	2.1	0.8	
170	5.0	2.1	0.8	
200		2.1	0.8	
260		1.6	0.8	
400			0.8	

Pressing force



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

Dimensions

Refer to pages 22 to 24 for actuator dimensions.

Refer to page 70 for fitting dimensions.



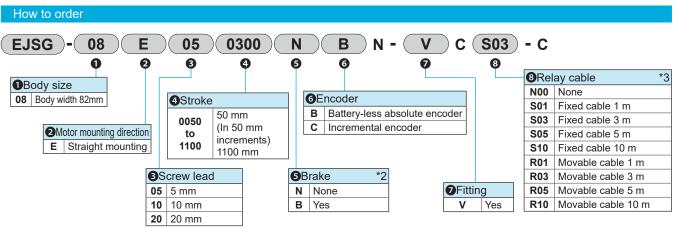
Electric actuator Slider Low dust specification

EJSG-08E-C

Straight motor mounting

☐56 Stepping motor





- *1 Select the controller from page 117.
- *2 When using vertically, select "Yes".
- *3 Refer to page 128 for relay cable dimensions.

Supported controllers		ECG-A				
Motor			☐56 Stepping motor			
Encoder type		Battery-less absolute encoder Incremental encoder				
Drive metho	od			Ball screw ø15		
Stroke		mm		50 to 1100		
Screw lead		mm	5	10	20	
Max. worklo		Horizontal	80.0	70.0	30.0	
*1		Vertical	43.3	28.3	3.3	
Operation s	peed ra	nge mm/s	6 to 120	12 to 200	25 to 400	
Max. accele	eration/	Horizontal	0.7	0.7	0.7	
deceleration	n G	Vertical	0.3	0.3	0.3	
Maximum pushing force N		965	482	241		
Pressing operation speed rangemm/s		ed rangemm/s	5 to 20	5 to 20	5 to 20	
Repeatabili	ty	mm	±0.01			
Lost motion	l	mm	0.1 or less			
Static allow	able mo	ment N·m	MP:203 MY:203 MR:336			
Motor powe	r supply	voltage	24 VDC ±10%			
	Model, pow	ver supply voltage	Non-excitation operation, 24 VDC ±10%			
Brake	Power co	onsumptionW		7.2		
	Holding	force N	768	384	192	
Insulation re	esistanc	е	10 MΩ, 500 VDC			
Withstand voltage		500 VAC for 1 minute				
Operating ambient temperature		10 to 40 °C (no freezing) 35 to 80% RH (no condensation)				
Storage am	bient tei	mperature	-10 to 50°C (no freezing) 35 to 80% RH (no condensation)			
Atmosphere	Э		No corro	sive gas, explosive ga	s, or dust	

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 67 for details.

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

(mm/s)

		(111111110)
Screw lead	Stroke	;
	50 to 1050	1100
5	120	110
10	200	200
20	400	400

Speed and load capacity

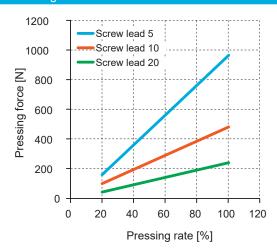
[When installed horizontally]

						(kg)
		Accel	eration/d	eceleratio	n (G)	
		0.3			0.7	
Speed			Screw le	ad (mm)		
(mm/s)	5	10	20	5	10	20
6	80.0			80.0		
12	80.0	70.0		80.0	70.0	
25	80.0	70.0	30.0	80.0	70.0	26.7
50	80.0	70.0	30.0	80.0	70.0	26.7
75	80.0	70.0	30.0	80.0	70.0	26.7
100	40.0	70.0	30.0	40.0	70.0	26.7
120	40.0	70.0	30.0	40.0	70.0	18.3
150		70.0	30.0		70.0	18.3
200		28.3	30.0		17.5	18.3
300			26.7			18.3
320			25.4			17.0
400			20.0			

[When installed vertically]

			(kg)	
	Accelerat	Acceleration/deceleration (G)		
		0.3		
Speed	Scre	ew lead (ı	mm)	
(mm/s)	5	10	20	
6	43.3			
12	43.3	28.3		
25	43.3	28.3	3.3	
50	43.3	28.3	3.3	
75	15.0	12.5	3.3	
100	15.0	12.5	3.3	
120	5.3	10.0	3.3	
150		10.0	3.3	
160		8.3	3.3	
200		1.7	3.3	
280			3.3	

Pressing force



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

Dimensions

Refer to page 28 for actuator dimensions. Refer to page 70 for fitting dimensions.



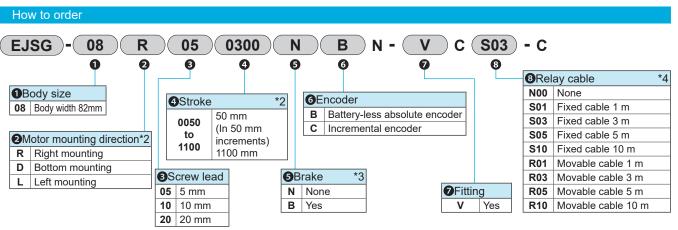
Electric actuator Slider Low dust specification

EJSG-08*-C

Motor side mounting (left, right, bottom)

☐56 Stepping motor





- *1 Select the controller from page 117.
- *2 When the motor mounting direction "D" is selected, the stroke is selected from "0250 (250 mm)" to "1100 (1100 mm)".
- *3 When using vertically, select "Yes".
- *4 Refer to page 128 for relay cable dimensions.

Supported controllers	ECG-A			
Motor	☐56 Stepping motor			
Encoder type	Battery-less absolute encoder Incremental encoder			
Drive method		Ball screw ø15		
Stroke mm		50 to 1100		
Screw lead mm	5	10	20	
Max. workload kg Horizontal	80.0	70.0	30.0	
*1 Vertical	33.3	18.3	3.3	
Operation speed range *2 mm/s	6 to 100	12 to 200	25 to 320	
Max. acceleration/ Horizontal	0.7	0.7	0.7	
deceleration G Vertical	0.3	0.3	0.3	
Maximum pushing force N	965	482	241	
Pressing operation speed rangemm/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%			
Model, power supply voltage	Non-excitation operation, 24 VDC ±10%			
Brake Power consumptionW		7.2		
Holding force N	768	384	192	
Insulation resistance		10 MΩ, 500 VDC		
Withstand voltage		500 VAC for 1 minute		
Operating ambient temperature, humidity	10 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 corro	sive gas, explosive ga	s, or dust	

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 69 for details.

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

(mm/s)

	, ,
Screw lead	Stroke
Screw lead	50 to 1100
5	100
10	200
20	320

Speed and load capacity

[When installed horizontally]

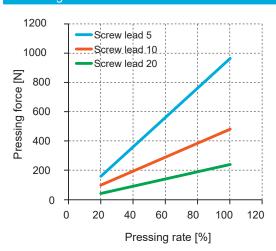
						(kg)
	Acceleration/deceleration (G)					
	0.3			0.7		
Speed	Screw lead (mm)					
(mm/s)	5	10	20	5	10	20
6	80.0			80.0		
12	80.0	70.0		80.0	70.0	
25	80.0	70.0	30.0	80.0	70.0	26.7
50	80.0	70.0	30.0	80.0	70.0	26.7
75	68.3	70.0	30.0	68.3	70.0	26.7
100	40.0	70.0	30.0	40.0	70.0	26.7
150		70.0	30.0		30.0	18.3
200		28.3	30.0		17.5	18.3
300			6.7			6.7
320			6.0			6.0

[When installed vertically]

(kg)

	Acceleration/deceleration (G)				
	0.3				
Speed	Screw lead (mm)				
(mm/s)	5	10	20		
6	33.3				
12	33.3	18.3			
25	33.3	18.3	3.3		
50	25.0	18.3	3.3		
75	15.0	12.5	3.3		
100	12.5	12.5	3.3		
150		8.3	3.3		
160		7.0	3.3		
200			3.3		
280			3.3		

Pressing force

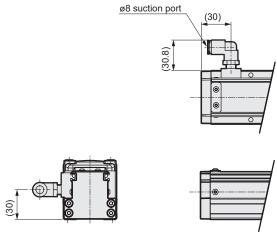


^{*}The above pressing force is a reference value. Variation may occur according to conditions such as pressing speed.

Refer to pages 32 to 34 for actuator dimensions.

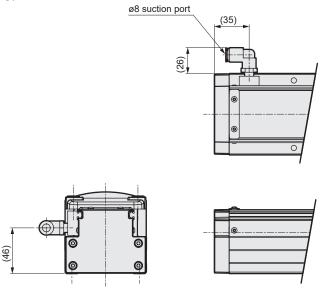
Refer to page 70 for fitting dimensions.

● EJSG-05-V-C (fitting)



^{*} Refer to pages 18, 22 to 24 for actuator dimensions.

● EJSG-08-V-C (fitting)

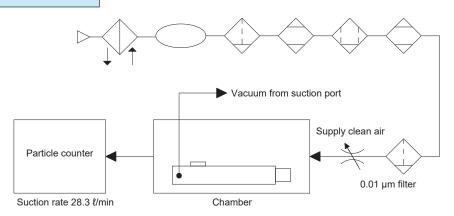


 $^{^{\}ast}$ Refer to pages 28, 32 to 34 for actuator dimensions.

^{*} Refer to pages 8, 12 to 14 for actuator dimensions.

Dust generation characteristics Reference data

Test circuit



Measuring conditions

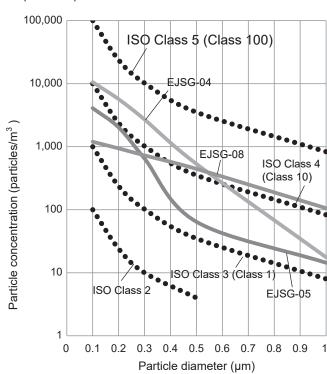
	Item	Description
		EJSG-04E120500*-*-C
	Model No.	EJSG-05E200500*-*-C
Test		EJSG-08E200600*-*-C
sample	Operating speed	100mm/sec
	Acceleration/deceleration time	0.3G
	Suction flow rate	30.0l/min
	Name	Laser dust monitor
Particle	Min. measurable	0.1 µm
Counter	particle diameter	υ. τ μπ
	Intake	28.3{/min
Measuring conditions	Measurement time	10min

Measuring method

- (1) Set a test sample (EJSG-*-C) in the chamber.
- (2) Test is started from the suction port of the vacuum sample. Clean air supplied in the same quantity as the particle counter suction rate (28.3l/min).
- (3) Confirm that the background measurement value is 0.
- (4) A test sample is operated to measure the change of particle concentration in a specified cycle.

Dust generation data

Operation speed: 100mm/sec



EJSG-P4

Electric actuator Motor specification

Compatible with slider type rechargeable battery manufacturing processes



CONTENTS

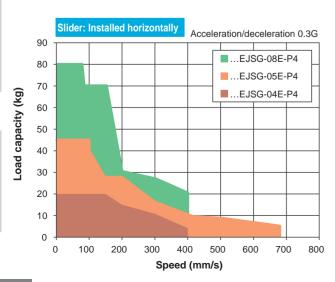
Product introduction	Intro
Series variation	74
Specifications/How to order/Dimensions	
• EJSG-04*-P4	76
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Model selection	108
Technical data	110
▲ Safety precautions	132
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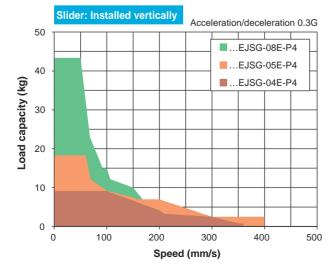
Series variation

l (n	(mm/s)								Listed	
00	750	800	850	900	950	1000	1050	1100	page	
20	190	170							76	핃
	390	340							70	EJSG
	190	170							78	
									70	<u>E</u>
00	175	150								EJSG-G
	355	315							80	
		630								叵
	175	150								EJSG-C
		315							82	_ (;)
										匝

oller			Motor	Motor	Body	Screw	Max.	(4 /L.a.)	Max.	Stroke (mm) and max. speed (mm/s)	Listed																
Controller	Actuato	r Model No.	Motor Size	Mounting Direction	width (mm)	lead (mm)	Horizontal	Vertical	. J		page																
		EJSG-04E06-P4		ight		6	20.0	9.2	155	260 mm/s 250 220 190 170	70																
	Co	EJSG-04E12-P4		Straight	44	12	15.0	3.3	77	400 390 340	76																
	5	EJSG-04R/D/L06-P4	- □ 35	sight/	44	6	20.0	9.2	155	200 190 170	70																
FEI		EJSG-04R/D/L12-P4		Left/Right/ Bottom		12	11.7	3.3	77	320	78																
- 1		EJSG-05E05-P4		#		5	40.0	14.0	220	230 225 200 175 150																	
- 31		EJSG-05E10-P4		Straight		10	27.5	7.0	110	400 355 315	80																
		EJSG-05E20-P4													_ - □ 42						54	20	18.3	2.5	55	680	
	The State of the S	EJSG-05R/D/L05-P4	− ⊔ 42		54	5	40.0	10.0	220	200 175 150																	
4		EJSG-05R/D/L10-P4		Left/Right/ Bottom		10	27.5	3.3	110	320 315	82																
		EJSG-05R/D/L20-P4		Lef	Lef	Lef		20	18.3	0.8	55	560															
		EJSG-08E05-P4		#		5	80.0	43.3	965	120																	
		EJSG-08E10-P4		Straight		10	70.0	28.3	482	200	84																
		EJSG-08E20-P4			00	20	30.0	3.3	241	400																	
	6	EJSG-08R/D/L05-P4	- □ 56		82	5	80.0	33.3	965	100																	
ECG Series		EJSG-08R/D/L10-P4		Left/Right/ Bottom		10	70.0	18.3	482	200	86																
	3	EJSG-08R/D/L20-P4		L Be		20	30.0	3.3	241	320																	

^{*} This data is obtained at an acceleration/deceleration of 0.3G.





CKD

^{*} The load capacity when wall mounted is the same as for horizontal installation.



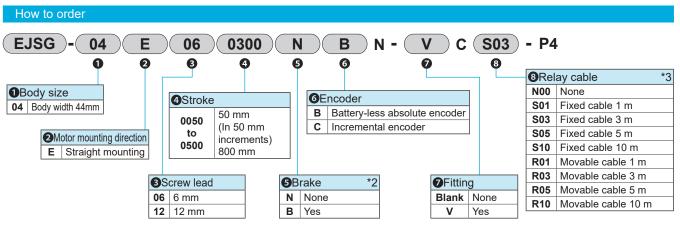
Slider Compatible with rechargeable battery Electric actuator manufacturing processes

EJSG-04E-P4

Straight motor mounting

☐35 Stepping motor





- *1 Select the controller from page 117.
- *2 When using vertically, select "Yes".
- *3 Refer to page 128 for relay cable dimensions.

Supported controllers			ECG-A		
Motor			□35 Stepp	ping motor	
Encoder type			Battery-less absolute encoder Incremental encoder		
Drive metho	od		Ball scr	ew ø10	
Stroke		mm	50 to	800	
Screw lead		mm	6	12	
Max. worklo	oad kg	Horizontal	20.0	15.0	
*1		Vertical	9.2	3.3	
Operation s	peed rai	nge *2mm/s	7 to 260	15 to 400	
Max. accele	eration/	Horizontal	0.7	0.7	
deceleration	n G	Vertical	0.3	0.3	
Maximum pushing force N			155	77	
Pressing operation speed rangemm/s			5 to 20	5 to 20	
Repeatabili	ty	mm	±0.01		
Lost motion	l	mm	0.1 or less		
Static allow	able mo	ment N·m	MP:62 MY:62 MR:92		
Motor powe	r supply	voltage	24 VDC ±10%		
Motor section m	ax. instanta	aneous currentA	2.4		
	Model, pow	er supply voltage	Non-excitation opera	ation, 24 VDC ±10%	
Brake	Power co	onsumptionW	6.	1	
	Holding	force N	140	70	
Insulation re	esistanc	е	10 ΜΩ, 5	500 VDC	
Withstand v	oltage		500 VAC fo	or 1 minute	
Operating a	mbient t	emperature	10 to 40 °C (no freezing)		
Storage am	bient tei	mperature	-10 to 50°C (no freezing)	
Atmosphere	Э		No corrosive gas, ex	plosive gas, or dust	

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 77 for details.

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

(mm/s)

Screw lead	Stroke					
	50 to 600	650	700	750	800	
6	260	250	220	190	170	
12	400	400	400	390	340	

Speed and load capacity

[When installed horizontally]

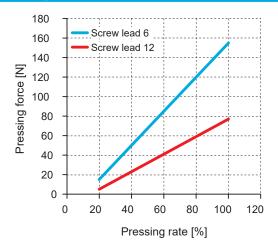
(kg) Acceleration/deceleration (G) 0.3 0.7 Speed Screw lead (mm) (mm/s) 6 12 6 12 7 20.0 20.0 20.0 15 15.0 20.0 11.0 50 20.0 15.0 20.0 11.0 100 20.0 15.0 20.0 11.0 150 20.0 15.0 12.5 10.8 200 15.0 15.0 12.5 10.8 250 11.7 11.7 8.3 10.8 260 10.9 10.8 10.9 8.3 300 8.3 10.8 320 7.5 400 4.2 4.2

[When installed vertically]

(kg)

	Acceleration/deceleration (G)				
	0.3				
Speed	Screw le	ad (mm)			
(mm/s)	6	12			
7	9.2				
15	9.2	3.3			
50	9.2	3.3			
100	9.2	3.3			
150	6.7	3.3			
180	5.2	3.3			
200	4.2	3.3			
220	2.2	2.7			
280		2.7			
300		2.5			
350		0.8			
360		0.8			

Pressing force



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

Dimensions

Refer to page 8 for actuator dimensions.

Refer to page 88 for dimensions with fittings.



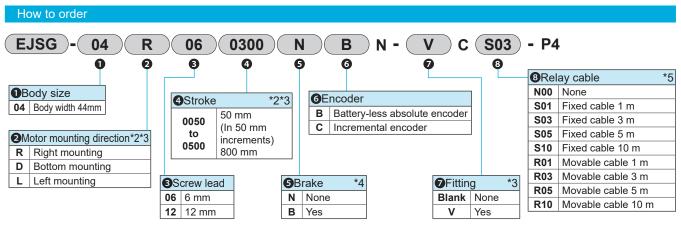
Electric actuator Slider Compatible with rechargeable battery manufacturing processes

EJSG-04*-P4

Motor side mounting (left, right, bottom)

☐35 Stepping motor





- *1 Select the controller from page 117.
- *2 If the motor mounting direction "D" is selected, the stroke will be from "0250 (250 mm)" to "0800 (800 mm)".
- *3 For the motor mounting direction "L" and with fitting "V", stroke 0050 (50 mm) cannot be selected
- *4 When using vertically, select "Yes".
- *5 Refer to page 128 for relay cable dimensions.

