

Compatible with all device applications and compact and efficient.

That is CKD's new approach.

For high speed transport

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EBS-L (ball screw drive) Series

For press fitting and raising/lowering

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Rod type
EBR-L Series

For high load capacity

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Slider ETS (ball screw drive) Series
ECS (ball screw drive, low dust generation) Series

For long stroke transport

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Slider ETV (belt drive) Series
ECV (belt drive, low dust generation) Series

specifications. Making devices more

For short tact transport

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Slider

EKS-L (ball screw drive) Series

List of supported motor manufacturers

	EBS-L EBR-L	ETS/ECS/ ETV/ECV	EKS-L
Mitsubishi Electric Corporation	●	●	●
Delta Electronics Co., Ltd.	●	●	●
Sanyo Denki Co., Ltd.	●	●	●
YASKAWA Electric Corporation	●	●	●
Keyence Corporation	●	●	●
Panasonic Corporation	●	●	●
OMRON Corporation	●	●	●
Fanuc Corporation			●
Bosch Rexroth Corporation	●	●	●

* Refer to the pages of each model for compatibilities and capacities.

EBS-L/EBR-L Series

- Industry standard models
- Repeatability ± 0.01 mm



Versatility

High load capacity

High precision

ETS/ECS Series

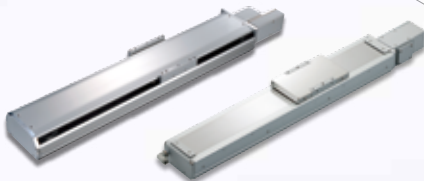
- Max. load capacity: 150 kg (horizontal)
- Line-up for low dust generation specifications
- Compatible with a variety of industries

EKS-L Series

- Repeatability ± 0.01 mm
- Compatible with an acceleration/deceleration of 2 G

Wide variety

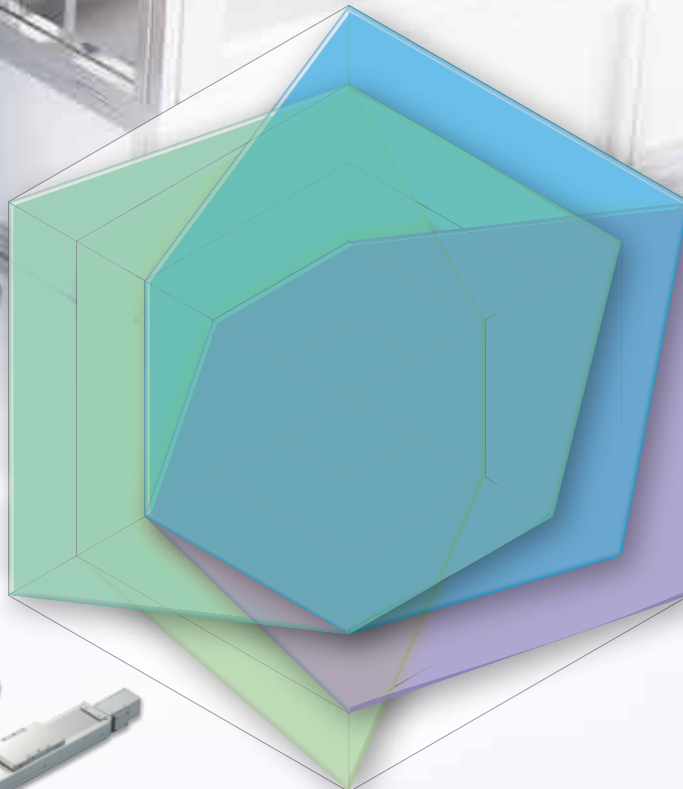
Short tact



Long stroke length

ETV/ECV Series

- Max. stroke length: 3500 mm
- Line-up for low dust generation specifications
- Compatible with a variety of industries



