

Electric Actuator Low Dust Specification EBS-*L*-C Series



Provides cleanliness of
Class 2.5 equivalent
(ISO 14644-1 standard)

* Refer to the dust generation characteristics page for the conditions.

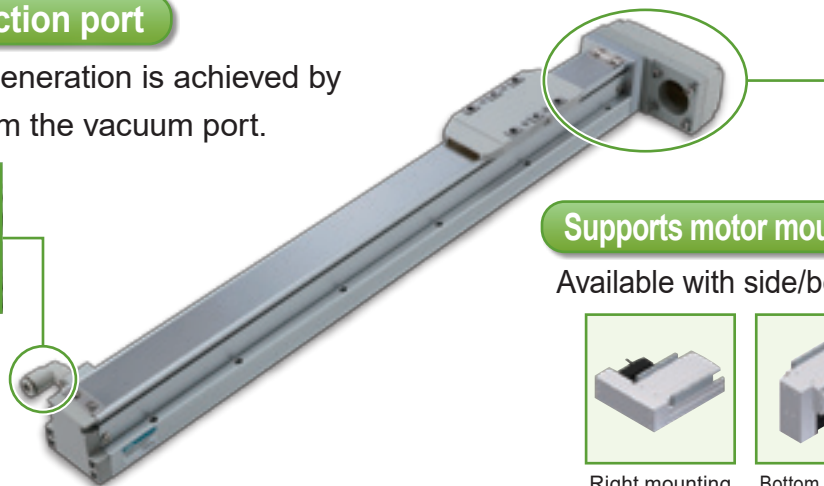


ROBODEX Std.

Compact & Highly Rigid EBS-L Series created with low dust generation specs.

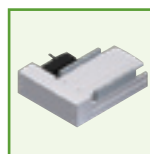
With suction port

Low dust generation is achieved by suction from the vacuum port.

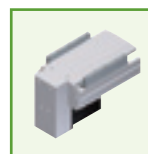


Supports motor mounting on side/bottom

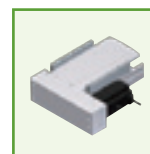
Available with side/bottom motor mounting



Right mounting



Bottom mounting



Left mounting

CKD Corporation

CC-1545A



Electric actuator servo motor compatible (motorless specs) Slider low dust specifications

EBS-*L*-C Series

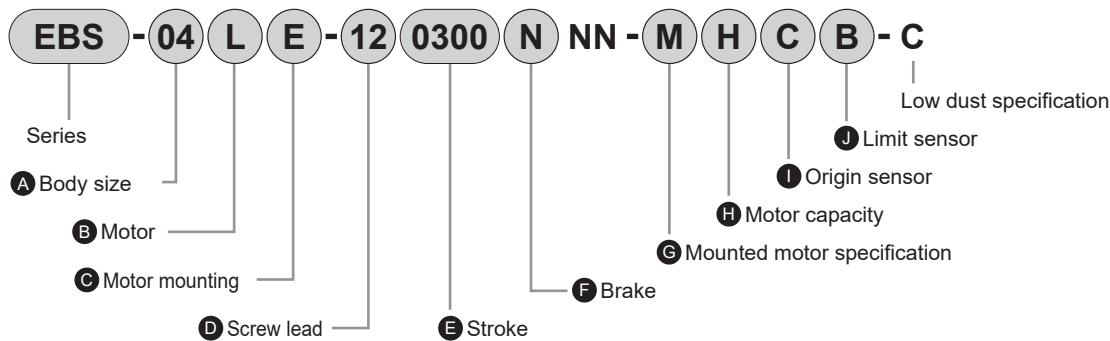
● Applicable motor capacity: 50W/100W/200W