Supported	controlle	ers	ECG-A		
Motor			□35 step	per motor	
Encoder type			Battery-less absolute encoder Incremental encoder		
Drive method	od		Ball scr	ew ø10	
Stroke		mm	50 to	800	
Screw lead		mm	6	12	
Max. workle	oad kg	Horizontal	20.0	11.7	
*1	ŭ	Vertical	9.2	3.3	
Operation s	peed ra	nge *2mm/s	7 to 200	15 to 320	
Max. accele	eration/	Horizontal	0.7	0.7	
deceleratio	n G	Vertical	0.3	0.3	
Maximum pushing force N			155	77	
Pressing operation speed rangemm/s			5 to 20	5 to 20	
Repeatabili	ty	mm	±0.01		
Lost motion	1	mm	0.1 or less		
Static allow	able mo	ment N·m	MP:62 MY:62 MR:92		
Motor powe	er supply	voltage	24 VDC ±10%		
Motor section m	nax. instanta	aneous currentA	2.4		
	Model, pow	ver supply voltage	Non-excitation operation, 24 VDC ±10%		
Brake	Power co	onsumptionW	6	.1	
	Holding	force N	140	70	
Insulation r	esistanc	е	10 MΩ, 5	500 VDC	
Withstand v	/oltage		500 VAC fo	or 1 minute	
Operating a	mbient t	emperature	10 to 40 °C (no freezing)		
Storage am	bient te	mperature	-10 to 50°C (no freezing)		
Atmosphere	е		No corrosive gas, ex	cplosive gas, or dust	
1 Load capacity varies according to acceleration/decoloration and speed. Refer to page 70 for details					

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 79 for details.

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

(mm/s)

(kg)

8.3

7.3

Screw lead	Stroke				
	50 to 700	750	800		
6	200	190	170		
12	320	320	320		

Speed and load capacity

[When installed horizontally]

Acceleration/deceleration (G) 0.3 0.7 Speed Screw lead (mm) (mm/s) 6 12 6 12 7 20.0 20.0 15 20.0 11.7 20.0 10.0 50 20.0 11.7 20.0 10.0 20.0 10.0 100 20.0 11.7 10.0 150 13.3 11.7 11.7 200 13.3 11.7 10.0 10.0

8.3

7.3

[When installed vertically]

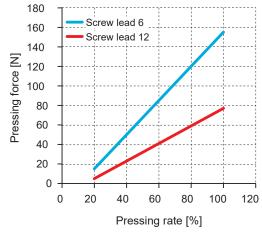
(kg)

	Acceleration/deceleration (G)				
	0.3				
Speed	Screw le	ead (mm)			
(mm/s)	6	12			
7	9.2				
15	9.2	3.3			
50	9.2	3.3			
100	6.7	3.3			
150	3.3	3.3			
180	2.8	3.3			
200		3.3			
280		2.0			

Pressing force

300

320



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

Refer to pages 12 to 14 for actuator dimensions. Refer to page 88 for dimensions with fittings.



Electric actuator Slider manufacturing processes

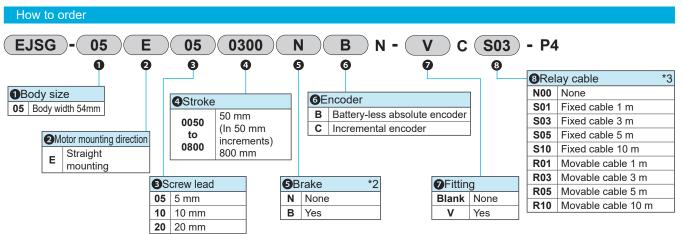
EJSG-05E-P4

Straight motor mounting

☐42 Stepper motor



Compatible with rechargeable battery



- *1 Select the controller from page 117.
- *2 When using vertically, select "Yes".
- *3 Refer to page 128 for relay cable dimensions.

Supported controllers	ECG-A			
Motor	□42 Stepper motor			
Encoder type	Battery-less absolute encoder Incremental encoder			
Drive method		Ball screw ø12		
Stroke mm		50 to 800		
Screw lead mm	5	10	20	
Max. workload kg Horizontal	40.0	27.5	18.3	
*1 Vertical	14.0	7.0	2.5	
Operation speed range *2mm/s	6 to 230	12 to 400	25 to 680	
Max. acceleration/ Horizontal	0.7	0.7	0.7	
deceleration G Vertical	0.3	0.3	0.3	
Maximum pushing force N	220	110	55	
Pressing operation speed rangemm/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:103 MY:103 MR:144			
Motor power supply voltage	24 VDC ±10%			
Motor section max. instantaneous currentA	2.7			
Model, power supply voltage	Non-excitation operation, 24 VDC ±10%			
Brake Power consumptionW		6.1		
Holding force N	168	84	42	
Insulation resistance		10 MΩ, 500 VDC		
Withstand voltage	500 VAC for 1 minute			
Operating ambient temperature	10 to 40 °C (no freezing)			
Storage ambient temperature	-10 to 50°C (no freezing)			
Atmosphere	No corro	sive gas, explosive ga	s, or dust	

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 81 for details.

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

(mm/s)

Screw lead		Stro	ke		
	50 to 600	650	700	750	800
5	230	225	200	175	150
10	400	400	400	355	315
20	680	680	680	680	630

Speed and load capacity

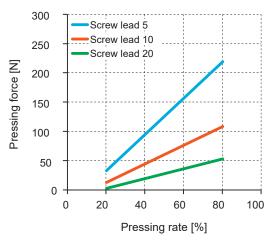
[When installed horizontally]

						(kg)	
		Acceleration/deceleration (G)					
		0.3			0.7		
Speed			Screw le	ad (mm)			
(mm/s)	5	10	20	5	10	20	
6	40.0			40.0			
12	40.0	27.5		40.0	27.5		
25	40.0	27.5	18.3	40.0	27.5	8.3	
50	40.0	27.5	18.3	40.0	27.5	8.3	
100	40.0	27.5	18.3	40.0	27.5	8.3	
150	26.7	27.5	10.0	26.7	27.5	6.7	
200	26.7	27.5	10.0	26.7	27.5	6.7	
230	26.7	15.8	10.0	26.7	12.5	6.7	
300		15.8	10.0		12.5	6.7	
320		14.6	8.3		11.8	5.0	
400		10.0	8.3		9.2	5.0	
500			8.3			5.0	
560			7.1			4.3	
680			4.6			2.8	

[When installed vertically]

(kg) Acceleration/deceleration (G) 0.3 Speed Screw lead (mm) (mm/s) 10 20 5 6 14.0 12 14.0 7.0 25 14.0 7.0 2.5 50 14.0 7.0 2.5 100 9.2 7.0 2.5 150 7.5 7.0 2.5 170 6.2 7.0 2.5 200 4.2 7.0 2.5 260 4.3 2.5 300 2.5 2.5 325 2.1 2.5 2.1 340 2.5 400 2.5

Pressing force



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

Dimensions

Refer to page 18 for actuator dimensions. Refer to page 88 for dimensions with fittings.



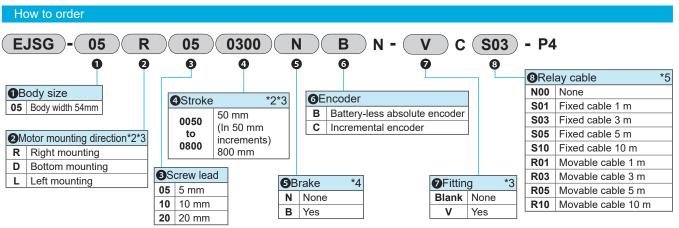
Electric actuator Slider Compatible with rechargeable battery manufacturing processes

EJSG-05*-P4

Motor side mounting (left, right, bottom)

☐42 Stepper motor





- *1 Select the controller from page 117.
 *2 When the motor mounting direction "D" is selected, the stroke is selected from "0250 (250 mm)" to "0800 (800 mm)".
- *3 For the motor mounting direction "L" and with fitting "V", stroke 0050 (50 mm) cannot be selected.
- *4 When using vertically, select "Yes".
- *5 Refer to page 128 for relay cable dimensions.

Supported controllers			ECG-A		
Motor		☐42 Stepper motor			
Encoder type		Bat	tery-less absolute enco	oder	
Drive method			Ball screw ø12		
Stroke	mm		50 to 800		
Screw lead	mm	5	10	20	
Max. workload	kg Horizontal	40.0	27.5	18.3	
*1	Vertical	10.0	3.3	0.8	
Operation spee	d range *2mm/s	6 to 200	12 to 320	25 to 560	
Max. acceleration	on/ Horizontal	0.7	0.7	0.7	
deceleration G	Vertical	0.3	0.3	0.3	
Maximum pushing force N		220	110	55	
Pressing operation	speed rangemm/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:103 MY:103 MR:144			
Motor power su	ipply voltage	24 VDC ±10%			
Motor section max. in	stantaneous currentA	2.7			
Mode	el, power supply voltage	Non-exci	tation operation, 24 V	DC ±10%	
Brake Pow	ver consumptionW		6.1		
Hol	lding force N	168	84	42	
Insulation resistance		10 MΩ, 500 VDC			
Withstand volta	ige	500 VAC for 1 minute			
Operating ambi	ent temperature	10 to 40 °C (no freezing)			
Storage ambier	nt temperature	-10 to 50°C (no freezing)			
Atmosphere		No corro	sive gas, explosive ga	s, or dust	

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 83 for details.

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

(mm/s)

			,		
Screw lead	Stroke				
	50 to 700	750	800		
5	200	175	150		
10	320	320	315		
20	560	560	560		

Speed and load capacity

[When installed horizontally]

(kg)

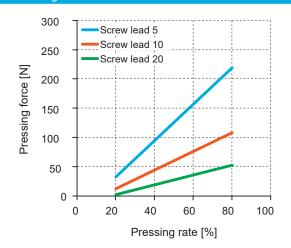
	Acceleration/deceleration (G)						
	0.3			0.7			
Speed			Screw le	ad (mm)			
(mm/s)	5	10	20	5	10	20	
6	40.0			40.0			
12	40.0	27.5		40.0	27.5		
25	40.0	27.5	18.3	40.0	27.5	7.5	
50	40.0	27.5	18.3	40.0	27.5	7.5	
100	40.0	27.5	18.3	40.0	27.5	7.5	
150	26.7	23.3	10.0	26.7	20.0	5.0	
200	26.7	23.3	10.0	26.7	20.0	5.0	
300		11.7	10.0		11.7	5.0	
320		10.0	6.7		10.0	4.2	
500			6.7			4.2	
560			5.7			3.5	

[When installed vertically]

(kg)

	Acceleration/deceleration (G)				
	0.3				
Speed	Scre	ew lead (r	mm)		
(mm/s)	5	10	20		
6	10.0				
12	10.0	3.3			
25	10.0	3.3	0.8		
50	10.0	3.3	0.8		
100	8.3	3.3	0.8		
150	6.7	2.1	0.8		
170	5.0	2.1	0.8		
200		2.1	0.8		
260		1.6	0.8		
400			0.8		

Pressing force



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

Dimensions

Refer to pages 22 to 24 for actuator dimensions.

Refer to page 88 for dimensions with fittings.



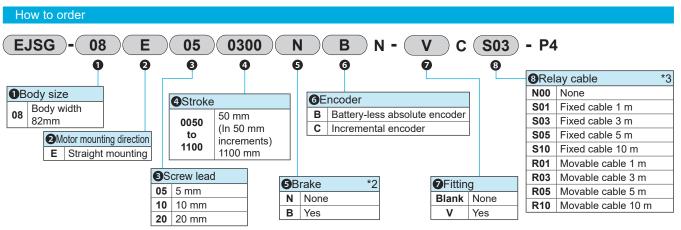
Electric actuator Slider Compatible with rechargeable battery manufacturing processes

EJSG-08E-P4

Straight motor mounting

☐56 Stepping motor





- *1 Select the controller from page 117.
- *2 When using vertically, select "Yes".
- *3 Refer to page 128 for relay cable dimensions.

Supported controllers		ECG-A				
Motor			□56 Stepper motor			
Encoder typ	ре		Battery-less absolute encoder Incremental encoder			
Drive metho	od			Ball screw ø15		
Stroke		mm		50 to 1100		
Screw lead		mm	5	10	20	
Max. workle	oad kg	Horizontal	80.0	70.0	30.0	
*1	ı	Vertical	43.3	28.3	3.3	
Operation s	peed rai	nge *2mm/s	6 to 120	12 to 200	25 to 400	
Max. accele	eration/	Horizontal	0.7	0.7	0.7	
deceleratio	n G	Vertical	0.3	0.3	0.3	
Maximum pushing force N			965	482	241	
Pressing operation speed rangemm/s		ed rangemm/s	5 to 20	5 to 20	5 to 20	
Repeatabili	ty	mm	±0.01			
Lost motion	1	mm	0.1 or less			
Static allow	able mo	ment N·m	MP:203 MY:203 MR:336			
Motor powe	er supply	voltage	24 VDC ±10%			
Motor section m	nax. instanta	neous currentA	4.0			
	Model, pow	er supply voltage	Non-excitation operation, 24 VDC ±10%			
Brake	Power co	onsumptionW		7.2		
	Holding	force N	768	384	192	
Insulation r	esistanc	е	10 MΩ, 500 VDC			
Withstand voltage			500 VAC for 1 minute			
Operating a	mbient t	emperature	10 to 40 °C (no freezing)			
Storage am	bient ter	mperature	-10 to 50°C (no freezing)			
Atmosphere	е		No corro	sive gas, explosive ga	s, or dust	

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 85 for details.

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

(mm/s)

		()	
Screw lead	Stroke		
	50 to 1050	1100	
5	120	110	
10	200	200	
20	400	400	

Speed and load capacity

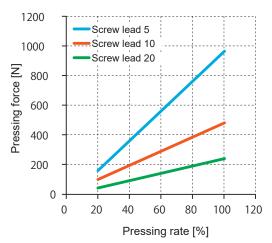
[When installed horizontally]

						(kg)	
		Acceleration/deceleration (G)					
		0.3			0.7		
Speed			Screw le	ad (mm)			
(mm/s)	5	10	20	5	10	20	
6	80.0			80.0			
12	80.0	70.0		80.0	70.0		
25	80.0	70.0	30.0	80.0	70.0	26.7	
50	80.0	70.0	30.0	80.0	70.0	26.7	
75	80.0	70.0	30.0	80.0	70.0	26.7	
100	40.0	70.0	30.0	40.0	70.0	26.7	
120	40.0	70.0	30.0	40.0	70.0	18.3	
150		70.0	30.0		70.0	18.3	
200		28.3	30.0		17.5	18.3	
300			26.7			18.3	
320			25.4			17.0	
400			20.0				

[When installed vertically]

			(kg)		
	Acceleration/deceleration (G)				
		0.3			
Speed	Scre	ew lead (r	mm)		
(mm/s)	5 10 20				
6	43.3				
12	43.3	28.3			
25	43.3	28.3	3.3		
50	43.3	28.3	3.3		
75	15.0	12.5	3.3		
100	15.0	12.5	3.3		
120	5.3	10.0	3.3		
150		10.0	3.3		
160		8.3	3.3		
200		1.7	3.3		
280			3.3		

Pressing force



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

Refer to page 28 for actuator dimensions. Refer to page 88 for dimensions with fittings.



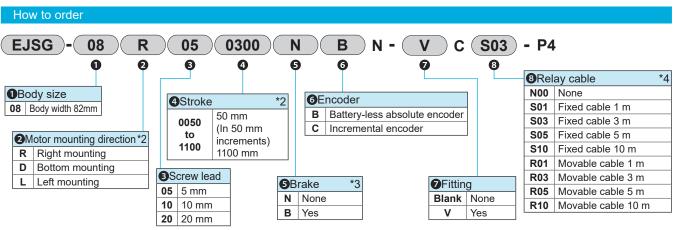
Electric actuator Slider Compatible with rechargeable battery manufacturing processes

EJSG-08*-P4

Motor side mounting (left, right, bottom)

☐56 Stepping motor





- *1 Select the controller from page 117.
- *2 When the motor mounting direction "D" is selected, the stroke is selected from "0250 (250 mm)" to "1100 (1100 mm)".
- *3 When using vertically, select "Yes".
- *4 Refer to page 128 for relay cable dimensions.

Supported controllers			ECG-A		
Motor				☐56 Stepping motor	
Encoder type			Battery-less absolute encoder Incremental encoder		
Drive method				Ball screw ø15	
Stroke		mm		50 to 1100	
Screw lead mm			5	10	20
Max. workload	d kg	Horizontal	80.0	70.0	30.0
*1		Vertical	33.3	18.3	3.3
Operation spe	eed rar	nge *2mm/s	6 to 100	12 to 200	25 to 320
Max. accelera	ation/	Horizontal	0.7	0.7	0.7
deceleration (G	Vertical	0.3	0.3	0.3
Maximum pushing force N			965	482	241
Pressing operation speed rangemm/s			5 to 20	5 to 20	5 to 20
Repeatability		mm	±0.01		
Lost motion		mm	0.1 or less		
Static allowab	ole moi	ment N·m	MP:203 MY:203 MR:336		
Motor power s	supply	voltage	24 VDC ±10%		
Motor section max.	. instanta	neous currentA	4.0		
Mo	odel, pow	er supply voltage	Non-excitation operation, 24 VDC ±10%		
Brake Po	ower co	nsumptionW		7.2	
Н	lolding	force N	768	384	192
Insulation resi	istance	е		10 MΩ, 500 VDC	
Withstand vol	ltage			500 VAC for 1 minute	
Operating aml	bient to	emperature	10 to 40 °C (no freezing)		
Storage ambie	ent ter	nperature	-10 to 50°C (no freezing)		
Atmosphere			No corro	sive gas, explosive ga	s, or dust

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 87 for details.

