

## Electric Actuator Motorless specifications

Compatible with rechargeable battery manufacturing

**EBS-12L-P4Series**

Compatible with food manufacturing

**EBS-12L-FP1Series**



### Electric actuator ideal for rechargeable battery manufacturing

## EBS-L-P4 Series



**Environment / supply air**

DEW POINT  
**-80°C**

**Long service life even in ADP-80°C dew point environments**

A diverse lineup compatible with ultra-low dew point atmospheres (including supply air). We develop grease suitable for next-generation battery processes to maximize performance. Lubrication of the sliding part is maintained for long periods, even in dry environments.

**Material restrictions**

**Restricted materials for configuration parts**  
Restricts the use of materials and surface treatments inappropriate for the rechargeable battery manufacturing process. Product failure of rechargeable batteries is reduced.

- Limited copper material
- Limited zinc material
- Limited nickel-based material
- Limited zinc plating
- Limited electrolytic nickel plating

**Make Progress!!**

**P4 Series**

**P4**



### Electric actuator ideal for food manufacturing

## EBS-L-FP1 Series



**Eliminates concerns over lubricant contamination!**

Food grade (NSF H1) lubricant is used for sliding parts.



# EBS-12L series

## Specifications

Applicable motor capacity	400 W servo motor					
Drive method	Ball screw ø16					
Stroke	50 to 1250					
Screw lead	mm	5	10	20	32	
Max. payload *1	kg	Horizontal	110	88	40	30
		Vertical	33	22	10	8
Max. speed	mm/s	250	500	1000	1600	
Rated thrust *1	N	1388	694	347	218	
Repeatability	mm	±0.01				
Lost motion	mm	0.1 or less				
Static allowable load	N	8310				
Static allowable moment	N·m	MP:606 MY:606 MR:1168				
Operating ambient temperature, humidity		0 to 40 °C (no freezing), 35 to 80% RH (no condensation)				
Storage Ambient Temperature, Humidity		-10 to 50 °C (no freezing), 35 to 80 % RH (no condensation)				
Atmosphere		No corrosive gas, explosive gas, or dust				

\*1 Rated thrust and maximum load capacity are guideline values, assuming that the motor mounted will output the rated torque.

## Stroke and max. speed

Stroke Screw lead	(mm/s)											
	50 to 700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
5	250	225	200	175	150	140	130	120	110	100	90	80
10	500	450	400	350	325	300	275	250	225	200	175	150
20	1000	1000	900	800	700	650	600	550	500	450	400	350
32	1600	1450	1300	1150	1050	950	850	750	650	550	450	350

\* The max. speed is the speed when the motor mounted by the customer can output a rotation speed of 3000 rpm. The max. speed is restricted by the stroke. Do not move at speeds beyond the limit.

## Model No. Notation Method

**EBS - 12 L E - 05 0300 NNN - M 4 N N N - P4**

**1 Body Size**

12	Body width 120 mm
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**2 Motor**

L	None
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**3 Motor mounting direction**

E	Straight mounting
R	Right mounting
D	Bottom mounting
L	Left mounting

**4 Screw lead**

05	5 mm
10	10 mm
20	20 mm
32	32 mm

**5 Stroke**

0050 to 1250	50 mm (In 50 mm increments) to 1250 mm
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**6 Mounting Motor Specifications**

M	Select the mounted motor specification from the table at right.
Y	
P	

**7 Motor capacity**

4	400 W
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**8 Origin sensor \*1**

N	None
C	Available

**9 Limit sensor \*1**

N	None
B	Available

**10 Anti-rust treatment**

N	None
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**11 Compatible processes**

P4	Compatible with rechargeable battery manufacturing processes
FP1	Supports food manufacturing processes

\*1 Origin sensor and limit sensor are a set. As it is both-or-nothing, select "None" for both.

\* Model Numbers

This catalog lists model Nos. for the rechargeable battery manufacturing processes (P4) and food manufacturing processes (FP1) that have just been added. For details on the EBS Series (specifications, Dimensions, model Nos., ⚠ Safety precautions, etc.), refer to Electric Actuator ROBODEX std. Motorless Specifications (Catalog No. RJ-015AA).

## External Dimension Drawings

Refer to the electric actuator ROBODEX std. Motorless specifications (Catalog No. RJ-015AA) for details on Dimensions diagram.

For details,



Click!

CKD Component Products website (<https://www.ckd.co.jp/en/>) → Refer to "Model No."

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