For high speed transport

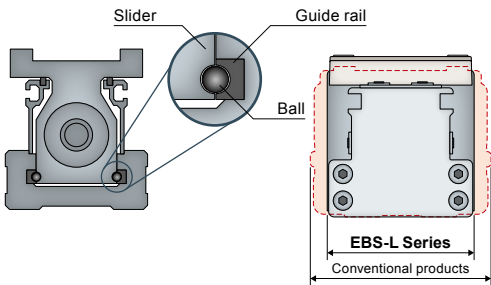


Slider EBS-L (ball screw drive) Series

For saving more equipment space

Compact highly rigid body

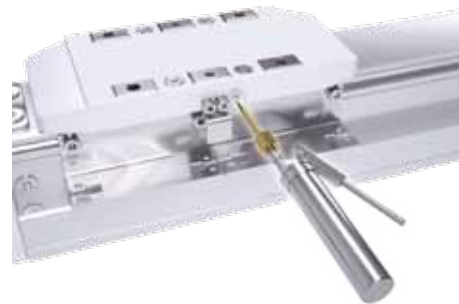
The load supporting guide used is an **outer rail**. The **broad guide is integrated with the body** to enable a compact and highly rigid design.



Easy maintenance

Equipped with a greasing port

Equipped with a port that enables **direct greasing from the outside**. Maintenance can be performed on the guide and ball screw by greasing them **from one point** without disassembling the body.



	Body width	Static allowable moment		
		MP	MY	MR
Conventional products	65 mm	80 N·m	70 N·m	75 N·m
EBS-05L	54 mm	103 N·m	103 N·m	144 N·m

↓ **11 mm** ↓ **28%** ↓ **47%** ↓ **92%**
 Less More More More



For press fitting and raising/lowering

Rod EBR-L Series

Reduces body mounting work hours

Mounting holes provided on the top and bottom of the body

Direct mounting from the top and bottom is possible without removing the cover. Work is significantly reduced especially when mounting from the top.

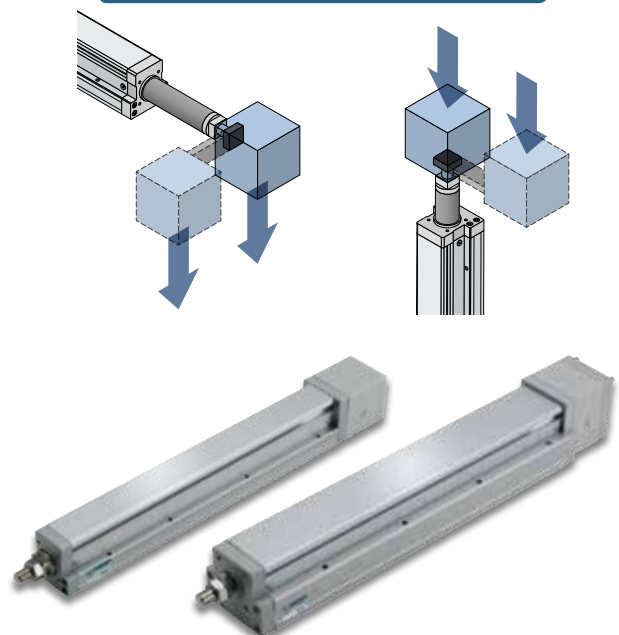


Reduces the necessity for attached guides

Guide integrated rod

The same **guide** used in EBS-L Slider is integrated. A strong structure for offset workpieces as well. Realizes a **stroke longer than conventional strokes**.

Compatible with offset workpieces



A wide variety that corresponds to a multitude of applications and specifications



Slider ETS/ECS/ETV/ECV Series

A wide variety that covers all models

- Max. load capacity 150 kg
- Max. stroke length 3500 mm
- Max. speed 2000 mm/s
- Lead 2 to 40 mm

* ETS and ETV are described with their max. ranges.

There are many varieties made to correspond to all applications and specifications used in the industry based on ball screw drive ETS and belt drive ETV.

