

Contributes to "Facilities that never stop"

and "stable operation" for improved productivity!

With the progress of rechargeable and next-generation battery development, we have responded to the demand for components with improved dry environmental performance. These products provide production stability in the manufacturing process, meeting the needs of rechargeable battery manufacturing, from electrode production to packaging.



Material restrictions

Configuration parts material limitations
Limited use of inappropriate material and surface treatment in the rechargeable battery manufacturing process. Product failure of rechargeable batteries is reduced.
*Excluding motor, wiring, and connector

Limited copper material

Limited zinc material

Limited nickel-based material

Limited electrolytic nickel plating

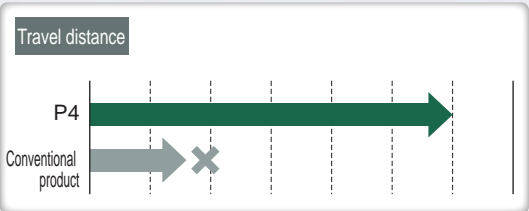
Dry environment

DEW POINT
-70°C

Long service life even in -70°C dew point environments
Ultra-dry environment compatible grease is used. Retains the smooth operation of the sliding part for long periods, even in dry environments.

Stable operation

Contributing to a system that never stops
Uses special grease that supports low dew points and high frequency. Contributes to stable operation of equipment.

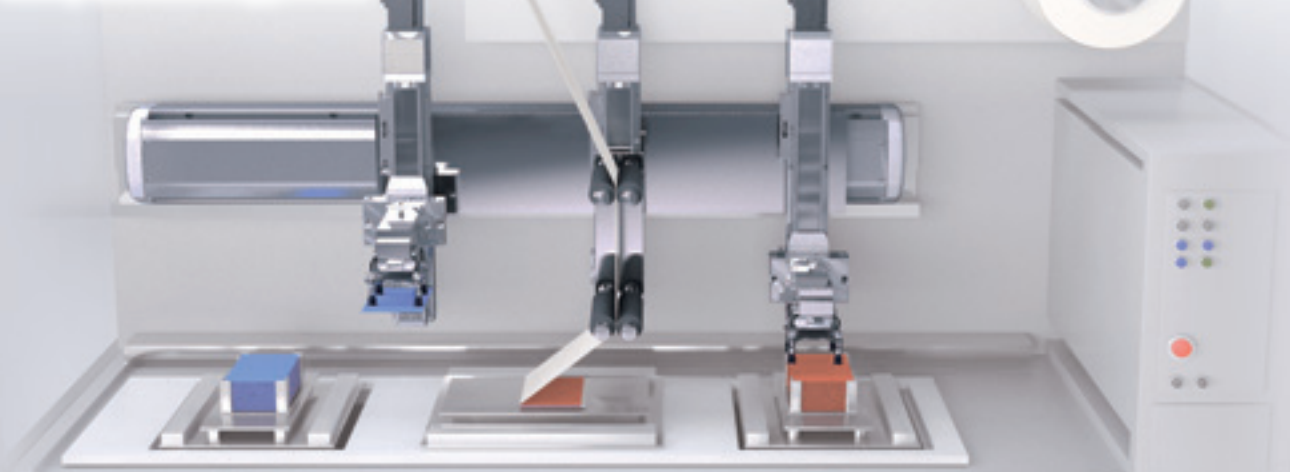


Supports dust generation

Suppresses dust generation of metal wear powder
Equipped with a local exhaust function (vacuum treatment port). Prevents contamination to the electrodes or cell by not leaking the metal wear powder outside.

Contributes to the Electric Motion Systemization of production facilities

In addition to pneumatic components and control valves, the P4 Series also supports electric actuators for multi-model production and shockless transport. We offer a wide range of motor-equipped (stepping motor) and motorless (servo motor/stepping motor) variations. We make optimal proposals for actuators in the rechargeable battery manufacturing process.