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

(mm/s)

	(' /
Screw lead	Stroke
	50 to 1100
5	100
10	200
20	320

Speed and load capacity

[When installed horizontally]

(kg)

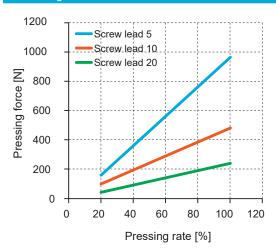
	Acceleration/deceleration (G)					
	0.3			0.7		
Speed			Screw le	ad (mm)		
(mm/s)	5	10	20	5	10	20
6	80.0			80.0		
12	80.0	70.0		80.0	70.0	
25	80.0	70.0	30.0	80.0	70.0	26.7
50	80.0	70.0	30.0	80.0	70.0	26.7
75	68.3	70.0	30.0	68.3	70.0	26.7
100	40.0	70.0	30.0	40.0	70.0	26.7
150		70.0	30.0		30.0	18.3
200		28.3	30.0		17.5	18.3
300			6.7			6.7
320			6.0			6.0

[When installed vertically]

(kg)

	Acceleration/deceleration (G)						
	0.3						
Speed	Scre	ew lead (r	mm)				
(mm/s)	5	10	20				
6	33.3						
12	33.3	18.3					
25	33.3	18.3	3.3				
50	25.0	18.3	3.3				
75	15.0	12.5	3.3				
100	12.5	12.5	3.3				
150		8.3	3.3				
160		7.0	3.3				
200			3.3				
280			3.3				

Pressing force

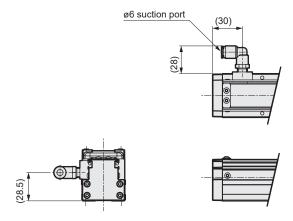


^{*}The above pressing force is a reference value. Variation may occur according to conditions such as pressing speed.

Dimensions

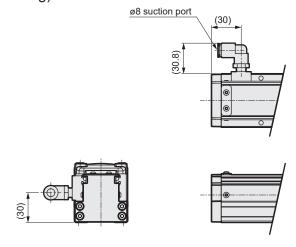
Refer to pages 32 to 34 for actuator dimensions. Refer to page 88 for dimensions with fittings.

EJSG-04-V-P4 (with fitting)



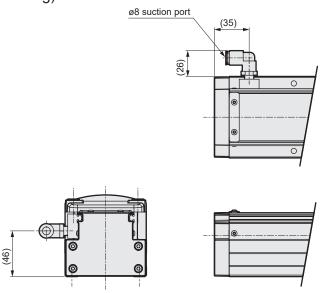
^{*} Refer to pages 8, 12 to 14 for actuator dimensions.

● EJSG-05-V-P4 (with fitting)



^{*} Refer to pages 18, 22 to 24 for actuator dimensions.

■ EJSG-08-V-P4 (with fitting)



 $^{^{\}ast}$ Refer to pages 28, 32 to 34 for actuator dimensions.

EJSG

EJSG-0

EJSG-C

EJSG-FP1

Electric actuator Motor specification

Slider type Supports food manufacturing processes



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Product introduction Series variation 92 Specifications/How to order/Dimensions • EJSG-04*-FP1 • EJSG-05*-FP1 • EJSG-08*-FP1 102 Model selection

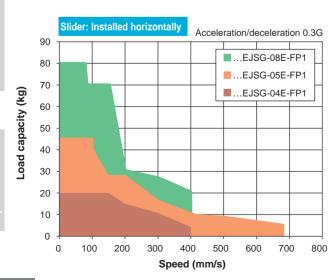
Technical data

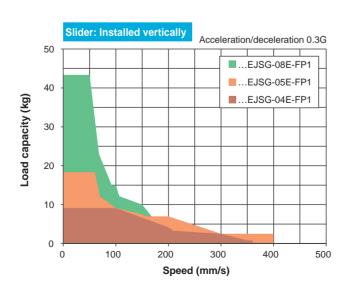
110

Series variation

<u>e</u>			Motor	Motor	Body	Screw	capaci	ity (kg)	Max. Pressing	Stroke (mm) and max. speed (mm/s)	Listed
Controll	Actuato	r Model No.	Size	Direction	width (mm)	(mm)	Horizontal	Vertical	force (N)	50 mm 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000 105	50 1100 page
		EJSG-04E06-FP1		ight		6	20.0	9.2	155	260 mm/s 250 220 190 170	
	Car	EJSG-04E12-FP1		Straight		12	15.0	3.3	77	400 390 340	94
PECTO	5	EJSG-04R/D/L06-FP1	- □ 35	Left/Right/ Bottom	44	6	20.0	9.2	155	200 190 170	96
F= [1	EJSG-04R/D/L12-FP1		Left/F Bot		12	11.7	3.3	77	320	90
- 1		EJSG-05E05-FP1		±		5	40.0	14.0	220	230 225 200 175 150	
1	(3.5)	EJSG-05E10-FP1		Straight		10	27.5	7.0	110	400 355 315	98
		EJSG-05E20-FP1			F.4	20	18.3	2.5	55	680	
	Sale Sale	EJSG-05R/D/L05-FP1	- □ 42		54	5	40.0	10.0	220	200 175 150	
4		EJSG-05R/D/L10-FP1		Left/Right/ Bottom		10	27.5	3.3	110	320	100
		EJSG-05R/D/L20-FP1		Le		20	18.3	0.8	55	560	
		EJSG-08E05-FP1		#		5	80.0	43.3	965	120	110
	(100)	EJSG-08E10-FP1		Straight		10	70.0	28.3	482	200	102
m F		EJSG-08E20-FP1			00	20	30.0	3.3	241	400	
	1	EJSG-08R/D/L05-FP1	- □ 56		82	5	80.0	33.3	965	100	
ECG Series	1	EJSG-08R/D/L10-FP1		Left/Right/ Bottom		10	70.0	18.3	482	200	104
		EJSG-08R/D/L20-FP1		_ E		20	30.0	3.3	241	320	

^{*} This data is obtained at an acceleration/deceleration of 0.3G.





^{*} The load capacity when wall mounted is the same as for horizontal installation.



Electric actuator Slider Supports food manufacturing processes

EJSG-04E-FP1

Straight motor mounting

☐35 Stepping motor



How to order N - C (S03) - FP1 **EJSG** 04 06 0300 6 0 6 0 **⊘**Relay cable *3 ●Body size N00 None **6**Encoder 4Stroke Body width Fixed cable 1 m B Battery-less absolute encoder 50 mm 44mm 0050 **S03** Fixed cable 3 m C Incremental encoder (In 50 mm S05 Fixed cable 5 m to 2 Motor mounting direction increments) 0800 S10 Fixed cable 10 m E Straight mounting 800 mm R01 Movable cable 1 m R03 | Movable cable 3 m **6**Brake *2 Screw lead R05 | Movable cable 5 m **06** 6 mm N None R10 | Movable cable 10 m **12** 12 mm **B** Yes

- *1 Select the controller from page 117.
- *2 When using vertically, select "Yes".
- *3 Refer to page 128 for relay cable dimensions.

Supported controllers	ECG-A			
Motor	☐35 Stepping motor			
Encoder type	Battery-less absolute encoder Incremental encoder			
Drive method	Ball scre	ew ø10		
Stroke mm	50 to	800		
Screw lead mm	6	12		
Max. workload kg Horizontal	20.0	15.0		
*1 Vertical	9.2	3.3		
Operation speed range *2mm/s	7 to 260	15 to 400		
Max. acceleration/ Horizontal	0.7	0.7		
deceleration G Vertical	0.3	0.3		
Maximum pushing force N	155	77		
Pressing operation speed rangemm/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 currentA	2.4			
Model, power supply voltage	Non-excitation operation, 24 VDC ±10%			
Brake Power consumptionW	6.	1		
Holding force N	140	70		
Insulation resistance	10 MΩ, 5	00 VDC		
Withstand voltage	500 VAC fo	r 1 minute		
Operating ambient temperature, humidity	10 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, ex	plosive gas, or dust		

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 95 for details.

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

EJSG-04E-FP1

Specifications

Stroke and max. speed

(mm/s)

Screw lead	Stroke						
Screw lead	50 to 600	650	700	750	800		
6	260	250	220	190	170		
12	400	400	400	390	340		

Speed and load capacity

[When installed horizontally]

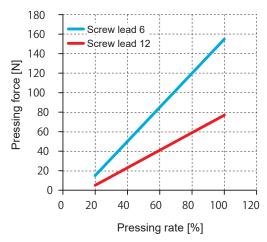
(kg) Acceleration/deceleration (G) 0.3 0.7 Speed Screw lead (mm) (mm/s) 12 6 12 6 7 20.0 20.0 15 20.0 15.0 20.0 11.0 50 20.0 15.0 20.0 11.0 20.0 100 20.0 15.0 11.0 20.0 12.5 10.8 150 15.0 200 15.0 15.0 12.5 10.8 250 11.7 10.8 11.7 8.3 260 10.9 10.9 8.3 10.8 300 10.8 8.3 320 7.5 9.5 400

[When installed vertically]

(kg)

	Acceleration/d	eceleration (G)
	0.	.3
Speed	Screw le	ad (mm)
(mm/s)	6	12
7	9.2	
15	9.2	3.3
50	9.2	3.3
100	9.2	3.3
150	6.7	3.3
180	5.2	3.3
200	4.2	3.3
220	2.2	2.7
280		2.7
300		2.5
350		0.8
360		0.8

Pressing force



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

Dimensions

Refer to page 8.



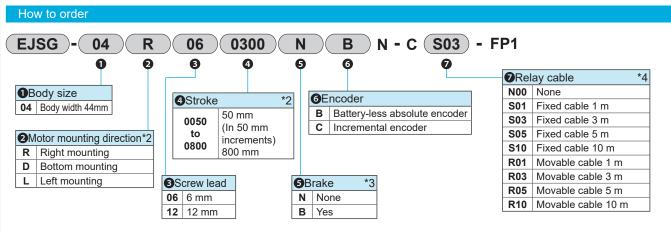
Electric actuator Slider Supports food manufacturing processes

EJSG-04*-FP1

Motor side mounting (left, right, bottom)

☐35 stepper motor





- *1 Select the controller from page 117.
- *2 When the motor mounting direction "D" is selected, the stroke is selected from "0250 (250 mm)" to "0800 (800 mm)".
- *3 When using vertically, select "Yes".
- *4 Refer to page 128 for relay cable dimensions.

Supported contr	rollers	ECG-A			
Motor		⊒35 Stepp	ping motor		
Encoder type		Battery-less absolute encoder Incremental encoder			
Drive method		Ball scr	ew ø10		
Stroke	mm	50 to	800		
Screw lead	mm	6	12		
Max. workload I	kg Horizontal	20.0	11.7		
*1	Vertical	9.2	3.3		
Operation speed	d range *2mm/s	7 to 200	15 to 320		
Max. acceleration	on/ Horizontal	0.7	0.7		
deceleration G	Vertical	0.3	0.3		
Maximum pushi	ing force N	155	77		
Pressing operation	speed rangemm/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 su	pply voltage	24 VDC ±10%			
Motor section max. in:	stantaneous currentA	2.4			
Mode	el, power supply voltage	Non-excitation operation, 24 VDC ±10%			
Brake Pow	er consumptionW	6.	1		
Hol	ding force N	140	70		
Insulation resist	tance	10 MΩ, 5	500 VDC		
Withstand volta	ge	500 VAC fo	or 1 minute		
Operating ambitemperature, hu		10 to 40 °C (no freezing) 35 to 80% RH (no condensation)			
Storage ambier humidity	nt temperature,	-10 to 50°C (no freezing) 35 to 80% RH (no condensation)			
Atmosphere		No corrosive gas, explosive gas, or dust			

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 97 for details.

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

(mm/s)

Screw lead	Stroke				
	50 to 700	750	800		
6	200	190	170		
12	320	320	320		

Speed and load capacity

[When installed horizontally]

(kg)

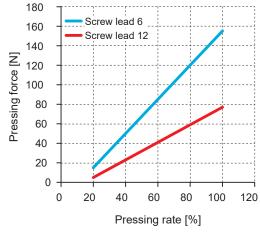
	Acceleration/deceleration (G)					
	0	.3	0.7			
Speed		Screw le	ad (mm)	ad (mm)		
(mm/s)	6	12	6	12		
7	20.0		20.0			
15	20.0	11.7	20.0	10.0		
50	20.0	11.7	20.0	10.0		
100	20.0	11.7	20.0	10.0		
150	13.3	11.7	11.7	10.0		
200	13.3	11.7	10.0	10.0		
300		8.3		8.3		
320		7.3		7.3		

[When installed vertically]

(kg)

	Acceleration/deceleration (G)				
	0.3				
Speed	Screw le	ad (mm)			
(mm/s)	6	12			
7	9.2				
15	9.2	3.3			
50	9.2	3.3			
100	6.7	3.3			
150	3.3	3.3			
180	2.8	3.3			
200		3.3			
280		2.0			

Pressing force



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

Dimensions

Refer to pages 12 to 14.



Electric actuator Slider Supports food manufacturing processes

EJSG-05E-FP1

Straight motor mounting

☐42 Stepper motor



How to order N - C (S03) - FP1 **EJSG** 05 Ε 05 0300 6 0 6 0 **⊘**Relay cable *3 Body size N00 None **6**Encoder 4Stroke 05 Body width 54mm S01 Fixed cable 1 m B Battery-less absolute encoder 50 mm 0050 **S03** Fixed cable 3 m C Incremental encoder (In 50 mm 2 Motor mounting direction S05 Fixed cable 5 m to increments) 0800 **E** Straight mounting S10 Fixed cable 10 m 800 mm R01 Movable cable 1 m R03 | Movable cable 3 m **6**Brake *2 3Screw lead **R05** | Movable cable 5 m **05** 5 mm N None R10 | Movable cable 10 m **10** 10 mm **B** Yes **20** 20 mm

- *1 Select the controller from page 117.
- *2 When using vertically, select "Yes".
- *3 Refer to page 128 for relay cable dimensions.

Supported controllers		ECG-A			
Motor		☐42 Stepper motor			
Encoder type	Battery-less absolute encoder Incremental encoder				
Drive method		Ball screw ø12			
Stroke mm		50 to 800			
Screw lead mm	5	10	20		
Max. workload kg Horizontal	40.0	27.5	18.3		
*1 Vertical	14.0	7.0	2.5		
Operation speed range *2mm/s	6 to 230	12 to 400	25 to 680		
Max. acceleration/ Horizontal	0.7	0.7	0.7		
deceleration G Vertical	0.3	0.3	0.3		
Maximum pushing force N	220	110	55		
Pressing operation speed rangemm/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:103 MY:103 MR:144				
Motor power supply voltage	24 VDC ±10%				
Motor section max. instantaneous currentA	2.7				
Model, power supply voltage	Non-excitation operation, 24 VDC ±10%				
Brake Power consumption W		6.1			
Holding force N	168	84	42		
Insulation resistance		10 MΩ, 500 VDC			
Withstand voltage		500 VAC for 1 minute			
Operating ambient temperature, humidity		10 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 corro	sive gas, explosive ga	s, or dust		

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 99 for details.

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



(mm/s)

Screw lead	Stroke						
	50 to 600	650	700	750	800		
5	230	225	200	175	150		
10	400	400	400	355	315		
20	680	680	680	680	630		

Speed and load capacity

[When installed horizontally]

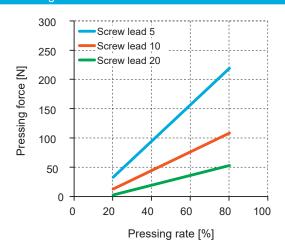
_									
		(kg)							
		Acceleration/deceleration (G)							
		0.3			0.7				
Speed			Screw le	ad (mm)					
(mm/s)	5	10	20	5	10	20			
6	40.0			40.0					
12	40.0	27.5		40.0	27.5				
25	40.0	27.5	18.3	40.0	27.5	8.3			
50	40.0	27.5	18.3	40.0	27.5	8.3			
100	40.0	27.5	18.3	40.0	27.5	8.3			
150	26.7	27.5	10.0	26.7	27.5	6.7			
200	26.7	27.5	10.0	26.7	27.5	6.7			
230	26.7	15.8	10.0	26.7	12.5	6.7			
300		15.8	10.0		12.5	6.7			
320		14.6	8.3		11.8	5.0			
400		10.0	8.3		9.2	5.0			
500			8.3			5.0			
560			7.1			4.3			
680			4.6			2.8			

[When installed vertically]

(kg)

	Acceleration/deceleration (G)					
		0.3				
Speed	Scre	ew lead (r	mm)			
(mm/s)	5 10 20					
6	14.0					
12	14.0	7.0				
25	14.0	7.0	2.5			
50	14.0 7.0	2.5				
100	9.2	7.0	2.5			
150	7.5	7.0	2.5			
170	6.2	7.0	2.5			
200	4.2	7.0	2.5			
260		4.3	2.5			
300		2.5				
325		2.1	2.5			
340		2.1	2.5			
400			2.5			

Pressing force



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

Dimensions

Refer to page 18.

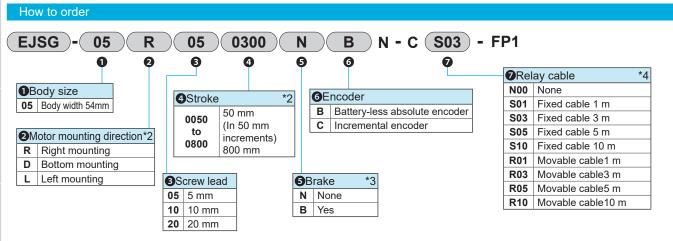


EJSG-05*-FP1

Motor side mounting (left, right, bottom)

☐42 Stepper motor





- *1 Select the controller from page 117.
- *2 When the motor mounting direction "D" is selected, the stroke is selected from "0250 (250 mm)" to "0800 (800 mm)".
- *3 When using vertically, select "Yes"
- *4 Refer to page 128 for relay cable dimensions.

Supported controllers	ECG-A			
Motor	☐42 Stepper motor			
Encoder type	Battery-less absolute encoder Incremental encoder			
Drive method		Ball screw ø12		
Stroke mm		50 to 800		
Screw lead mm	5	10	20	
Max. workload kg Horizontal	40.0	27.5	18.3	
*1 Vertical	10.0	3.3	0.8	
Operation speed range *2mm/s	6 to 200	12 to 320	25 to 560	
Max. acceleration/ Horizontal	0.7	0.7	0.7	
deceleration G Vertical	0.3	0.3	0.3	
Maximum pushing force N	220	110	55	
Pressing operation speed rangemm/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:103 MY:103 MR:144			
Motor power supply voltage	24 VDC ±10%			
Motor section max. instantaneous currentA	2.7			
Model, power supply voltage	Non-exci	itation operation, 24 VI	OC ±10%	
Brake Power consumptionW		6.1		
Holding force N	168	84	42	
Insulation resistance		10 MΩ, 500 VDC		
Withstand voltage		500 VAC for 1 minute		
Operating ambient temperature, humidity	10 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 corro	No corrosive gas, explosive gas, or dust		

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 101 for details.