Prevent further dust generation with ECS and ECV

Full cover + suction port

The ECV with low dust generation specifications uses the same ball screw drive as ETS and the same belt drive as ECS and ETV with low dust generation specifications. Low dust generation realized with a gapless structure and the suction port. Ideal for liquid crystal panel manufacturing lines and foodstuff lines.



Easy maintenance

Grease nipple equipped

* Select by model No.

Equipped with a grease nipple that enables **direct greasing from the outside**. Maintenance can be performed on the guide and ball screw by greasing them **from one point** without disassembling the body.



Simple position detection with high precision

Origin sensor and limit sensor provided

Simple and highly accurate position detection enabled by the photomicro sensor. The sensor mounting direction can also be selected.



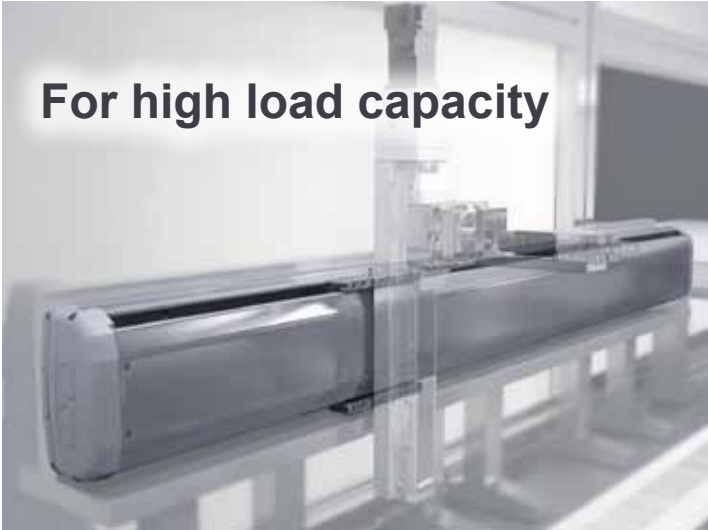
Outside sensor



Outside sensor dog

ELECTRIC ACTUATOR

For high load capacity



Slider ETS (ball screw drive) Series
ECS (ball screw drive, low dust generation) Series

For long stroke transport



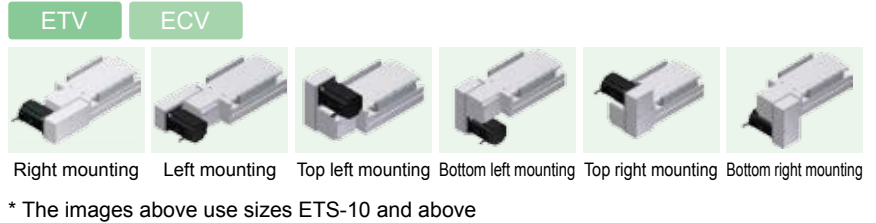
Slider ETV (belt drive) Series
ECV (belt drive, low dust generation) Series

Customize to fit the equipment space

Lineup with a wide variety of motor mounting directions



Motor mounting directions for 5 types of ball screw drive and 6 types of belt drive are provided. Effectively uses the available equipment space.



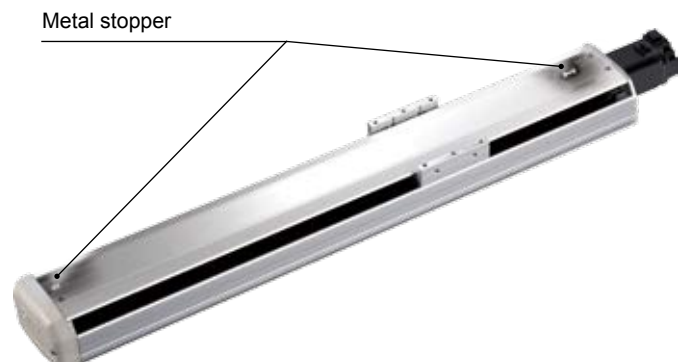
Accurate origin positioning is possible

ETS

Equipped with metal stoppers

The metal stoppers make **push origin positioning** easier and more secure.

* Compatible with sizes ETS-06 and above.