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Slider

EBS-G P4 Series

Rod with built-in guide

EBR-G P4 Series

Can be used in any process

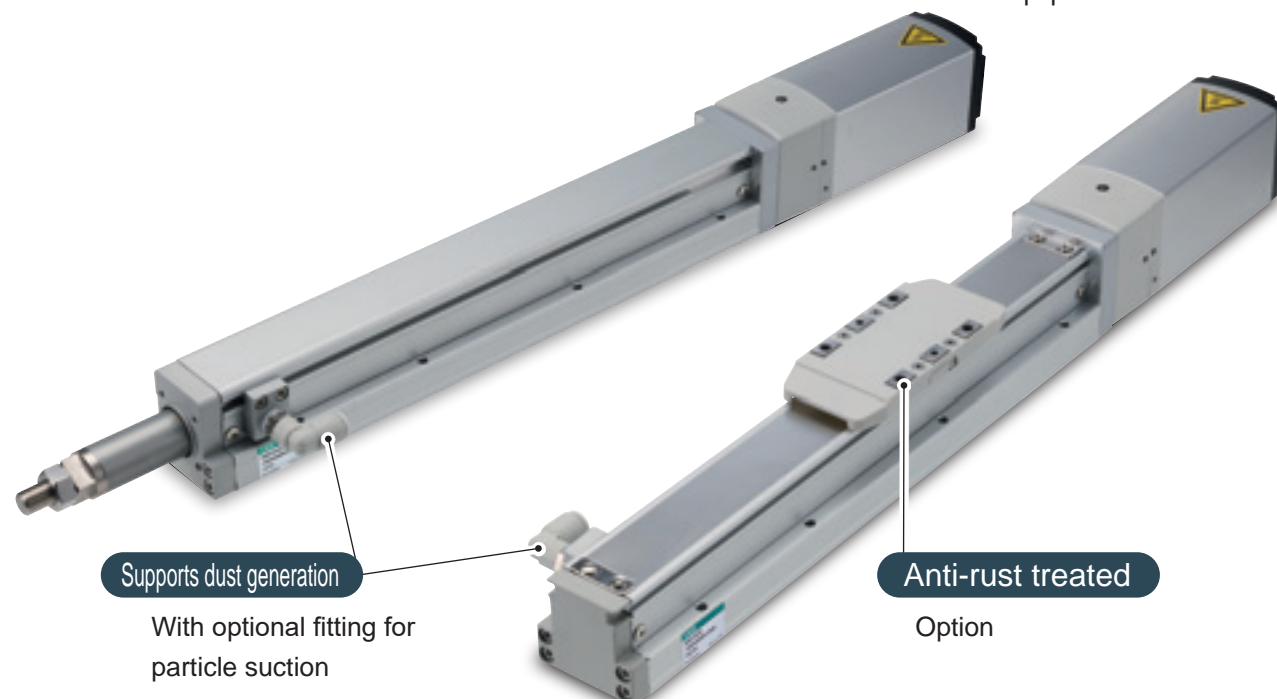
Anti-rust treated

Slider EBS supports anti-rust treatment of the slider part as an option. It can suppress the occurrence of corrosion and rust and improve the reliability of equipment.

Prevention of contamination

Compatible with vacuum treatment fittings

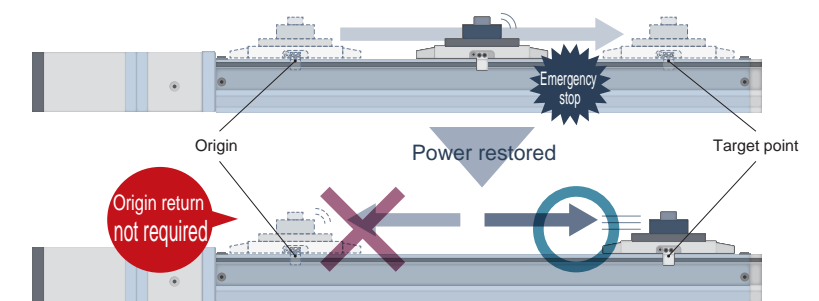
Suction port can be optionally built-in. Suctioning from the port prevents the particles of the movable part of the electric actuator from flowing out. Be rest assured by suppressing contamination of the equipment.



Shorter equipment stop times

Battery-less absolute encoders can be selected

The absolute encoder retains present position information without the use of a battery. The system does not need to return to origin when the power is turned ON, and there is no need to install an origin sensor. This allows quick recovery from an emergency stop or power outage. Because it uses no battery, there is no need to replace the encoder battery.



Expanded selection

Also supports motorless specifications (servo motors/stepper motors)

Each model uses a common body and can also be driven at the same size using a servo motor. This provides even greater control for your preferred motor.

[Servo motor compatible manufacturer]

- Mitsubishi Electric Corp.
- Delta Electronics Co., Ltd.
- Sanyo Denki Co., Ltd.
- YASKAWA Electric Corp.
- Keyence Corp.
- Panasonic Corp.
- OMRON Corp.
- Fuji Electric Co., Ltd.
- FANUC CORP.
- DENSO WAVE INCORPORATED
- Bosch Rexroth AG
- Rockwell Automation, Inc.
- SIEMENS AG

[Manufacturers supporting stepper motors]

- Oriental Motor Co., Ltd.
- MinebeaMitsumi Incorporated
- Dyadic Systems Co., Ltd.