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

(mm/s)

Screw lead	Stroke				
Screw lead	50 to 700	750	800		
5	200	175	150		
10	320	320	315		
20	560	560	560		

Speed and load capacity

[When installed horizontally]

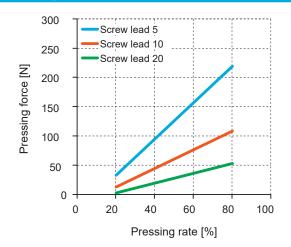
		(H				
		Accel	eration/d	eceleratio	n (G)	
		0.3			0.7	
Speed			Screw le	ad (mm)		
(mm/s)	5	10	20	5	10	20
6	40.0			40.0		
12	40.0	27.5		40.0	27.5	
25	40.0	27.5	18.3	40.0	27.5	7.5
50	40.0	27.5	18.3	40.0	27.5	7.5
100	40.0	27.5	18.3	40.0	27.5	7.5
150	26.7	23.3	10.0	26.7	20.0	5.0
200	26.7	23.3	10.0	26.7	20.0	5.0
300		11.7	10.0		11.7	5.0
320		10.0	6.7		10.0	4.2
500			6.7			4.2
560			5.7			3.5

[When installed vertically]

(kg)

	Acceleration/deceleration (G)			
		0.3		
Speed	Scre	ew lead (r	mm)	
(mm/s)	5	10	20	
6	10.0			
12	10.0	3.3		
25	10.0	3.3	0.8	
50	10.0	3.3	0.8	
100	8.3	3.3	0.8	
150	6.7	2.1	0.8	
170	5.0	2.1	0.8	
200		2.1	0.8	
260		1.6	0.8	
400			0.8	

Pressing force



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

Dimensions

Refer to pages 22 to 24.



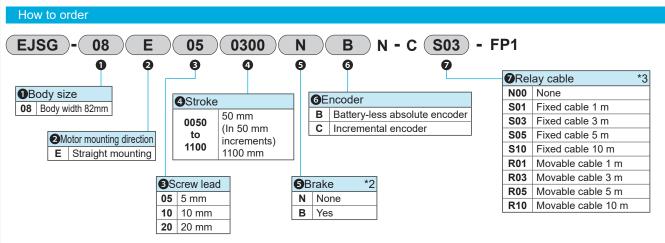
Electric actuator Slider Supports food manufacturing processes

EJSG-08E-FP1

Straight motor mounting

☐56 Stepping motor





- *1 Select the controller from page 117.
- *2 When using vertically, select "Yes".
- *3 Refer to page 128 for relay cable dimensions.

Supported controllers		ECG-A			
Motor		☐56 Stepping motor			
Encoder type		Battery-less absolute encoder Incremental encoder			
Drive method			Ball screw ø15		
Stroke	mm		50 to 1100		
Screw lead	mm	5	10	20	
Max. workload kg Ho	rizontal	80.0	70.0	30.0	
	Vertical	43.3	28.3	3.3	
Operation speed range	*2mm/s	6 to 120	12 to 200	25 to 400	
Max. acceleration/ Ho	rizontal	0.7	0.7	0.7	
deceleration G	Vertical	0.3	0.3	0.3	
Maximum pushing force	e N	965	482	241	
Pressing operation speed rai	ngemm/s	5 to 20	5 to 20	5 to 20	
Repeatability	mm	±0.01			
Lost motion	mm	0.1 or less			
Static allowable momen	ıt N·m	MP:203 MY:203 MR:336			
Motor power supply vol	tage	24 VDC ±10%			
Motor section max. instantaneou	s currentA	4.0			
Model, power sup	ply voltage	Non-exc	itation operation, 24 VI	OC ±10%	
Brake Power consul	mption W		7.2		
Holding for	ce N	768	384	192	
Insulation resistance		10 MΩ, 500 VDC			
Withstand voltage			500 VAC for 1 minute		
Operating ambient temperature, humidity		10 to 40 °C (no freezing) 35 to 80% RH (no condensation)			
Storage ambient tempe humidity	rature,	-10 to 50°C (no freezing) 35 to 80% RH (no condensation)			
Atmosphere		No corro	sive gas, explosive ga	s, or dust	

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 103 for details.

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

(mm/s)

(11111/6)					
Screw lead	Stroke	;			
Screw lead	50 to 1050	1100			
5	120	110			
10	200	200			
20	400	400			

Speed and load capacity

[When installed horizontally]

(kg)

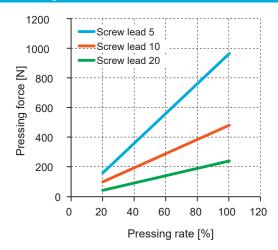
		Accel	eration/de	eceleratio	n (G)	
		0.3			0.7	
Speed			Screw le	ad (mm)		
(mm/s)	5	10	20	5	10	20
6	80.0			80.0		
12	80.0	70.0		80.0	70.0	
25	80.0	70.0	30.0	80.0	70.0	26.7
50	80.0	70.0	30.0	80.0	70.0	26.7
75	80.0	70.0	30.0	80.0	70.0	26.7
100	40.0	70.0	30.0	40.0	70.0	26.7
120	40.0	70.0	30.0	40.0	70.0	18.3
150		70.0	30.0		70.0	18.3
200		28.3	30.0		17.5	18.3
300			26.7			18.3
320			25.4			17.0
400			20.0			
-100			20.0			

[When installed vertically]

(kg)

	Acceleration/deceleration (G)			
	0.3			
Speed	Scre	ew lead (r	mm)	
(mm/s)	5	10	20	
6	43.3			
12	43.3	28.3		
25	43.3	28.3	3.3	
50	43.3	28.3	3.3	
75	15.0	12.5	3.3	
100	15.0	12.5	3.3	
120	5.3	10.0	3.3	
150		10.0	3.3	
160		8.3	3.3	
200		1.7	3.3	
280			3.3	

Pressing force



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

Dimensions

Refer to page 28.



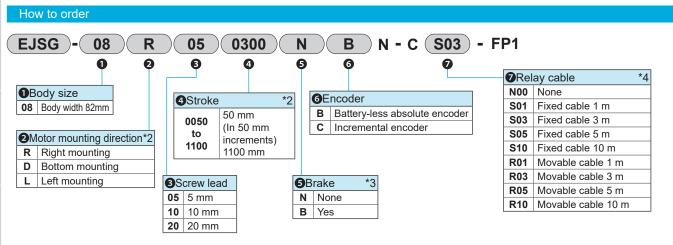
Electric actuator Slider Supports food manufacturing processes

EJSG-08*-FP1

Motor side mounting (left, right, bottom)

☐56 Stepping motor





- *1 Select the controller from page 117.
- $^{\star}2$ When the motor mounting direction "D" is selected, the stroke is selected from "0250 (250 mm)" to "1100 (1100 mm)".
- *3 When using vertically, select "Yes".
- *4 Refer to page 128 for relay cable dimensions.

	ECG-A				
Motor	☐56 Stepping motor				
Encoder type	Battery-less absolute encoder Incremental encoder				
Drive method		Ball screw ø15			
Stroke mm		50 to 1100			
Screw lead mm	5	10	20		
Max. workload kg Horizontal	80.0	70.0	30.0		
*1 Vertical	33.3	18.3	3.3		
Operation speed range *2mm/s	6 to 100	12 to 200	25 to 320		
Max. acceleration/ Horizontal	0.7	0.7	0.7		
deceleration G Vertical	0.3	0.3	0.3		
Maximum pushing force N	965 482	482	241		
Pressing operation speed rangemm/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 currentA	4.0				
Model, power supply voltage	Non-exc	itation operation, 24 VI	DC ±10%		
Brake Power consumptionW		7.2			
Holding force N	768	384	192		
Insulation resistance		10 MΩ, 500 VDC			
Withstand voltage	500 VAC for 1 minute				
Operating ambient temperature, humidity		0 to 40 °C (no freezing 80% RH (no condens			
Storage ambient temperature, humidity	-10 to 50°C (no freezing) 35 to 80% RH (no condensation)				
Atmosphere	No corro	sive gas, explosive ga	s, or dust		

^{*1} Load capacity varies according to acceleration/deceleration and speed. Refer to page 105 for details.

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



(mm/s)

	(,0)
Screw lead	Stroke
Screw lead	50 to 1100
5	100
10	200
20	320

Speed and load capacity

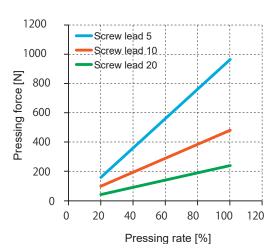
[When installed horizontally]

							(kg)
			Acceleration/deceleration (G)				
			0.3			0.7	
	Speed			Screw le	ad (mm)		
	(mm/s)	5	10	20	5	10	20
	6	80.0			80.0		
	12	80.0	70.0		80.0	70.0	
	25	80.0	70.0	30.0	80.0	70.0	26.7
	50	80.0	70.0	30.0	80.0	70.0	26.7
	75	68.3	70.0	30.0	68.3	70.0	26.7
	100	40.0	70.0	30.0	40.0	70.0	26.7
	150		70.0	30.0		30.0	18.3
	200 28.3		30.0		17.5	18.3	
300	300			6.7			6.7
	320			6.0			6.0

[When installed vertically]

			(kg)		
	Acceleration/deceleration (G)				
	0.3				
Speed	Screw lead (mm)				
(mm/s)	5	10	20		
6	33.3				
12	33.3	18.3			
25	33.3	18.3	3.3		
50	25.0	18.3	3.3		
75	15.0	12.5	3.3		
100	12.5	12.5	3.3		
150		8.3	3.3		
160		7.0	3.3		
200			3.3		
280			3.3		

Pressing force



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

Dimensions

Refer to pages 32 to 34.

Model selection/Technical data

CONTENTS	
Model selection	108
Technical data	110
Maintenance parts	114

STEP 1

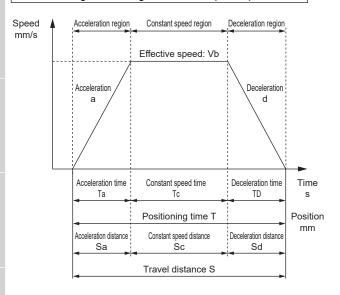
Confirming load capacity

Load capacity varies with mounting orientation, screw lead, transport speed and acceleration/deceleration. Refer to the Series Variation (pages 2, 38, 56, 74 and 92), the specification table for each model and the Table of Load Capacity by Speed and Acceleration/Deceleration to select the size and screw lead.

Confirming positioning time STEP 2

Calculate the positioning time with the selected product according to the following example and confirm that the required tact is achievable.

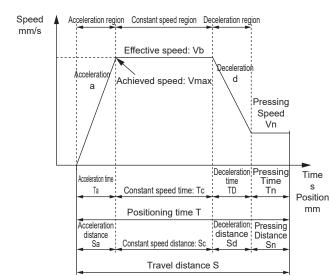
Positioning time for general transport operation



	Description	Code	Unit	Remarks
Set value	Set speed	V	mm/s	
	Set acceleration	а	mm/s ²	
	Set deceleration	d	mm/s ²	
	Travel distance	S	mm	
Calculated value	Achieved speed	Vmax	mm/s	=[2×a×d×S/(a+d)] 1/2
	Effective speed	Vb	mm/s	Smaller of V and Vmax
	Acceleration time	Та	S	=Vb/a
	Deceleration time	TD	S	=Vb/d
	Constant speed time	Tc	S	=Sc/Vb
	Acceleration distance	Sa	mm	=(a×Ta ²)/2
	Deceleration distance	Sd	mm	=(d×Td ²)/2
	Constant speed distance	Sc	mm	=S-(Sa+Sd)
	Positioning time	Т	s	=Ta+Tc+Td

- * Do not use at speeds that exceed the specifications.
- * Depending on acceleration/deceleration and stroke, the trapezoid speed waveform may not be formed (the set speed may not be achieved). In this case, select the effective speed (Vb) from the set speed (V) and the achieved speed (Vmax), whichever is smaller.
- * Acceleration/deceleration differs depending on the product and working conditions. Refer to the specification page of each model for details
- * Though the stabilization time depends on working conditions, it may take as long as 0.2s.
- 1G≈9 8m/s²

Positioning time for pressing operation



	Description	Code	Unit	Remarks	
Set value	Set speed	V	mm/s		
	Set acceleration	а	mm/s ²		
	Set deceleration	d	mm/s ²		
	Travel distance	S	mm		
	Pressing speed	Vn	mm/s		
	Pressing distance	Sn	mm		
Calculated value	Achieved speed	Vmax	mm/s	=[2×a×d×(S-Sn+Vn²/2/d)/(a+d)] 1/2	
	Effective speed	Vb	mm/s	The lesser value of V and Vmax	
	Acceleration time	Ta	s	=Vb/a	
	Deceleration time	TD	s	=(Vb-Vn)/d	
	Constant speed time	Tc	s	=Sc/Vb	
	Pressing time	Tn	s	=Sn/Vn	
	Acceleration distance	Sa	mm	=(a×Ta ²)/2	
	Deceleration distance	Sd	mm	=((Vb+Vn)×Td)/2	
	Constant speed distance	Sc	mm	=S-(Sa+Sd+Sn)	
	Positioning time	Т	s	=Ta+Tc+Td+Tn	

- * Do not use at speeds that exceed the specifications.
- * Pressing speed differs depending on the product.
- * Depending on acceleration/deceleration and stroke, the trapezoid speed waveform may not be formed (the set speed may not be achieved). In this case, select the effective speed (Vb) from the set speed (V) and the achieved speed (Vmax), whichever is smaller.
- * Acceleration/deceleration differs depending on the product and working conditions. Refer to the specification page of each model for details.
- Though the stabilization time depends on working conditions, it may take as long as 0.2s.
- * 1G≈9.8m/s².

EJSG series

Model selection

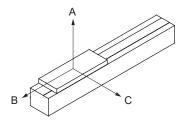
STEP 3 Checking allowable overhang length

Make sure that the load overhang length during operation is within the allowable range (pages 110 to 112). Contact your CKD Sales representative for selection details.

CKD

Allowable overhang length (EJSG Series)

[When installed horizontally]



[Allowable overhang length]

●EJSG-04*

Motor	Acceleration/	Screw	Load	Ove	rhang	mm
mounted	deceleration G	lead	weight kg	Α	В	С
			6	800	135	190
		6	11	595	70	95
	0.3		16	375	40	60
	0.3	12	4	800	190	255
			9	490	80	105
Straight / side/			13	320	50	65
bottom		6	6	800	145	205
			11	415	75	105
			16	270	45	65
	0.7	12	4	800	200	270
			7	460	110	145
			11	275	65	85

●EJSG-05*

Motor	Acceleration/	Screw	Load	Ove	rhang	mm
mounted	deceleration G	lead	weight kg	А	В	С
			13	820	95	125
		5	27	350	40	50
			40	210	20	30
			12	765	100	130
	0.3	10	23	355	45	60
			35	210	25	35
		20	5	1000	235	285
			11	520	100	120
Straight / side/			16	330	65	75
bottom		5	13	1000	120	170
			27	505	50	70
			40	320	30	45
			14	1000	110	155
	0.7	10	21	665	70	95
			31	430	45	60
			5	1000	260	330
		20	11	460	110	140
			16	295	70	90

●EJSG-08*

Motor	Acceleration/	Screw	Load	Ove	erhang	mm
mounted	deceleration G	lead	weight kg	Α	В	С
			25	1000	185	305
		5	50	1000	85	140
			80	740	45	75
			25	1000	165	260
	0.3	10	45	875	85	135
			70	525	50	75
		20	14	1000	305	490
			29	1000	140	220
Straight / side/			43	920	90	140
bottom		5	25	1000	195	315
			50	850	90	145
			80	505	50	80
			25	1000	195	315
	0.7	10	45	955	100	165
			70	585	60	95
			10	1000	430	680
		20	20	1000	205	325
			30	760	135	210

^{*} Values are when the actuator operating life is 5,000km.

* The overhang direction is for a single-direction load.

* Dimensions A, B, and C are measured from the center of the table top.

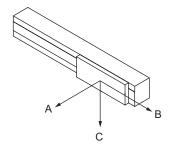
^{*} Values are at maximum speed given stroke of 350 mm and maximum load capacity.

^{*} Values may vary according to motor mounting direction and power supply voltage. Contact CKD for details.

^{*} For acceleration/deceleration and load capacity, refer to the Load Capacity by Speed and Acceleration/Deceleration table (specification page for each model).

Allowable overhang length(EJSGSeries)

[When wall-mounted]



[Allowable overhang length]

●EJSG-04*

Motor	Acceleration/	Screw	Load	Ove	erhang	mm
mounted	deceleration G	lead	weight kg	Α	В	С
			6	150	105	800
		6	11	60	40	490
	0.3		16	20	15	240
	0.3	12	4	220	165	800
			9	70	50	390
Straight / side/			13	30	25	210
bottom		6	6	165	115	765
			11	65	45	365
			16	30	20	205
	0.7		4	235	175	800
		12	7	110	80	420
			11	50	40	225

●EJSG-05*

Motor	Acceleration/	Screw		Overhang mm		
mounted	deceleration G	lead	weight kg	Α	В	С
			7	205	150	1000
		5	13	80	60	685
			20	30	20	335
			7	195	145	1000
	0.3	10	13	75	55	575
			20	25	20	265
		20	5	245	200	1000
			11	80	65	400
Straight / side/			16	35	25	200
bottom		5	10	175	125	1000
			20	55	40	620
			30	15	10	305
			14	105	75	965
	0.7	10	21	50	35	580
			31	15	10	280
			5	290	225	1000
		20	11	95	75	405
			16	45	35	230

●EJSG-08*

Motor	Acceleration/	Screw	Load	Ove	verhang mm		
mounted	deceleration G	lead	weight kg	Α	В	С	
			25	250	155	1000	
		5	50	85	50	1000	
			70	40	20	680	
			25	210	130	1000	
	0.3	10	45	85	50	745	
			70	25	15	345	
		20	15	350	220	1000	
			30	140	90	810	
Straight / side/			43	90	55	790	
bottom		5	25	265	160	1000	
			50	95	55	780	
			80	30	20	390	
			25	265	160	1000	
	0.7	10	45	115	70	890	
			70	45	25	490	
			10	630	400	1000	
		20	20	280	175	1000	
			30	160	100	705	

^{*} Values are when the actuator operating life is 5,000km.