RoHS

Series variation

| Series name | Applicable motor capacity (W) | Body width (mm) | Body height (mm) | Max. stroke (mm) | Max. accel/decel (G) | Motor mounting | Screw lead (mm) | Max. speed (mm/s) | Max. workload | | Rated thrust (N) |
|-------------|-------------------------------|-----------------|------------------|------------------|----------------------|----------------------|-----------------|-------------------|-----------------|---------------|------------------|
| | | | | | | | | | Horizontal (kg) | Vertical (kg) | |
| EBS-04L | 50 | 44 | 52 | 500 | 1 | Straight Side/Bottom | 6 | 300 | 20 | 5 | 141 |
| | | | | | | | 12 | 600 | 12 | 2 | 71 |
| EBS-05L | 100 | 54 | 60 | 800 | 1 | Straight Side/Bottom | 2 | 100 | 30 | 10 | 854 |
| | | | | | | | 5 | 250 | 30 | 10 | 341 |
| | | | | | | | 10 | 500 | 15 | 5 | 170 |
| | | | | | | | 20 | 1000 | 10 | 2.5 | 85 |
| EBS-08L | 200 | 82 | 78 | 1100 | 1 | Straight Side/Bottom | 5 | 250 | 50 | 15 | 683 |
| | | | | | | | 10 | 500 | 30 | 8 | 341 |
| | | | | | | | 20 | 1000 | 12 | 2.5 | 174 |

How to order



[Example of model No.]

EBS-04LE-120300NNN-MHCB-C

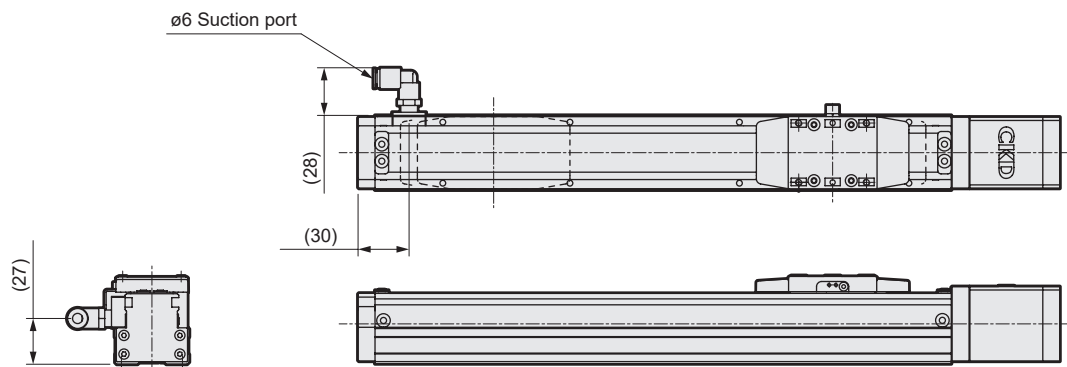
- A Body size: body width 44mm
- B Motor: None
- C Motor mounting: Straight
- D Screw lead: 12mm
- E Stroke: 300mm
- F Brake: None
- G Mounted motor specs.: M (refer to Catalog No. CB-055A)
- H Motor capacity: 50W
- I Origin sensor: None
- J Limit sensor: None

* Listed model No.

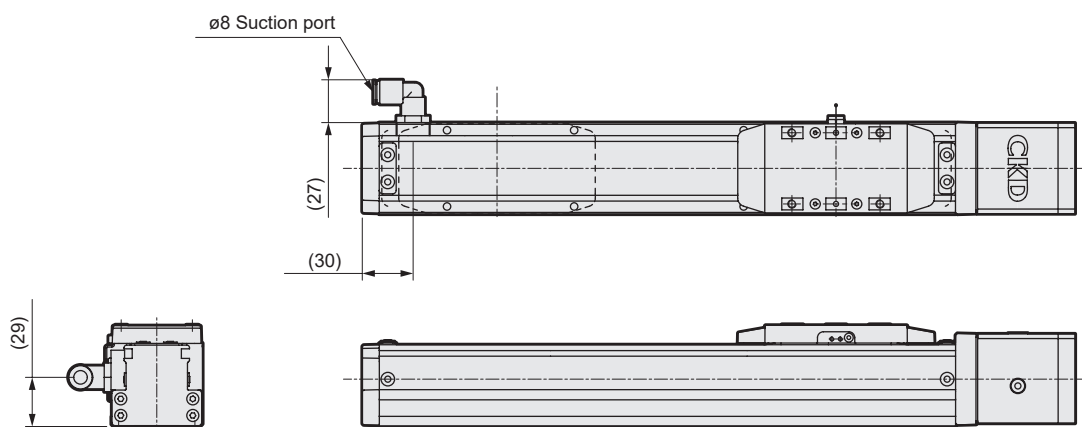
This catalog lists model Nos. of low dust generation specifications (C) that have just been added. For details on the EBS Series (specifications, dimensions, model Nos., safety precautions, etc.), refer to Electric Actuator Motorless General Catalog (No.CB-055A).