*Refer to separate catalog CB-055A.

Slider

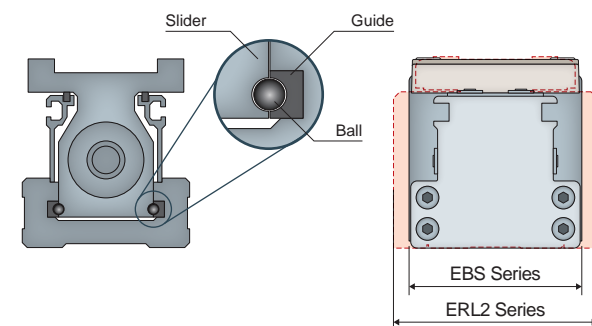
EBS-G P4 Series

High speed transport

Smaller equipment footprint

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 keep the system compact yet provide high rigidity.



		ERL2-60	EBS-05
Body width		64 mm	54 mm
Static allowable moment	MP	25.7 N·m	103 N·m
	MY	25.7 N·m	103 N·m
	MR	58 N·m	144 N·m

Easy maintenance

Equipped with a 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.



Rod with built-in guide

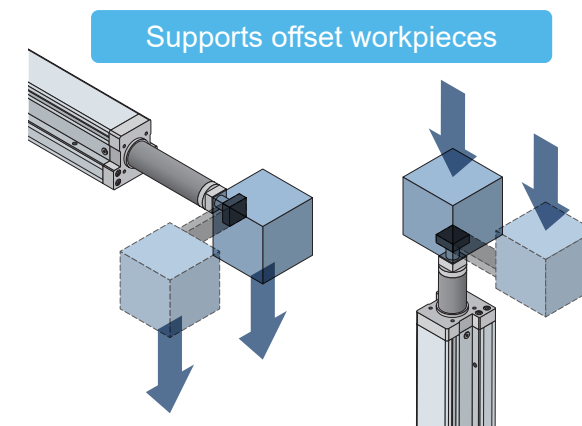
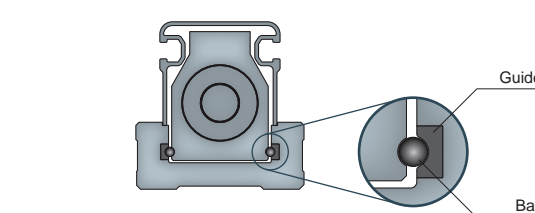
EBR-G P4 Series

For press fitting and hoisting

Reduces need for additional guides

Rod with built-in guide

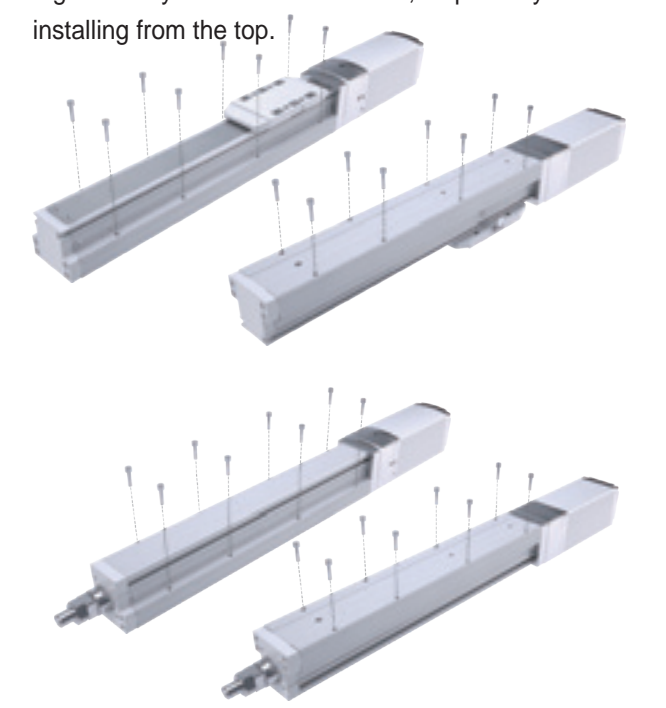
Contains the same guide as the slider EBS. Provides a strong structure even for offset workpieces. It also provides a long stroke even greater than that of conventional products.



Reduced installation time

Mounting holes provided on top and bottom of product

The product structure allows direct installation from the top or bottom, without disassembly. This significantly reduces work time, especially when installing from the top.