^{*} The overhang direction is for a single-direction load.

^{*} Dimensions A, B, and C are measured from the center of the table top.

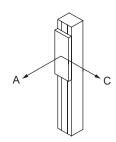
^{*} EJSG Series stroke: 350mm, max. speed under max. load capacity.

^{*} Values may vary according to motor mounting direction and power supply voltage. Contact CKD for details.

^{*} For acceleration/deceleration and load capacity, refer to the Load Capacity by Speed and Acceleration/Deceleration table (specification page for each model).

Allowable overhang length (EJSG Series)

[When installed vertically]



[Allowable overhang length]

●EJSG-04*

Motor	Acceleration/	Screw lead	Load	Overha	ng mm
mounted	deceleration G		weight kg	Α	С
	0.3	6	3	315	315
			5	175	175
Straight / side/			8	90	90
bottom		12	1	755	725
			2	355	340
			3	225	215

●EJSG-05*

EJSG-05						
Motor	Acceleration/	Screw	Load	Overhang mm		
mounted	deceleration G	lead	weight kg	Α	С	
			6	265	265	
		5	11	120	120	
	0.3		16	70	70	
Straight		10	3	525	525	
/ side/			5	295	295	
bottom			8	170	170	
			2	815	810	
		20	3	525	525	
			4.5	340	340	

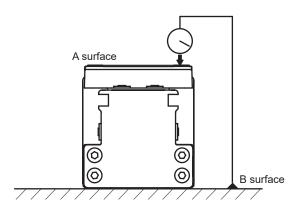
●EJSG-08*

Motor	Acceleration/	Screw	Load	Overha	ing mm
mounted	deceleration G	lead	weight kg	Α	С
			15	325	325
		5	25	175	175
	0.3		40	90	90
Straight		10	6	690	680
/ side/			12	315	315
bottom			18	195	195
		20	3	1000	1000
			7	580	575
			10	390	390

- * Values are when the actuator operating life is 5,000km.
- * The overhang direction is for a single-direction load.
- * Dimensions A and C are measured from the center of the table top.

 * Values are at maximum speed given stroke of 350 mm and maximum load capacity.
- * Values may vary according to motor mounting direction and power supply voltage. Contact CKD for details.
- * For acceleration/deceleration and load capacity, refer to the Load Capacity by Speed and Acceleration/Deceleration table (specification page for each model).

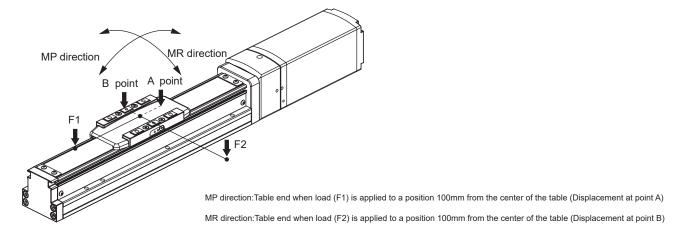
Slider parallelism *Reference value

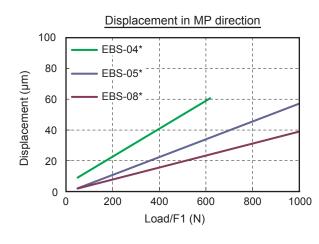


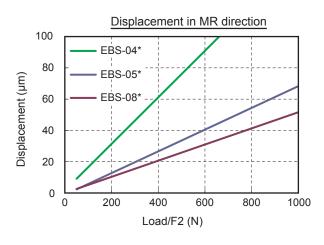
	(mm)
	Parallelism
	A surface against B surface
EJSG-04 Series	
EJSG-05 Series	0.03
EJSG-08 Series	

^{*}Parallelism with the product fixed to a surface plate.

Table deflection *Reference value







■ Maintenance parts (motor unit)

Model No.

Compatibility

	brake Absolute encoder	EJSG-04E-MOTORUNIT-NB	EJSG-04E
		EJSG-04R-MOTORUNIT-NB	EJSG-04R/D/L
	en	EJSG-05E-MOTORUNIT-NB	EJSG-05E
	ute	EJSG-05R-MOTORUNIT-NB	EJSG-05R/D/L
ake	loso	EJSG-08E-MOTORUNIT-NB	EJSG-08E
t br	Ał	EJSG-08R-MOTORUNIT-NB	EJSG-08R/D/L
hou		EJSG-04E-MOTORUNIT-NC	EJSG-04E
Wit	Without brake Incremental Absol	EJSG-04R-MOTORUNIT-NC	EJSG-04R/D/L
		EJSG-05E-MOTORUNIT-NC	EJSG-05E
		EJSG-05R-MOTORUNIT-NC	EJSG-05R/D/L
		EJSG-08E-MOTORUNIT-NC	EJSG-08E
		EJSG-08R-MOTORUNIT-NC	EJSG-08R/D/L
	- io	EJSG-04E-MOTORUNIT-BB	EJSG-04E
	Absolute encoder	EJSG-04R-MOTORUNIT-BB	EJSG-04R/D/L
	en	EJSG-05E-MOTORUNIT-BB	EJSG-05E
	lute	EJSG-05R-MOTORUNIT-BB	EJSG-05R/D/L
é	osc	EJSG-08E-MOTORUNIT-BB	EJSG-08E
brake	A	EJSG-08R-MOTORUNIT-BB	EJSG-08R/D/L
With		EJSG-04E-MOTORUNIT-BC	EJSG-04E
>	_ <u>fa</u>	EJSG-04R-MOTORUNIT-BC	EJSG-04R/D/L
	ncrementa Encoder	EJSG-05E-MOTORUNIT-BC	EJSG-05E
	inc	EJSG-05R-MOTORUNIT-BC	EJSG-05R/D/L
	n n	EJSG-08E-MOTORUNIT-BC	EJSG-08E
		FJSG-08R-MOTORUNIT-BC	EJSG-08R/D/L

Maintenance parts / motor mounting direction: For right/left/downward mounting (timing belt)

Model No.	Compatibility
EJSG-04R-BELT	EJSG-04R/D/L
EJSG-05R-BELT	EJSG-05R/D/L
EJSG-08R-BELT	EJSG-08R/D/L

Maintenance parts

■Maintenance parts (steel belt)

Model No.	
	Compatibility
EJSG-04-STEELBELT (stroke code 4-digit)	EJSG-04 (applicable stroke product)
EJSG-05-STEELBELT (stroke code 4-digit)	EJSG-05 (applicable stroke product)
EJSG-08-STEELBELT (stroke code 4-digit)	EJSG-08 (applicable stroke product)

ECG-A

Controller



CONTENTS

Product introduction	Intro
Specifications/How to order/Dimensions/System configuration	118
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• EtherNet/IP	127
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♠ Safety precautions	132

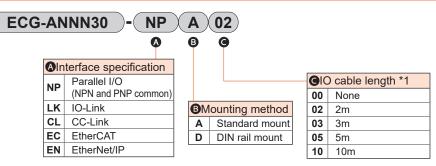


ECG-A Series

Controller for EJSG/EBR-G

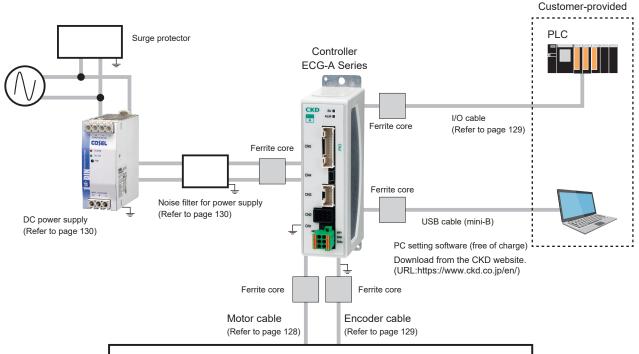


How to order



^{*1} Select "None" unless the interface specification "parallel I/O" is selected.

System configuration





^{*} Refer to the Instruction Manual for details about installing and wiring the noise filter, surge protector, and ferrite core.

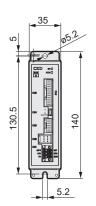
General specifications

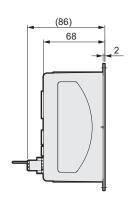
Item		Description			
Applicable actuators		EJSG/EBR-G			
Applicable motor sizes		□35 □42 □56			
Settings tool		PC setting software (S-Tools) Connection cable: USB cable (mini-B)			
External interface	Parallel I/O specification	DC24V±10%, inp	ut/output max. 13 points, cable	length max. 10 m	
External interface	Field network specification	IO-L	ink, CC-Link, EtherCAT, EtherN	let/IP	
Indicator		Communication status	SV lamp, alarm lamp check lamp (according to each	interface specification)	
Dawar aynah yaltara	Control power		24 VDC ±10%		
Power supply voltage	Power supply		24 VDC ±10%		
Current consumption	Control power	0.4A or less			
Current consumption	Power supply	1.7A or less	1.9A or less	2.8A or less	
Motor section max. inst	antaneous current	2.4A or less	2.7A or less	4.0A or less	
Brake current consump	tion		0.4A or less		
Insulation resistance			10 $M\Omega$ and over at 500 VDC		
Withstand voltage			500 VAC for 1 minute		
Operating ambient temp	perature		0 to 40°C (no freezing)		
Operating ambient hum	idity	3	35 to 80% RH (no condensation	1)	
Storage ambient tempe	rature		-10 to 50°C (no freezing)		
Storage ambient humid	ity	3	35 to 80% RH (no condensation	1)	
Working atmosphere		No corrosive gas, explosive gas, or dust			
Degree of protection		IP20			
Moight	Parallel I/O specification	Approx. 180g (s	standard mount), approx. 210g	(DIN rail mount)	
Weight	Field network specification	Approx. 310g (s	standard mount), approx. 340g	(DIN rail mount)	

Dimensions

Standard mount

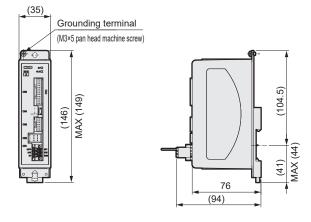
ECG-ANNN30-NPA □ □(Parallel I/O specification)





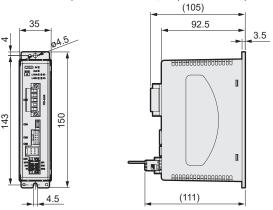
DIN rail mount

ECG-ANNN30-NPD□□(Parallel I/O specification)



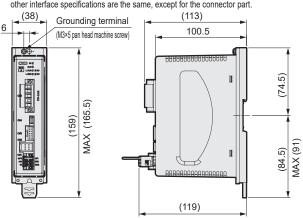
$ECG-ANNN30-\square\square A\square\square(Others)$

*This figure shows the dimensions for CC-Link specifications. The dimensions of other interface specifications are the same, except for the connector part.



ECG-ANNN30- DD (Others)

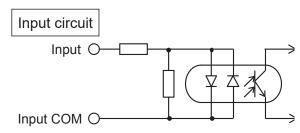
*This figure shows the dimensions for CC-Link specifications. The dimensions of other interface specifications are the same, except for the connector part.



Parallel I/O (PIO) input/output circuit

Input specification

Item	ECG-ANNN30-NP□□
No. of inputs	13 points
Input voltage	24 VDC ±10%
Input current	4 mA/point
Input voltage when ON	19 V or higher
Input current when OFF	0.2 mA or less

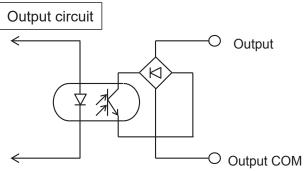


The input is not polarized.

(The input COM can be used with either + or -)

Output specifications

o disposit op comicolitication				
Item	ECG-ANNN30-NP□□			
No. of output points	13 points			
Load voltage	24 VDC ±10%			
Load current	20 mA or less/point			
Internal voltage drop when ON	3 V or less			
Leakage current when OFF	0.1 mA or less			
Output short-circuit protection circuit	Yes			
Connecting load	PLC, etc.			



The output is not polarized.

(The output COM can be used with either + or -)

Parallel I/O (PIO) operation mode

The controller offers five operation modes.

Use the PC setting software to set the appropriate operation mode. The initial setting is 64-point mode.

	Operation mode	Positioning numbers	Overview
	64-point mode	64 points	 JOG travel start input Selectable output: 2 points (Point zone, zone 1, zone 2, travel, warning, soft limit over, soft limit over (-), soft limit over (+)
	Simple 7-point mode	7 points	 JOG travel start input Selectable output: 2 points (Point zone, zone 1, zone 2, travel, warning, soft limit over, soft limit over (-), soft limit over (+)
double 2 position		2 points	 SW output: 2 points Selectable output: 2 points (Point zone, zone 1, zone 2, travel, warning, soft limit over, soft limit over (-), soft limit over (+)
	Solenoid valve mode double 3-position	2 points	• SW output: 2 points • Selectable output: 2 points (Point zone, zone 1, zone 2, travel, warning, soft limit over, soft limit over (-), soft limit over (+)
	Solenoid valve mode single	2 points	• SW output: 2 points • Selectable output: 2 points (Point zone, zone 1, zone 2, travel, warning, soft limit over, soft limit over (-), soft limit over (+)

Parallel I/O (PIO) signal name list

Input signal

Abbreviation	Name	Abbreviation	Name
PST	Point travel start	JOGM	JOG (-) travel start
PSB*	Point number selection bit*	JOGP	JOG (+) travel start
OST	Origin return start	P*ST	Point number * travel start
SVON	Servo ON	V1ST	Solenoid valve travel instruction 1
ALMRST	Alarm reset	V2ST	Solenoid valve travel instruction 2
STOP Stop		VST	Solenoid valve travel instruction

Output signal

Abbreviation	Name	Abbreviation	Name
PEND	Point travel complete	SONS	Servo ON state
PCB*	Point number confirmation bit *	ALM	Alarm
ACB*	Alarm confirmation bit *	WARN	Warning
PZONE	Point zone	READY	Operation preparation complete
MOVE	Moving	P*END	Point number * travel complete
ZONE1	Zone 1	SW1	Switch 1
ZONE2	Zone 2	SW2	Switch 2
OEND	Origin return complete	SLMT	Soft limit exceeded
SLMTM	Soft limit over (-)	SLMTP	Soft limit over (+)

Parallel I/O (PIO) operation mode and signal assignment

The following figure shows signal assignments in each operation mode.

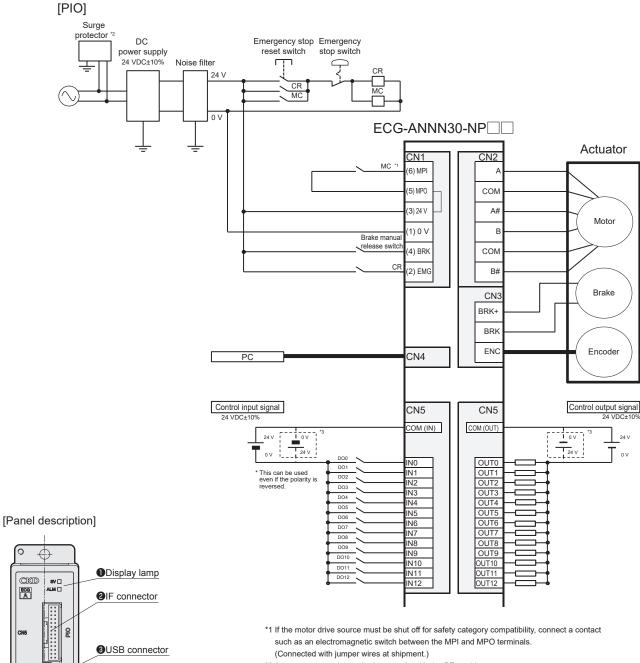
Operation mode		64-point mode	Simple 7-point mode	Solenoid mode Double 2-position	Solenoid mode Double 3-position	Solenoid mode Single type
Positio	oning numbers	64	7	2	2	2
	IN0	PSB0	P1ST	V1ST	V1ST	-
	IN1	PSB1	P2ST	V2ST	V2ST	VST
	IN2	PSB2	P3ST	-	-	-
	IN3	PSB3	P4ST	-	-	-
	IN4	PSB4	P5ST	-	-	-
	IN5	PSB5	P6ST	-	-	-
Input	IN6	PST	P7ST	-	-	-
	IN7	JOGM	JOGM	-	-	-
	IN8	JOGP	JOGP	-	-	-
	IN9	OST	OST	OST	OST	OST
	IN10	SVON	SVON	SVON	SVON	SVON
	IN11	ALMRST	ALMRST	ALMRST	ALMRST	ALMRST
	IN12	STOP#	STOP#	-	-	-
	OUT0	PCB0/ ACB0	P1END	P1END	P1END	P1END
	OUT1	PCB1/ACB1	P2END	P2END		
	OUT2	PCB2/ ACB2	P3END	-	-	-
	OUT3	PCB3/ ACB3	P4END	-	-	-
	OUT4	PCB4	P5END	SW1	SW1	SW1
	OUT5	PCB5	P6END	SW2	SW2	SW2
	OUT6	PEND	P7END	-	-	-
Output	OUT7	PZONE/ ZONE1/ ZONE2/ MOVE/ WARN# SLMT/ SLMTM/ SLMTP	PZONE/ ZONE1/ ZONE2/ MOVE/ WARN# SLMT/ SLMTM/ SLMTP	PZONE/ ZONE1/ ZONE2/ MOVE/ WARN# SLMT/ SLMTM/ SLMTP	PZONE/ ZONE1/ ZONE2/ MOVE/ WARN# SLMT/ SLMTM/ SLMTP	PZONE/ ZONE1/ ZONE2/ MOVE/ WARN# SLMT/ SLMTM/ SLMTP
	OUT8	PZONE/ ZONE1/ ZONE2/ MOVE/ WARN# SLMT/ SLMTM/ SLMTP				
	OUT9	OEND	OEND	OEND	OEND	OEND
	OUT10	SONS	SONS	SONS	SONS	SONS
	OUT11	ALM#	ALM#	ALM#	ALM#	ALM#
	OUT12	READY	READY	READY	READY	READY

^{*}The pound sign (#) indicates a negative logic signal.