Dimensions

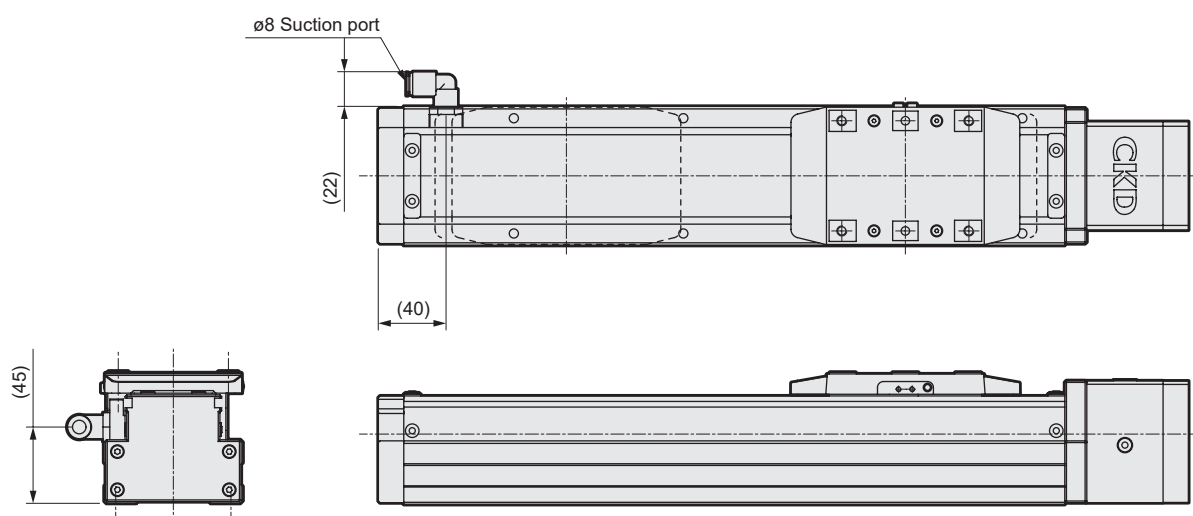
●EBS-04L -C



●EBS-05L -C

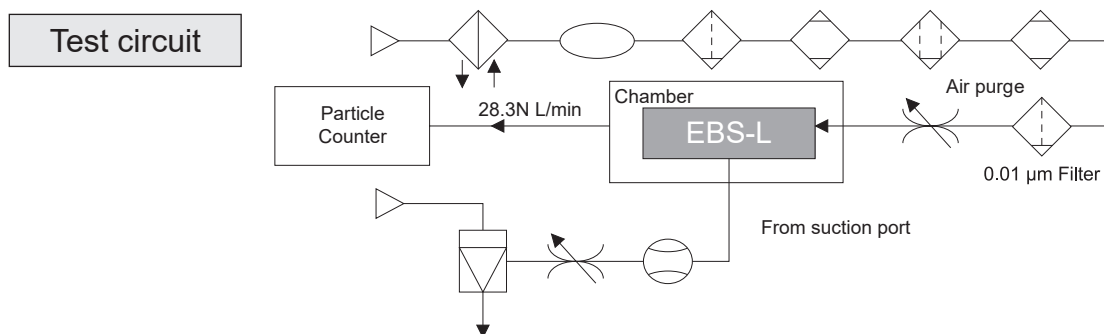


●EBS-08L -C



- * Mount the suction port fittings in the same position regardless of the motor mounting direction.
- * For dimensions of products not listed, refer to "Electric Actuator Motorless General Catalog (No.CB-055A)".
- * Fittings for the suction ports are accessories.
- * Use at an air intake of 30.0N L/min or less.