Controller ECG Series

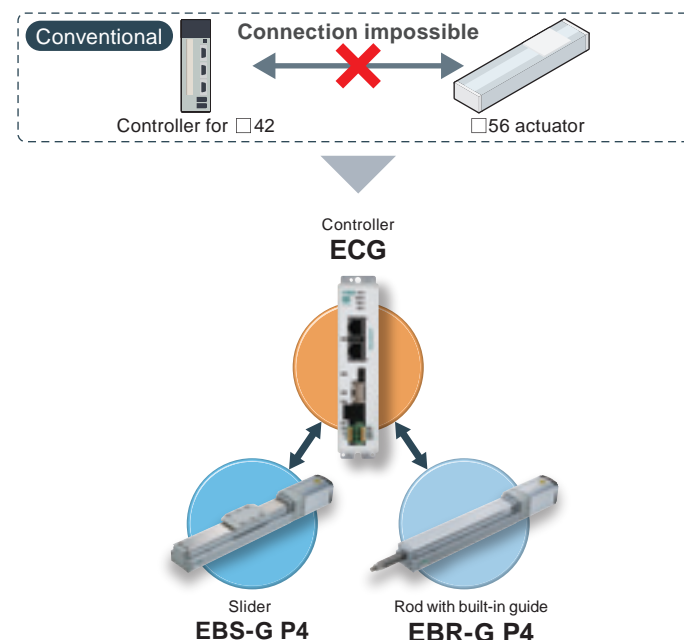
A new controller for every actuator model and size



Reduced initial work hours and stock

Novel functions that support a wide range of motor sizes

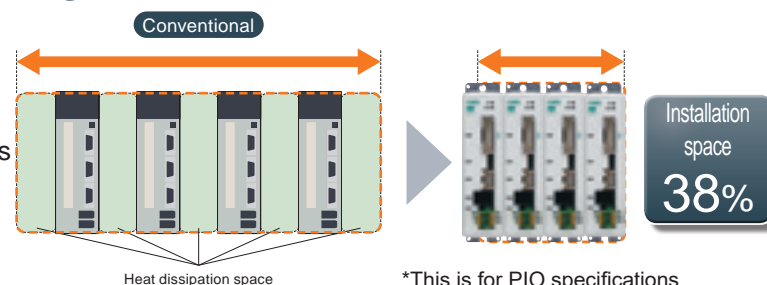
The same controller operates with actuators of different sizes and models. Equipped with an automatic recognition function that reads actuator information, for less work during initial setting. Further, with a common controller, work hours for selection and ordering can be reduced as well as inventory.



Reduced controller footprint

Compact, allowing adjacent installation

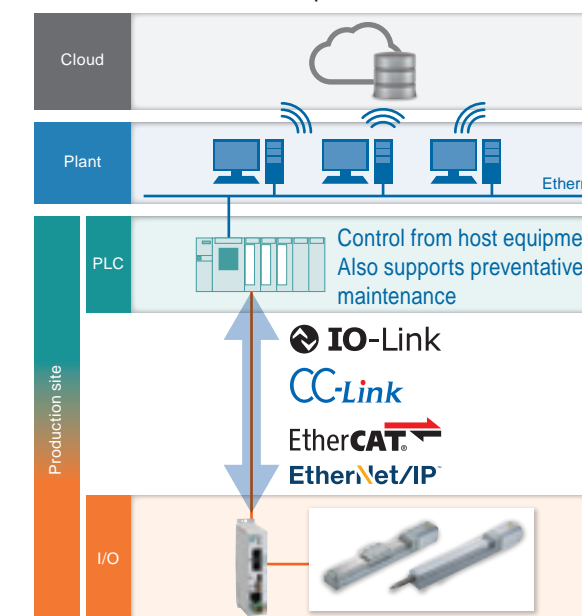
The optimized design eliminates the need for heat dissipation space at the sides. This allows controllers to be installed next to one another.



Supports IoT

Compatible with all types of networks

Our product is compatible with all types of industrial networks. This allows control from host equipment over Ethernet, and also enables preventative maintenance.



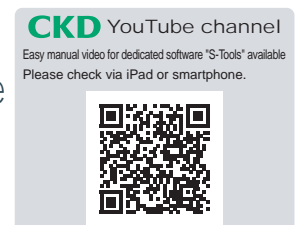
Abundant wiring configurations

EtherNet/IP built-in 2-port connectors, and supports a wide range of line, star and ring wiring.

Reduces adjustment time

Common configuration tool "S-Tools" Easy configuration

Inherits the operational feel of the popular AX-Tools software for ABSODEX. S-Tools can be downloaded from our website for free.



*Depending on your smartphone environment, it may not be displayed correctly.