CKD

ECG A

Parallel I/O connection diagram (ECG-ANNN30-NP**)



- *2 A surge protector is required to comply with the CE marking.
- *3 This can be used even if the polarity is reversed.

Accessories

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Part name	Manufacturer model	Manufacturer
Power supply	DFMC1.5/3-STF-3.5	PHOENIX CONTACT
connector	DI WC 1,5/3-31F-3,5	I HOLINIA CONTACT

4Encoder connector

6 Power supply connector

5Motor connector

Description of field network operation modes

Operation mode	Overview
PIO mode (PIO)	Point operation can be used and signal assignment of inputs and outputs can be changed in the operation mode (PIO) in the same way as the parallel I/O specification. However, you cannot select a direct value operation that sets the operating conditions for operation directly from the PLC. In addition, parameters can be read and written, but the monitor function cannot be used. Refer to the table below for details.
Half simple direct value mode (HSDP)	This mode is selectable only with the CC-Link specification controller. Switching the direct travel selection signal enables a target position to be arbitrarily be set by the PLC or 64 point operation. The selected direct travel operation method can then be used. The monitoring function can be used with restrictions. However, reading and writing of parameters are not possible. Refer to the table below for details.
Simple direct value mode (SDP)	Switching the direct travel selection signal enables a target position to be arbitrarily be set by the PLC or 64 point operation. The selected direct travel operation method can then be used. Reading and writing of parameters are possible, and the monitoring function can be used. Refer to the table below for details.
Half direct value mode (HDP)	This mode is selectable only with the CC-Link specification controller. Switching the direct travel selection signal enables operating conditions to be arbitrarily be set by the PLC with restrictions or 64 point operations. The selected direct travel operation method can then be used. The monitoring function can also be used. However, reading and writing of parameters are not possible. Refer to the table below for details.
Full direct value mode (FDP)	Switching the direct travel selection signal enables operating conditions to be arbitrarily be set by the PLC or 64 point operation. The selected direct travel operation method can then be used. Reading and writing of parameters are possible, and the monitoring function can be used. Refer to the table below for details.

Operation mode		PIO	HSDP	SDP	HDP	FDP
Parameter reading/writing		Available	Not available	Available	Not available	Available
Direct v	alue travel selection *1	Cannot be selected	1	1	1	1
Po	sitioning numbers	64	No limit	No limit	No limit	No limit
	Target position	-	0	0	0	0
	Positioning width	-	-	-	0	0
	Speed	-	-	-	0	0
	Acceleration	-	-	-	•	0
	Deceleration	-	-	-	•	0
Direct value	Pressing rate	-	-	-	0	0
travel Item *2	Pressing distance	-	-	-	0	0
	Pressing speed	-	-	-	-	0
	Position designation method	-	-	-	0	0
	Operation mode	-	-	-	0	0
	Stop method	-	-	-	0	0
	Acceleration/deceleration method	-	-	-	0	0
	Position	-	0	0	0	0
Monitor Item	Speed	-	0	A	0	0
*3	Current	-	0	A	0	0
	Alarm	-	-	A	0	0

^{*1:} When direct value travel selection is 0, operation uses the value set in the point data. This enables up to 64 positioning points.

^{*2: &}quot;O" indicates Item operating with value set by PLC. "-" indicates operation with the value set by the point data.

[&]quot;O" indicates Items operated with the value set by the PLC, but only the same values can be set.
*3: "O" indicates Items that can be monitored. "-" indicates Items that cannot be monitored. Only one selected Item can be monitored from "A".

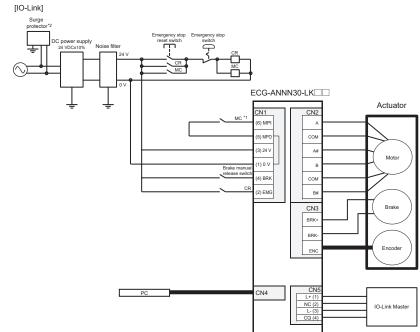
[&]quot;A" indicates which Items can be monitored when selected as monitor values (one at a time for CC-Link and IO-Link, three values at a time for the others).

IO-Link specifications and connection diagram (ECG-ANNN30-LK**)

[Communication specifications]

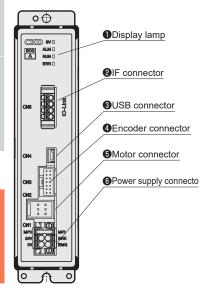
-	-	
Item	Specifications	
Communication protocol version	V1.1	
Transmission bit rate	COM3(230.4kbps)	
Port	Class A	
Process data	PIO mode: 2 bytes	
length (input) PD (in) data	Simple direct value mode: 9 bytes	
length	Full direct value mode: 12 bytes	
Process data	PIO mode: 2 bytes	
length (output) PD (out) data length	Simple direct value mode: 7 bytes	
	Full direct value mode: 22 bytes	
Minimum cycle time	PIO mode: 1 ms	
	Simple direct value mode: 1.5 ms	
	Full direct value mode: 2.5 ms	
Monitor function	Position, speed, current, alarm	
* The available monitoring Items depend on the operation mode		

^{*} The available monitoring Items depend on the operation mode Refer to page 123 for details.



- *1 If the motor drive source must be shut off for safety category compatibility, connect a contact such as an electromagnetic switch between the MPI and MPO terminals. (Connected with jumper wires at shipment.)
- *2 A surge protector is required to comply with the CE marking.

[Panel description]



Cyclic data from master

DD (out)	bit	Full direct value mode		
PD (out)	DIL	Signal name		
	7	Pause#		
	6	Stop#		
	5	Alarm reset		
0	4	Servo ON		
	3	Origin return start		
	2	Point travel start		
	1	JOG/INCH (+) travel start		
	0	JOG/INCH(-)Travel start		
	7	INCH selection		
1	6	-		
	5 to 0	Point number selection bit 5 to 0		
	7 to 4	-		
2	3 to 1	Rotation direction (direct value travel)		
	0	Direct value travel selection		
3 to 6	7 to 0	Position (direct value travel)		
7 to 8	7 to 0	Positioning width (direct value travel)		
9 to 10	7 to 0	Speed (direct value travel)		
11	7 to 0	Acceleration (direct value travel)		
12	7 to 0	Deceleration (direct value travel)		
13	7 to 0	Pressing rate(Direct value travel)		
14	7 to 0	Pressing speed (direct value travel)		
15 to 18	7 to 0	Pressing distance (direct value travel)		
19 to 20	7 to 0	Gain magnification (direct value travel)		
	7	Position specification method (direct value travel)		
21	6 to 5	Operation method (direct value travel)		
41	4 to 3	Acceleration/deceleration method (direct value travel)		
	2 to 0	Stop method (direct value travel)		

Cyclic data from controller

PD (in)	bit	Full direct value mode	
	DIL	Signal name	
	7	Operation preparation complete	
	6	Warning#	
	5	Alarm#	
0	4	Servo ON state	
	3	Origin return complete	
	2	Point travel complete	
	1 to 0	-	
1	7 to 6	-	
'	5 to 0	Point number confirmation bit 5 to 0	
	7	Soft limit over (+)	
	6	Soft limit over (-)	
	5	Soft limit exceeded	
2	4	Zone 2	
	3	Zone 1	
	2	Moving	
	1	Point zone	
	0	Direct travel status	
3 to 6	7 to 0	Position (monitor value)	
7 to 8	7 to 0	Speed (monitor value)	
9	7 to 0	Current (monitor value)	
10 to 11	7 to 0	Alarm (monitor value)	

- * Refer to the instruction manual for other operation modes.
- * # indicates a negative logic signal.

Accessories

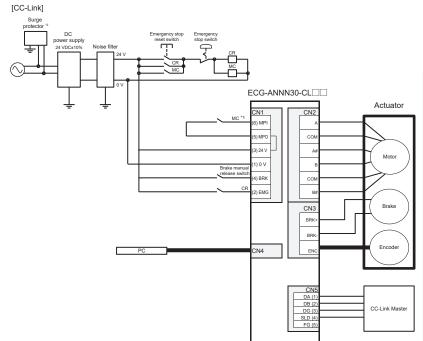
Part name	Manufacturer model	Manufacturer
Power supply connector	DFMC 1,5/3-STF-3,5	PHOENIX CONTACT
IO-Link connector	FMC1,5/4-ST-3,5-RF	PHOENIX CONTACT

CC-Link specifications and connection diagram (ECG-ANNN30-CL**)

[Communication specifications]

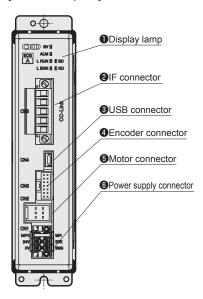
[Confinitionication specifications]			
Item	Specifications		
CC-Link Version	Ver. 1.10		
Station	Remote device station		
Remote station No.	1 to 64 (set by parameter setting)		
	PIO mode (1 station occupied)		
Operation mode	Half simple direct value mode (1 station occupied)		
and number	Simple direct value mode (2 stations occupied)		
of occupied stations	Half direct value mode (2 stations occupied)		
Stations	Full direct value mode (4 stations occupied)		
Remote input/ output points	32 points × occupied stations		
Remote Register input/ output	4-word × occupied stations		
Communication speed	10M/5M/2.5M/625k/156kbps (Selected by parameter setting)		
Connection cable	CC-Link Ver. 1.10 compliant cable (3-conductor twisted pair cable with shield)		
Number of connected units	42 max. when only remote device stations are connected		
Monitor function	Position, speed, current, alarm		

^{*} The available monitoring Items depend on the operation mode. Refer to page 123 for details.



- *1 If the motor drive source must be shut off for safety category compatibility, connect a contact such as an electromagnetic switch between the MPI and MPO terminals. (Connected with jumper wires at shipment.)
- *2 A surge protector is required to comply with the CE marking.

[Panel description]



Cyclic data from master

Device No.	Half simple direct value mode	
Device No.	Signal name	
RYn0	Point number selection bit 0	
RYn1	Point number selection bit 1	
RYn2	Point number selection bit 2	
RYn3	Point number selection bit 3	
RYn4	Point number selection bit 4	
RYn5	Point number selection bit 5	
RYn6	Direct value travel selection	
RYn7	JOG/INCH(-)Travel start	
RYn8	JOG/INCH(+)Travel start	
RYn9	INCH selection	
RYnA	Point travel start	
RYnB	Origin return start	
RYnC	Servo ON	
RYnD	Alarm reset	
RYnE	Stop#	
RYnF	Pause#	
RY(n+1)0		
to	Vacant	
RY(n+1)F		

Device No.	Half simple direct value mode	
	Signal name	
RWw0	Desition (direct value travel)	
RWw1	Position (direct value travel)	
RWw2	-	
RWw3	-	

- * Refer to the instruction manual for other operation modes.
- * # indicates a negative logic signal.

Accessories

Part name	Manufacturer model	Manufacturer
Power supply connector	DFMC1,5/3-STF-3,5	PHOENIX CONTACT
CC-Link connector	MSTB2,5/5-STF-5,08ABGYAU	PHOENIX CONTACT

Cyclic data from controller

Device No.	Half simple direct value mode	
Device No.	Signal name	
RXn0	Point number confirmation bit 0	
RXn1	Point number confirmation bit 1	
RXn2	Point number confirmation bit 2	
RXn3	Point number confirmation bit 3	
RXn4	Point number confirmation bit 4	
RXn5	Point number confirmation bit 5	
RXn6	Direct value travel status	
RXn7	Selectable output 1	
RXn8	Selectable output 2	
RXn9	-	
RXnA	Point travel complete	
RXnB	Origin return complete	
RXnC	Servo ON state	
RXnD	Alarm#	
RXnE	Warning#	
RXnF	Operation preparation complete	
RX(n+1)0 to RX(n+1)F	Vacant	

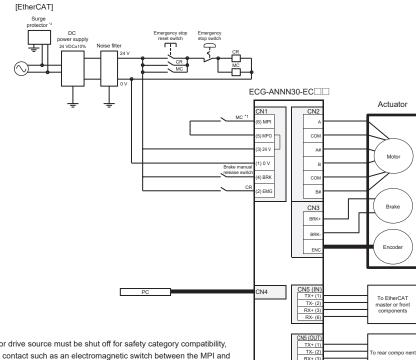
Device No.	Half simple direct value mode	
Device No.	Signal name	
RWr0	Position (monitor value)	
RWr1		
RWr2	Speed (monitor value)	
RWr3	Current (monitor value)	

EtherCAT specifications and connection diagram (ECG-ANNN30-EC**)

[Communication specifications]

Item	Specifications		
Communication speed	100Mbps (fast Ethernet, full duplex)		
Process data	Variable PDO mapping		
Max. PDO Data length	RxPDO:64 bytes/ TxPDO:64 bytes		
Station Alias	0 - 65535 (Set by a parameter)		
Connection cable	EtherCAT compliant cable (Twisted pair cable of CAT5e or higher (Double shield with aluminum tape and braid) is recommended.)		
Node address	Automatic allocation by master		
Monitor function	Position, speed, current, alarm		

^{*} The available monitoring Items depend on the operation mode. Refer to page 123 for details.



*1 If the motor drive source must be shut off for safety category compatibility, connect a contact such as an electromagnetic switch between the MPI and MPO terminals. (Connected with jumper wires at shipment.)

Cyclic data from master

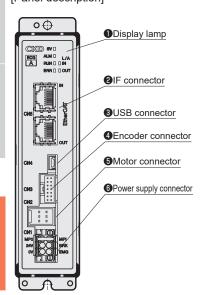
Index	Sub	bit	Full direct value mode
IIIuex	Index	Dit	Signal name
		0 to 5	Point number
			selection bit 0 to 5
		6	-
		7	JOG/INCH (-) travel start
		8	JOG/INCH (+) travel start
		9	INCH selection
	0x 01	10	Point travel start
		11	Origin return start
		12	Servo ON
		13	Alarm reset
0 x 2001		14	Stop#
		15	Pause#
		16 to 31	-
		0 to 3	-
		4	Data request
	0x 02	5	Data R/W selection
		6 to 11	-
		12	Monitor request
		13 to 14	-
		15	Direct value travel selection
		16 to 31	-
	0x 01	0 to 31	Position (direct value travel)
	0x 02	0 to 31	Positioning width (direct value travel)
	0x 03	0 to 31	Speed (direct value travel)
	0x 04	0 to 31	Acceleration (direct value travel)
	0x 05	0 to 31	Deceleration (direct value travel)
	0x 06	0 to 31	Pressing ratio (direct value travel)
	0x 07	0 to 31	Pressing speed (direct value travel)
0 x 2003	0x 08	0 to 31	Pressing distance (direct value travel)
	0x 09	0 to 31	Mode (direct value travel)
	0x0A	0 to 31	Gain magnification
			(direct value travel)
	0x0 B	0 to 31	Writing data
	0x0C	0 to 31	Data number
	0x0D	0 to 31	Monitor number 1
	0x0E	0 to 31	Monitor number 2

Cyclic data from controller

Index	Sub	bit	Full direct value mode	
IIIdex	Index	DIL	Signal name	
		0 to 5	Point number	
			confirmation bit 0 to 5	
		6 to 9	-	
		10	Point travel complete	
	0x 01	11	Origin return complete	
	0.01	12	Servo ON state	
		13	Alarm#	
		14	Warning#	
		15	Operation preparation comple	
		16 to 31	-	
		0 to 3	Data response	
		4	Data complete	
0 x 2005		5	Data write status	
U X 2005		6 to 7	-	
		8 to 11	Monitor response	
		12	Monitor complete	
	0x 02	13 to 14	-	
		15	Direct value travel statu	
		16	Point zone	
		17	Moving	
		18	Zone 1	
		19	Zone 2	
		20	Soft limit exceeded	
		21	Soft limit over (-)	
		22	Soft limit over (+)	
		23 to 31	-	
	0x 01	0 to 31	Position (monitor value	
	0x 02	0 to 31	Speed (monitor value	
	0x 03	0 to 31	Current (monitor value	
	0x 04	0 to 31	-	
0x 2007	0x 05	0 to 31	Alarm (monitor value	
	0x 06to 0x0A	0 to 31	-	
	0x0 B	0 to 31	Read data	
	0x0C	0 to 31	Data (alarm)	
	0x0D	0 to 31	Monitor value 1	
	0x0E	0 to 31	Monitor value 2	

^{*} Refer to the instruction manual for other operation modes.

[Panel description]



Accessories

Part name	Manufacturer model	Manufacturer
Power supply connector	DFMC 1,5/3-STF-3,5	PHOENIX CONTACT

^{*2} A surge protector is required to comply with the CE marking.

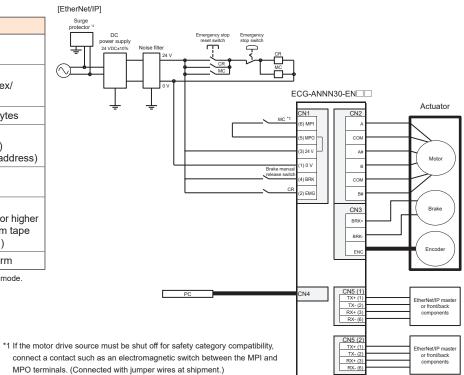
^{* #} indicates a negative logic signal.

EtherNet/IP specifications and connection diagram (ECG-ANNN30-EN**)

[Communication specifications]

Item	Specifications
Communication protocol	EtherNet/IP
Communication speed	Automatic setting (100Mbps/10Mbps, full duplex/ half duplex)
Occupied bytes	Input: 64 bytes/Output: 64 bytes
IP address	Setting with parameters (0.0.0.0 to 255.255.255.255) Via DHCP server (arbitrary address)
RPI (Packet interval)	4ms to 10000ms
Connection cable	EtherNet/IP compliant cable (Twisted pair cable of CAT5e or higher (Double shield with aluminum tape and braid) is recommended.)
Monitor function	Position, speed, current, alarm

^{*} The available monitoring Items depend on the operation mode. Refer to page 123 for details.