Dust generation characteristics Reference data



Measuring method

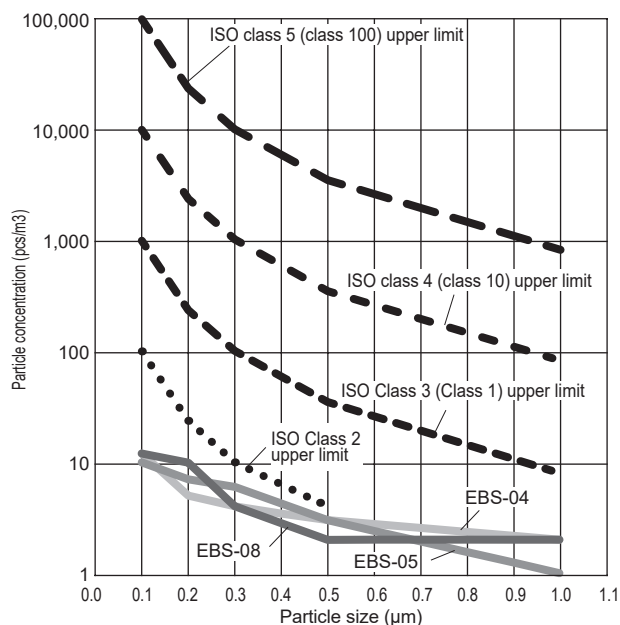
- ① A test sample is installed in an acrylic resin chamber.
- ② The same amount of clean air as the suction amount (28.3 NL/min) of the particle counter is supplied.
- ③ The chamber is set in the clean bench of ISO Class 4 (Class 10).
- ④ A test sample is operated to measure a change in particle concentration over time up to the required measurement time.
- ⑤ Operating speed of test samples

Measuring condition

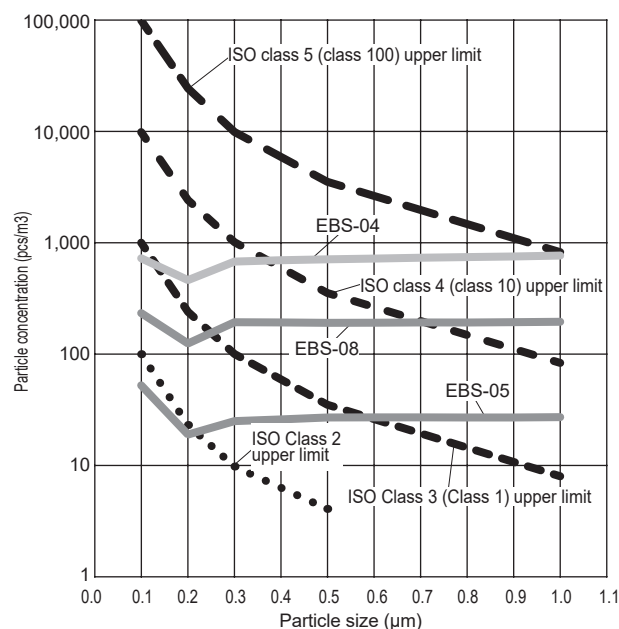
| Item | | Description |
|--------------------|-----------------------------------|---|
| Test sample | Model No. | Operating speed 100mm/sec for EBS-04L*-120400 Operating speed 100mm/sec for EBS-05L*-200400 Operating speed 100mm/sec for EBS-08L*-200400 |
| | Accel/Decel time | 0.4 sec |
| | Air intake | 30.0N L/min for EBS-04L*-120400 |
| | | 30.0N L/min for EBS-05L*-200400 |
| | | 30.0N L/min for EBS-08L*-200400 |
| Chamber | Internal capacity | 28.3N L |
| Particle Counter | Name | Laser dust monitor |
| | Min. measurable particle diameter | 0.1μm |
| | Intake | 28.3N L/min |
| Setting conditions | Sampling | 10min |
| | Interval | 40min |
| | Measurement time | 50min |

Dust generation data

● Operating speed: 100mm/sec



● Operating speed: 500mm/sec



If the goods and/or their replicas, the technology and/or software found in this catalog are to be exported from Japan, Japanese laws require that the exporter makes sure that they will never be used for the development and/or manufacture of weapons for mass destruction.

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