For rechargeable batteries

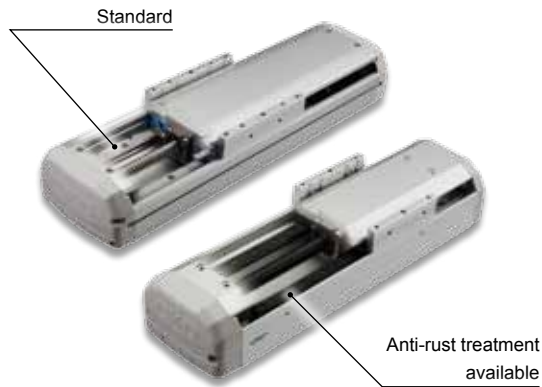
P4 Series

Suited to the rechargeable battery manufacturing processes

ETS ECS

- Limits the usage of copper-based materials
- Usable even in ultra-dry environments with a low dew point
- Optional anti-rust treatment also available

Catalog No. ▶ CC-1283A



For Food Manufacturing Processes

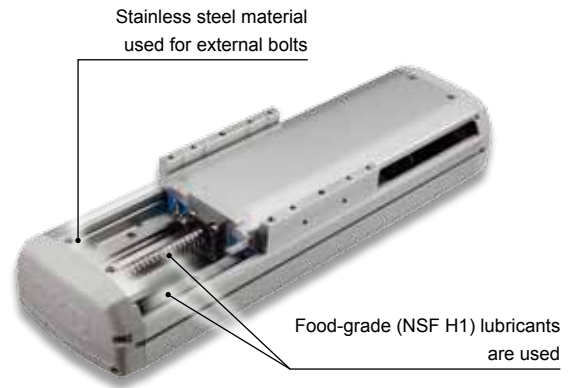
FP1 Series

Ideal for the foodstuffs industry

ETS ECS ETV ECV

- Food-grade NSF H1 lubricants are used on flow paths and sliding portions.

Catalog No. ▶ CC-1320A



Slider

ETS Multi Axis Series

Ideal for multi-axis operation suited to the application

ETS

Multiple models suited to a wide variety of specifications. Catalog No. ▶ CC-1165A

A type (X-Y axes)

Max. load capacity: 50 kg

6 Sizes



G type (with X-Y axes support guide)

Max. load capacity: 50 kg

2 Sizes



P type (X-Z axes)

Max. load capacity: 35 kg

3 Sizes



F type (Y-Z axes)

Max. load capacity: 22 kg

3 Sizes



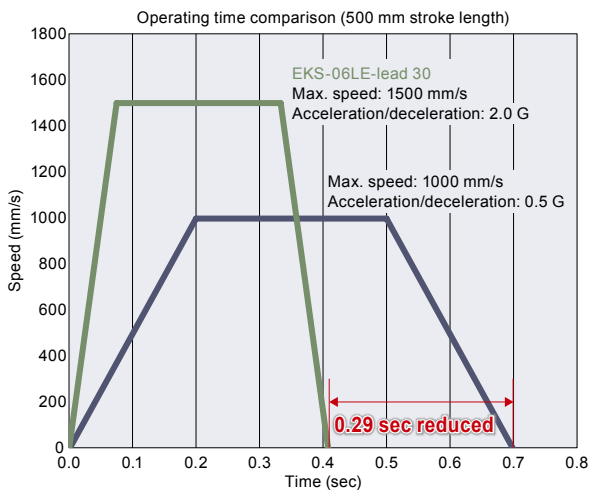
For short tact transport

Slider EKS-L (ball screw drive) Series

Shortened tact time

Compatible with an acceleration/
deceleration of 2 G

A wider ball screw size than conventional models to **further shorten tact and increase speed**. Compatible with **acceleration/ deceleration up to 4 G** depending on conditions.



For saving more equipment space

Iron body with a strong structure for load
and moment

Adopts a U-shaped **outer rail guide** with an iron body. Realized an actuator with a **strong structure suited to moments generated by short tact**.