Cyclic data from master

[Panel description]		
Panel description Display lamp IF connector Encoder connector Motor connector Power supply connector		

Byte	bit	Full direct value mode	
	DIL	Signal name	
	0 to 5	Point number selection bit 0 to 5	
0	6	-	
	7	JOG/INCH (-) travel start	
	0	JOG/INCH (+) travel start	
	1	INCH selection	
	2	Point travel start	
1	3	Origin return start	
1	4	Servo ON	
	5	Alarm reset	
	6	Stop#	
	7	Pause#	
2 to 3	0 to 7	-	
	0 to 3	-	
4	4	Data request	
4	5	Data R/W selection	
	6 to 7	-	
	0 to 3	-	
5	4	Monitor request	
	5 to 6	-	
	7	Direct value travel selection	
6 to 7	0 to 7	-	
8 to 11	0 to 7	Position (direct value travel)	
12 to 15	0 to 7	Positioning width (direct value travel)	
16 to 19	0 to 7	Speed (direct value travel)	
20 to 23	0 to 7	Acceleration (direct value travel)	
24 to 27	0 to 7	Deceleration (direct value travel)	
28 to 31	0 to 7	Pressing ratio (direct value travel)	
32 to 35	0 to 7	Pressing speed (direct value travel)	
36 to 39	0 to 7	Pressing distance (direct value travel)	
40 to 43	0 to 7	Mode (direct value travel)	
44 to 47	0 to 7	Gain magnification (direct value travel)	
48 to 51	0 to 7	Writing data	
52 to 55	0 to 7	Data number	
56 to 59	0 to 7	Monitor number 1	
60 to 63	0 to 7	Monitor number 2	

*2 A surge protector is required to comply with the CE marking.

Accessories

Part name	Manufacturer model	Manufacturer
Power supply connector	DFMC 1,5/3-STF-3,5	PHOENIX CONTACT

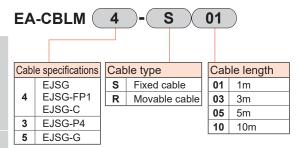
Cyclic data from controller

Byte	bit	Full direct value mode	
		Signal name	
0	0 to 5	Point number confirmation bit 0 to 5	
U	6 to 7	-	
	0 to 1	-	
	2	Point travel complete	
	3	Origin return complete	
1	4	Servo ON state	
	5	Alarm#	
	6	Warning#	
	7	Operation preparation complete	
2 to 3	0 to 7	-	
	0 to 3	Data response	
4	4	Data complete	
4	5	Data write status	
	6 to 7	-	
	0 to 3	Monitor response	
5	4	Monitor complete	
3	5 to 6	-	
	7	Direct value travel status	
	0	Point zone	
	1	Moving	
	2	Zone 1	
6	3	Zone 2	
0	4	Soft limit exceeded	
	5	Soft limit over (-)	
	6	Soft limit over (+)	
	7	-	
7	0 to 7	-	
8 to 11	0 to 7	Position (monitor value)	
12 to 15	0 to 7	Speed (monitor value)	
16 to 19	0 to 7	Current (monitor value)	
20 to 23	0 to 7	-	
24 to 27	0 to 7	Alarm (monitor value)	
28 to 47	0 to 7	-	
48 to 51	0 to 7	Read data	
52 to 55	0 to 7		
56 to 59	0 to 7	Monitor value 1	
60 to 63	0 to 7	Monitor value 2	

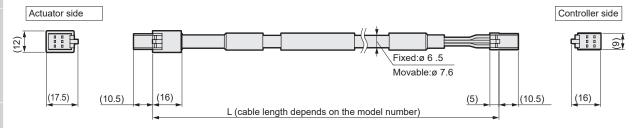
- * Refer to the instruction manual for other operation modes.
- * # indicates a negative logic signal.

Relay cable

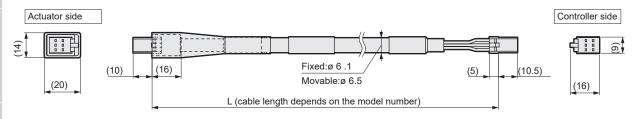
■ Motor cable model No. system (ECG-A Series)



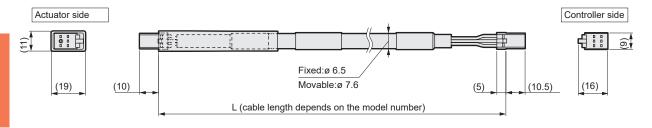
- Motor cable Dimensions (ECG-A Series)
 - EA-CBLM4 (for EJSG, EJSG-FP1, and EJSG-C)



● EA-CBLM3 (for EJSG-P4)



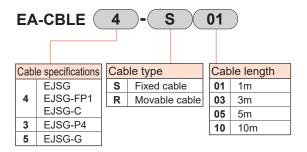
● EA-CBLM5 (for EJSG-G)



^{*} Use with a total cable bending radius of 51mm or more.

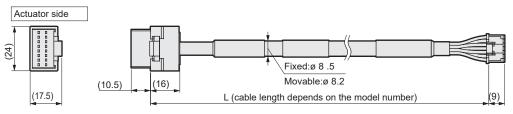
Relay cable

■ Encoder cable model No. system (ECG-A Series)



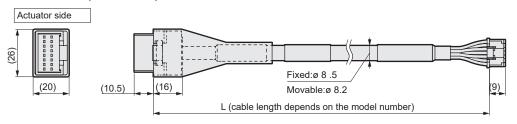
■ Encoder cable Dimensions (ECG-A Series)

● EA-CBLE4 (for EJSG, EJSG-FP1, and EJSG-C)



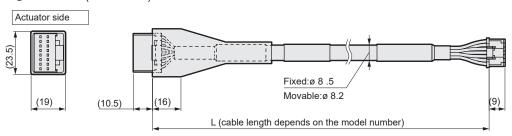


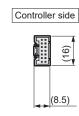
● EA-CBLE3 (for EJSG-P4)





● EA-CBLE5 (for EJSG-G)

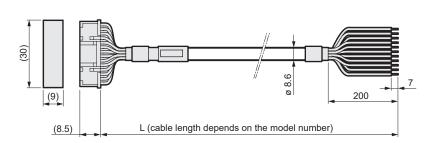


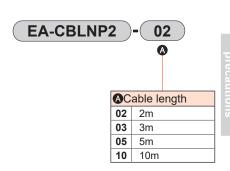


I/O cable

I/O cable

* Parallel I/O specification controller also available





^{*} Use with a total cable bending radius of 51mm or more.

Related parts model No. table

DC power supply

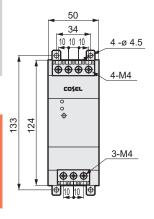


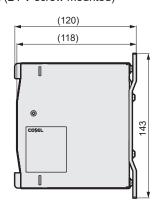
Model No.		Model No.	EA-PWR-KHNA240F-24-N2 (screw mounted)		
Item			EA-PWR-KHNA240F-24 (DIN rail mount)		
Manufacturer			COSEL Co., Ltd.		
Manufacturer	Mounting	screw	KHNA240F-24-N2		
model No.	DIN rail m	ount	KHNA240F-24		
Input voltage			AC85 to 264V 1ø or DC88 to 370V		
	Power		240 W		
Output	Voltage/cu	ırrent	24V10A		
	Variable vo	Itage range	22.5 to 28.5V		
	Overcurren	t protection	Operating at 101% min of peak current		
Overvoltage protection		e protection	30.0 to 36.0V		
Included Remote control		control	Available		
	Remote sensing		-		
Other		,	DC_OK display, ALARM display		
Operating temperature/humidity		umidity	-25 to +70°C, 20 to 90% RH (no condensation), startup possible at -40°C*		
	Cofoty	AC input	AC input: UL60950-1, C-UL (CSA60950-1), EN60950-1		
Annliaghla	Safety standards	AO IIIput	UL508, ANSI / ISA12.12.01, and ATEX; Electrical Appliances and Material Safety Act compliant*		
Applicable standards		DC input	UL60950-1, C-UL(CSA60950-1), EN60950-1		
	Noise terminal voltage		Compliant with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B		
	Harmonic current		Compliant with IEC61000-3-2 (class A)*		
	Dimensions (W x H x D)		50×124×117mm		
Structure	Weight		900g max		
Cooling method		ethod	Natural air cooling		

^{*} Refer to the manufacturer's website for details.

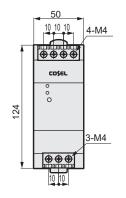
Part names and dimensions

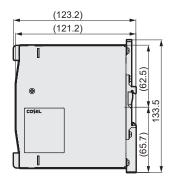
● EA-PWR-KHNA240F-24-N2 (24 V screw mounted)





■ EA-PWR-KHNA240F-24 (24 V DIN rail mounted)





Other components

Part name	Model No.
Noise filter for power supply (single phase, 15 A)	AX-NSF-NF2015A-OD

^{*} Refer to the instruction manual for the ferrite core to be used.

^{*} The CE marking and ROHS are obtained with the manufacturer model No.



Safety Precautions

Always read this section before use.

When designing equipment using electric actuators, the manufacturer is obligated to ensure that the safety of the mechanism and the electrically controlled system are secured.

It is important to select, use, handle and maintain CKD products appropriately to ensure their safe usage.

Observe warnings and precautions to ensure device safety.

Check that device safety is ensured and a safe device is manufactured.



WARNING

- This product is designed and manufactured as a general industrial machine part. It must be handled by an operator having sufficient knowledge and experience in handling.
- 2 Use the product within specifications range.

This product must be used within its stated specifications. It must not be modified or machined additionally. This product is intended for use as a device or part for general-purpose industrial machinery. It is not intended for use outdoors (except for outdoor type) or for use under the following conditions or environment.

(Note that this product can be used under the following conditions only when CKD is consulted prior to use and the customer consents to CKD product specifications. The customer must provide safety measures to avoid risks in the event of problems.)

- 1 Use for special applications which require the safety, including nuclear energy, railways, aircrafts, marine vessels, vehicles, medicinal devices, devices or applications coming into contact with beverages or foodstuffs, amusement devices, emergency operations (cutoff circuits, opening etc.) circuits, press machines, brake circuits, or safety devices or applications.
- Use for applications where life or assets could be adversely affected and special safety measures are required.
- 3 Observe organization standards and regulations, etc. related to the safety of device design.
- 4 Never remove devices before confirming safety.
 - Inspect and service on the machine and devices after confirming safety of the entire system related to this product.
 - 2 Note that there may be hot or charged sections even after operation is stopped.
 - 3 When inspecting or maintaining device, be sure to shut down the power supply of the equipment and the relevant power supply, using caution to avoid electric shock.
- 5 Observe instruction manual and precautions attached the product surely to prevent accidents.
 - 1 The product could operate unexpectedly during teaching operation or trial operation. Be especially careful not to touch the actuator. If operating the product from a position where the shaft body cannot be seen, be sure to first confirm that the safety is secured even if the actuator moves.
- 6 Observe precautions to prevent electric shock.
 - 1 Do not touch the heat sink, cement friction, or motor inside the controller. These will heat up, and could cause burns. Wait an appropriate amount of time prior to performing inspections or other tasks. A high voltage is applied until the electrical load stored in the internal capacitors is discharged after the power is turned OFF. Do not touch for around three minutes after the power OFF.
 - 2 Make sure to turn the switch on the controller power supply source OFF, before maintenances and inspections. There is a danger of high voltage electric shocks.
 - 3 Do not attach or remove connector, while the power is on. Otherwise, this may cause malfunction, failure, or electric shock.
- Install an overcurrent protector.

The wiring to the driver should be in accordance with JIS B 9960-1:2019 (IEC 60204-1:2016) Safety of Machinery - Electrical Equipment of Machines - Part 1: General Requirements. Install an overcurrent protector (a circuit breaker or circuit protector for wiring) on the main power, control power, and I/O power.

(Reference: JIS B 9960-1 7.2.1 General description)

If there is a possibility the circuit current may exceed the rated value of the component or the allowable current of the conductor, an overcurrent protection must be provided. The details of the ratings or set values to be selected shall be provided in 7.2.10.

- 8 Observe precautions below to prevent accidents.
- The precautions are ranked as "DANGER", "WARNING" and "CAUTION" in this section.



DANGER: When a dangerous situation may occur if handling is mistaken leading to fatal or serious injuries, and when there is a high degree of emergency to a warning.



WARNING: When a dangerous situation may occur if handling is mistaken leading to fatal or serious injuries.



CAUTION: When a dangerous situation may occur if handling is mistaken leading to minor injuries or physical damage.

Note that some items described as "CAUTION" may lead to serious results depending on the situation. Every item provides important information and must be observed.



Warranty

1 Warranty period

The product specified herein is warranted for one (1) year from the date of delivery to the location specified by the customer.

2 Warranty coverage

If the product specified herein fails for reasons attributable to CKD within the warranty period specified above, CKD will promptly provide a replacement for the faulty product or a part thereof or repair the faulty product at one of CKD's facilities free of charge.

However, following failures are excluded from this warranty:

- 1) Failure caused by handling or use of the product under conditions and in environments not conforming to those stated in the catalog, the Specifications, or the Instruction Manual.
- Failure caused by use of the product exceeding its durability (cycles, distance, time, etc.) or caused by consumable parts.
- 3) Failure not caused by the product.
- 4) Failure caused by use not intended for the product.
- 5) Failure caused by modifications/alterations or repairs not carried out by CKD.
- 6) Failure caused by reasons unforeseen at the level of technology available at the time of delivery.
- 7) Failure caused by acts of nature and disasters beyond control of CKD.

The warranty stated herein covers only the delivered product itself. Any loss or damage induced by failure of the delivered product is excluded from this warranty.

Note: For details on the durability and consumable parts, contact your nearest CKD sales office.

3 Compatibility confirmation

The customer is responsible for confirming the compatibility of CKD products with the customer's systems, machines and equipment.

4 Range of service

The delivered product price does not include engineer dispatch service fees. Separate fees will be charged in the following cases.

- (1) Instruction of installation and adjustment, and presence on test operation
- (2) Maintenance and inspection, adjustment, and repair
- (3) Technical instructions and technical education (operation, program, wiring method, safety education, etc.)

Precautions for export

Products and related technologies in this catalog

Those of the products and related technologies in this catalog which are subject to US Export Administration Regulations

(EAR) are marked on the product page as "Product subject to the EAR (EAR99) or (EAR99 and 3A991)". For export or provision of products or related technologies subject to EAR regulations, we request that the US Export Administration Regulations (EAR) be observed appropriately.



Safety Precautions

Be sure to read this section before use.

Common precautions: Electric actuator EJSG Series/Controller ECG

Design/selection

1. Common

▲ DANGER

- Do not use in places where dangerous goods such as ignitable substances, inflammable substances or explosives are present.
 - There is a possibility of ignition, combustion or explosion.
- Ensure that the product is free of water droplets and oil droplets.
 - Failure to do so may cause fire or malfunction.
- When mounting the product, be sure to hold and fix it securely (including workpieces).
 - If the product falls, is knocked over, or experiences malfunction, it may lead to injury. As a rule, fix the product using all mounting holes.
- Use a stabilized DC power supply (24 VDC±10%) for the input/output circuit power supply and the ECG Series motor and control power supplies. ACConnecting directly to the power supply may cause fire, explosion, damage, etc.
- With the ECG Series, use only an 24 VDC power supply. Using a 48 V power supply may breakdown the controller.

A WARNING

- Use the product in the range of conditions specified for the product.
- Provide a safety fence to prevent entry to the movable range of the electric actuator. In addition, install the emergency stop button switch as a device in a location which is easy to operate in an emergency situation. For the emergency stop button, use a structure and wiring that will prevent automatic restoration or inadvertent restoration by personnel.
- It may take several seconds to stop in an emergency depending on the travel speed and load.
- If the machine stops in the event of a system failure such as emergency stop or power outage, equipment damage or injury does not occur. Design a safety circuit or device.
- Install indoors with low humidity.
 - There is a risk of electric leakage or fire accidents in places exposed to rainwater or where there is high humidity (humidity of 80% or more, condensation). Oil drops and oil mist are also strictly prohibited. Use in such an environment could lead to damage or operation failure.

- Make sure that the product is D type grounded (ground resistance of 100 Ω or less).
 - If electrical leakage occurs, it may lead to electric shock or malfunction.
- When installing the actuator in a direction other than horizontal, select the type with brake.
 - If the motor is not equipped with a brake, the movable parts may fall off at servo OFF (including emergency stops and alarms) or power OFF, which may result in injury or damage to the workpiece.
- The brakes are not sufficient to completely retain the actuator in all situations. Be sure to achieve a balanced state or install a lock mechanism where safety must be guaranteed, such as when performing maintenance in an application where the slider moves with an unbalanced load or when stopping the machine for a long period of time.
- When vertically installing the actuator, do everything possible to keep the motor on top.
 - While normal operation with the motor on the bottom will not be problematic, if the motor is stopped for a long time, the grease may separate and flow into the motor, very occasionally leading to malfunctions.
- Use and store in accordance with the working/storage temperatures and where there is no condensation. (Storage temperature: -10°C to 50°C, storage humidity: 35% to 80%, operating ambient temperature: 0°C to 40°C (For EJSG, 10°C to 40°C) 35% to 80% of operating humidity) Product abnormal stop or service life may decrease. Ventilate if heat builds up.
- Do not use this product in a location where the ambient temperature could suddenly change and cause dew to condense.
- Install in a location free from direct sunlight, dust, and corrosive gas/explosive gas/inflammable gas/combustibles, and away from heat sources. Furthermore, chemical resistance has not been reviewed for this product.

 Failure to comply may lead to damage, explosion, or combustion.
- Use and store in locations free from strong electromagnetic waves, ultraviolet rays, or radiation. Otherwise, malfunction or damage may result.
- Consider the breakdown possibility of the power source.

 Take measures to prevent bodily injury or machine damage even in the event of a power failure.
- Consider the operation status when restarting after emergency or abnormal stops.
 - Design the system so that bodily injury or equipment damage will not occur when restarting. In addition, the electric actuator must be reset to the start position, design a safe control device. Consider the possibility of power failure of the mounted motor. Take measures to prevent bodily injury or machine damage even in the event of a power failure.

Salety

- Avoid using this product where vibration and impact are present.
- Do not apply a load to the product that is greater than or equal to the allowable load listed in the materials for selection.

A CAUTION

- Do not use in a range where the moving table could collide with the stroke end and break.
- Indicate the maintenance conditions in the device's instruction manual.
 - The product's functionality may drop too low to maintain an appropriate safety level depending on usage conditions, working environment and maintenance status. With correct maintenance, the product functions can be used to the fullest.
- The product is manufactured in conformity with the related standards. Do not disassemble or modify the product.
- The customer is responsible for the compatibility of CKD products with the customer's systems, machines and equipmentfor details.
- Set up the wiring so as not to apply inductive noise. Avoid locations where large currents or strong magnetic fields are generated. Do not use the same wiring (with multiconductor cables) as any large motor power lines other than that of this product. Do not use the same wiring as inverter power supplies used for robots, etc. Apply a frame ground for the power supply and insert the filter to the output part.
- Do not use this product in an environment where strong magnetic fields are generated.

 This could cause improper operation.
- Be sure to separate the power supply of the output of this product and the power supply of inductive loads that generate surges, such as solenoid valves and relays. If the power supply is shared, surge current may flow into the output and cause damage. If a separate power supply cannot be used, connect the surge absorber directly to all inductive loads in parallel.
- Power supply provides ample capacity for the number of installed productsthingfrom the following specifications. Malfunction may occur if there is no excess capacity.

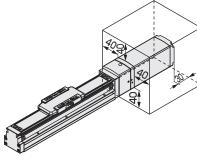
Control power supply 0.4A/unit

Power supply □35...2.4A/base, □42...2.7A/base
□56...4.0A/base

- For UL compliance, use a Class2 power supply unit conforming to UL1310 for the combination DC power supply.
- A fixed cable cannot be used in applications where it is repeatedly bent. Use a movable cable in places where it is repeatedly bent.
- Fix the fixed cable so that it does not easily move. Use fixed cables with a bending radius of 51 mm or more and movable cables with a bending radius of 51 mm or more. Because the bending radius does not apply to bending of the connector part, we recommend fixing near the connector.
- The origin position is recognized when the power supply is turned ON. If an external stopper or holding mechanism (brake, etc.) is attached, an unintended position may be recognized as the origin position. Be careful with the layout of the external stopper, etc., so that the origin can be properly detected after the power supply is turned ON.
- When using the EJSG Series, do not apply a magnetic field with magnetic flux of 0.7mT or more to the surface of the motor.

This may cause damage or malfunction of the product.

■ When using multiple EJSG Series units, separate the motors by at least the distance shown in the figure below. Installing them close together may result in malfunction.



- Check that there is no interference between the workpiece to be mounted on the slider and the motor part.

 Some motors are larger than the slider mounting surface height. (EJSG-08E, EJSG-08R, EJSG-08L)
- When using the EJSG-G Series, keep the purge flow rate from the pressurized port at 40NL/min or more.

2. Controller ECG

■ Check if the controller software version is compatible with the EJSG series.

If the software version on the controller is old, it may not be usable. Refer to the instruction manual for the relation between the software version and the applicable actuators.

Mounting, installation and adjustment

1. Common

▲ DANGER

- Do not enter the operating range of the product while the product is operable.
 - The product may suddenly move and may result in injuries.
- The wiring should be in accordance with JIS B 9960-1: 2019 Safety of Machinery - Electrical Equipment of Machines - Part 1: General Requirements. Install an overcurrent protector (a circuit protector or a shutoff mechanism for wiring) for the primary side of the power supply.
- Do not operate the unit with wet hands. It may lead to electric shock.
- Fingers and other extremities may be snagged between the motor and slider sections of the EJSG Series (slider) during origin return. Please be careful.
- When connecting a personal computer, do not ground its frame ground (FG). When using the controller with positive grounding, connecting the controller and peripheral equipment to the PC with a USB cable risks short-circuiting the DC power supply.

A WARNING

- Precision parts are built in, so laying the product on its side or applying vibration or impact during transportation are strictly prohibited.
- This may cause damage to the parts.
- For preliminary installation, place horizontally.
- Do not step onto the packaging or place objects on it.
- Avoid condensation, freezing, etc., and maintain ambient temperatures of -10 to 50°C and ambient humidity of 35 to 80%RH during transportation and transportation. Failure to do so may cause damage to the product.
- Mount the product on incombustible materials. Direct attachment or mounting to or near flammable materials may cause fire.
 - There is a risk of burns.
- Do not step onto the product or place objects on it.

 This may result in falling, knocking the product over, injury due to falling, product damage and/or malfunctions due therein, etc.
- Take measures to prevent bodily injury or machine damage even in the event of a power breakdown.

 There is a risk of unexpected accidents.
- If the product generates abnormal heat, smoke or odor, turn OFF the power immediately. Otherwise, product may result in damage or fire.

- Stop operation immediately when abnormal noise or major vibration occurs.
 - Otherwise, product damage or abnormal operation may result.
- Wire the product securely while confirming with this catalog and the instruction manual and ensuring that there is no miswiring or loose connectors. Check wiring insulation.
 - Due to contact with other circuits, ground faults and insulation failure between terminals, overcurrent may flow into the product and damage it. This could lead to malfunction or fire.
- Be sure to insulate unused wires.

 This may cause malfunction, failure, or electric shock.
- Do not damage the cable, snag it, apply excessive stress to it, or place heavy objects on it.

 Otherwise, poor conduction or electric shock may occur.
- Be sure to perform a safety check of the component's operating range before supplying power to the product. If the product LEDs do not light up when the power supply is turned ON, immediately turn the power OFF. Inadvertently supplying electricity Inadvertently supplying power can cause electric shock or injury.
- Before restarting a machine or device, check that measures are taken so that parts do not come off.
- Check that the servo is turned OFF when manually moving the movable parts of the product.
- The movable parts of the equipment may make unintended movements when the actuator servo is turned OFF. When turning the servo OFF, take steps to prevent danger and operate the equipment with full attention to safety.
- Before operating the actuator, check that it will operate safely.

A CAUTION

- Regarding installing, setting up, and/or adjusting the actuator, read through the instruction manual and operate correctly.
- When installing the product, be sure to secure space for maintenance work.
 - Otherwise, it may not be possible to conduct inspection and maintenance, leading to stoppage or damage of the device or injury during operation.
- Do not hold the product's movable parts or cables during transportation and installation.
 This may lead to injury or disconnection.
- When carrying the product, support it from the bottom.

- When transporting and mounting the product, ensure operator safety by supporting the product with a lift or other supporting tools, or working in pairs or more.
- Do not install in places where large vibration or impact is transmitted.

 This may cause malfunction.
- Do not operate the movable parts of the product with external force or sudden deceleration.

 This may lead to malfunction or damage due to regenerative current.
- When returning to origin, excluding pressing operation, do not hit the mechanical stopper, etc.

 The feed screw could be damaged or malfunction.
- Durability varies with transported load and environment. The transport load, etc., should be at a setting well within the margin.
- Do not apply external force to the actuator during origin return. There is a possibility of misrecognition of the origin.
- Make sure that no vibration/impact is applied to the movable parts.
- Install such that no torsion or bending force is applied to the product.
- When performing electric welding on the equipment to which the product is mounted, remove all F.G. (frame ground) wire connections to the product. F.G.If electric welding is performed with the connection attached, the product may be damaged by welding current, excessively high voltage during welding, or surge voltage.
- Do not disassemble or modify the product.

 This may cause injury, accident, malfunction or failure.
- Do not bend the fixing cable repeatedly.

 If the cable needs to be repeatedly bent, use a movable cable.
- Fix the fixed cable so that it does not easily move. Use fixed cables with a bending radius of 51 mm or more and movable cables with a bending radius of 51 mm or more. Because the bending radius does not apply to bending of the connector part, we recommend fixing near the connector.
- Avoid use in locations exposed to ultraviolet rays or with atmospheres of corrosive gas or salt. Otherwise, degradation of performance, abnormal operation or deterioration in strength due to rust may result.
- Make sure to use the dedicated cable for connecting between the actuator and controller.
 Mistakenly connecting another component may cause malfunction or failure.
- Before adjusting the gain, secure the actuator body to the machine and securely mount jigs and other components as well.

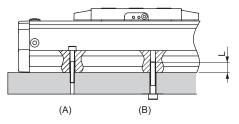
2.EJSG Series

ACAUTION

- Do not apply excessive moment to the slider when using the EJSG Series (slider).
 - This may cause damage or malfunction of the product.
- Make the flatness of the installation surface 0.05mm/200mm or less.
- For the EJSG Series (slider), ensure that the flatness of the workpiece side attached to the slider is 0.02mm or less, and do not apply torsion or bending force to the product.

This may cause damage or malfunction of the product.

■ Tighten the body mounting screws with the appropriate torque.



	(A) Mounting from top		(B) Mounting from bottom		
Item	Usage Bolt	Tightening torque (N·m)	Usage Bolt	Tightening torque (N·m)	Min. screw insertion depth L (mm)
EJSG-04	M 3 x 0.5	0.63	M 4 x 0.7	1.5	6
EJSG-05	M 4 x 0.7	1.5	M 5 x 0.8	3	7.5
EJSG-08	M 5 x 0.8	3	M 6 x 1	5.2	9

When using an external guide, check that it operates smoothly in all positions of the product stroke before installation.

3. Controller ECG

A CAUTION

- When wiring, do not apply excessive force to the connectors.
- Do not push hard on the controller case.
- Use a cable within 10 m to connect the IF connector.

Use/maintenance

1. Common

A DANGER

Do not operate the unit with wet hands. It may lead to electric shock.

A WARNING

- Wiring work and inspection should be done by a specialized technician.
- When performing maintenance, inspection and repair, stop the power supply to this product.

 Caution people in the vicinity that a third party should not turn ON the power inadvertently.
- Do not attach or detach wiring or connectors with the power supply ON.

Failure to do so may cause malfunction, failure, or electric shock.

- For wiring work and inspection, check the voltage with a tester after more than 5 minutes have elapsed since turning OFF the power.

 It may lead to electric shock.
- Mount the product before wiring. It may lead to electric shock.
- Make sure that the diameter of the electric wire used for the power cable can tolerate up to 4.0A of current. Otherwise, heat generation or damage during operation may be caused.
- Do not connect the product's communication connector to other Components.

 Doing so may cause failure or damage.
- Turn OFF the power supply in the event of a power failure. When the power is restored, the product may move unexpectedly and cause accidents.
- Perform a safety check of the component's operating range before supplying power to the product. Inadvertently supplying power can cause electric shock or injury.
- Do not enter the operating range while the product is operable.

The product may move unexpectedly and cause injury.

- Do not touch the product with hands or body during operation or immediately after stopping. This may cause burns.
- Do not step onto the product or place objects on it. This may result in falling, knocking the product over, injury due to falling, product damage, malfunctions due thereto, etc.
- Take measures to prevent bodily injury or machine damage even in the event of a power Breakdown.

 There is a risk of unexpected accidents.

- Before operating from a position where the actuator cannot be seen, confirm that it can be safely operated.
- Check that the servo is turned OFF when manually moving the movable parts of the product.
- If there is a problem with the timing belt, stop operation immediately and replace the timing belt. Breakage of the timing belt in vertical use is particularly dangerous, so be sure to replace it in a timely manner.

Check for wear and tear on the teeth or sides, vertically split teeth, cracked or softened reverse, partial disconnection or the like of the timing belt.

- If the product generates abnormal heat, smoke or odor, turn OFF the power immediately. Otherwise, product may result in damage or fire.
- Stop operation immediately when abnormal noise or major vibration occurs.
 Otherwise, product damage or abnormal operation may result.

A CAUTION

- Do not put fingers or objects into the opening of the product. This may cause product damage or injury.
- Do not dent or damage the movable parts.

 This may cause malfunctions.
- Do not turn OFF the servo with gravity or inertia applied.

The product may continue to operate or fall at servo OFF. Be sure to turn OFF the servo in a balanced state without gravity or inertia applied, or confirm safety before proceeding.

- Do not issue a stop command while the product is accelerating or decelerating.
 - Doing so may result in a dangerous change in speed (acceleration).
- When operation involves vibration, change the set speed so that vibration does not occur.
- Vibration may occur even within the operation speed range depending on the working conditions.
- Deflection or displacement of the steel belt is more likely to occur if slider products are mounted on the wall or ceiling. Continued use in this state may cause trouble, such as breakage of the steel belt. Be sure to conduct daily inspections and adjust the steel belt if there is deflection or displacement.
- Do not disassemble or modify the product.

 This may cause injury, accident, malfunction or failure.

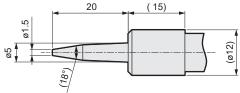
precaution

- Ensure proper operation through periodic inspections (2 to 3 times per year).

 Refer to the instruction manual for details.
- Routinely resupply the grease at intervals of about 100km. However, situations may differ depending on working conditions, so determining a lubrication interval based on the initial inspection is recommended. Refer to the instruction manual for details.
- Be sure to wear protective eyewear when lubricating. If grease scatters and enters the eye, it may cause inflammation.
- Grease lubrication
- Recommended grease

Target actuator	Recommended grease		
rarget actuator	Model No.	Manufacturer	
EJSG-Standard Series EJSG-G Series	AC-D	Cooperative Oil and Fat Products Co., Ltd.	
EJSG-FP1 Series	L700	THK	
EJSG-C Series	AFF	THK	

- *Contact your CKD Sales representative for details on the EJSG-P4 Series grease.
- Refer to the figures below for the recommended nozzle shape for grease lubrication.



· Recommended nozzle

Model No.	Manufacturer
HSP-3	Yamada Corporation

- Grease nozzle for EBS/EBR Series cannot be used.
- When disposing of the product, comply with laws pertaining to waste treatment and cleaning. Consign it to a specialized waste disposal company for processing.
- The circuit board inside the product has capacitors connected in between the circuits and the metal body to prevent damage due to static electricity. Avoid withstand voltage and insulation resistance tests on equipment with this product installed. If tests are done, the product will be damaged. If it is necessary for the equipment, remove the product before doing the test.

- When replacing the motor unit, follow the procedure and be sure to adjust the origin.
 - If the origin is not adjusted, the unit may move outside the stroke range and collide with the internal mechanical stopper, causing damage.
- If removing the timing belt, follow the procedure and be sure to adjust the origin.
 - If the origin is not adjusted, the unit may move outside the stroke range and collide with the internal mechanical stopper, causing damage.
- If the actuator and controller combination is changed, be sure to confirm the programs and parameters prior to operation.
 - Otherwise, there is a risk of unexpected accidents.
- The actuator position is recognized after the power is turned ON. Do not operate the moving table for several seconds after the power is turned ON.

 The position may not be appropriately confirmed leading to
 - The position may not be appropriately confirmed, leading to unexpected operation.

2. Controller ECG

A CAUTION

- Frequently turning the power ON/OFF can cause damage to the elements inside the controller.

 Repeatedly energizing and shutting OFF the power can
 - shorten the life of capacitors and other components. In addition, if there is no more than a one-second interval between the power being cut OFF and the power being turned ON again, the product may be damaged by the surge voltage.
- Do not operate in excess of the maximum load capacity. The elements inside the controller may overheat and be damaged.
- When clamping during pressing operation, set the position about 5 mm greater than the target stop position. Otherwise, clamping force may not be generated, depending on the stop position.
- The relationships between pressing force and pressing rate described in this catalog are merely guidelines. Fluctuation in motor torque, etc., may cause errors even at the same set values.

EJSG Model Selection Check Sheet → CKD (Contact

Fill in the form and send to the nearest CKD Sales Office. We will respond with the model selection results.

Customer:

	Company	Department	
ı	Name	E-mail	
	Tel.	Fax	

Selecting conditions:

Desired model	(EJSG)-		
Basic specifications	Max. stroke: mm, ball screw lead: mm		
	Travel stroke: mm, travel time: s		
Operating	Set speed: mm/s		
conditions	Set acceleration/deceleration: mm/s ²(Set acceleration/deceleration time: s)		
	Repeatability: ± mm		
	Slider		
	Load weight: kg		
	Mounting orientation: Horizontal/Wall mounted / vertical / ceiling mounted / other		
Load	B C A C C		
conditions	Distance from slider center to load center of gravity		
	Direction A: mm		
	Direction B: mm		
	Direction C: mm		
	Pressing load: No / Yes (N) Operating / Stopped Direction of the force applied to slider center ()		
Working	Ambient temperature: °C, Ambient humidity: %		
environment	Atmosphere:		
Interface specification	Parallel I/O / IO-Link / CC-Link / EtherCAT / EtherNet/IP		
Remarks			

MEMO

Related products

Electric actuator EBS-M/EBR-M Series

- Slider EBS-M Series
 High speed transport
- Rod with built-in guide EBR-M Series For press fitting and hoisting
- Controller ECR Series Connected to any actuator "One controller"
- Controller ECG Series

 New Controller with easy inventory management, easy design, and easy configuration

New options and wider possibilities

Catalog No. CC-1422A

CKD

Catalog No. CC-1444A

ROBODEX Puls



Electric actuator FLSH/FLCR/FGRC Series

- 2-Finger Gripper FLSH Series For soft handling of various workpieces
- Table FLCR Series For short stroke workpiece transport and positioning
- Rotary FGRC Series
 For indexing operation and workpiece inversion
- Controller ECR Series
 One controller that connects to any actuator
- Controller ECG Series New Controller with easy inventory management, easy design, and easy configuration

Electric actuator FFLD Series

- 2-Finger Gripper
- 3 sizes
- Built-in controller
- 1 cable
- Max. Stroke 80mm (one side)
- Max. gripping force 500N (one side)
- Interface IO-Link

Catalog No. CC-1492A



Catalog No. CC-1591

CKD

New Products

電動アクチュエータ

ロントローラ ESCシリーズ コントローラ ECGシリーズ

エア機器のDNAを継承した 新しい電動アクチュエータ

Related products

Electric actuator D Series, G Series

New electric actuator inheriting the DNA of air Components

- D Series (screw drive method) An actuator specialized for positioning between two points
- D Series (Spring drive method) Spring integrated actuator specialized for clamp/grip applications
- G Series(Screw drive method) 64-point positioning actuator

Electric Actuator Motorless General Catalog

Wide-ranging lineup of motorless electric actuators

Slider

For high speed transport **EBS-L Series** For high load transport **ETS/ECS Series** Long stroke transport ETV/ECV Series **EKS-L Series** For fast tact transport

Rod

EBR-L Series For press fitting and hoisting

Catalog No. CB-055A

ROBODEX Pulse



ABSODEX

AX1000/2000/4000TS, TH AX6000MU Series

The Direct Drive Actuator is designed to be userfriendlyFrom palm-sized to large torques. Conveyance, positioning, and simple construction of various devices

■ T DISC Series

The Direct Drive Servo Motor, which boasts high performance A diverse lineup to meet various requirements such as high precision, high speed and speed stability. Achieves one level higher performance.







WORLD-NETWORK



CKD Corporation

Website https://www.ckd.co.jp/en/

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- ASIA
 喜開理(上海)機器有限公司
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Revision details

Controllers ECG-A spec change

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