


# Ever-evolving electric components for ever- evolving

Slider

EBS-M/G Series



Rod with built-in guide

EBR-M/G Series



# facilities from CKD



Controller

ECG Series



Controller

ECR Series



# INDEX

EBS-M/G Series	1
Series variation .....	2
EBS-04M/G .....	6
EBS-05M/G .....	16
EBS-08M/G .....	26
Technical data .....	36
EBR-M/G Series	47
Series variation .....	48
EBR-04M/G .....	52
EBR-05M/G .....	62
EBR-08M/G .....	72
Technical data .....	82
ECR Series	93
Specifications/How to order/Dimensions/ System configuration .....	94
· Parallel I/O .....	96
· IO-Link .....	100
· CC-Link .....	101
· EtherCAT .....	102
ECG Series	105
Specifications/How to order/Dimensions/ System configuration .....	106
· Parallel I/O .....	108
· IO-Link.....	112
· CC-Link .....	113
· EtherCAT .....	114
· EtherNet/IP .....	115
Safety precautions .....	118
Model Selection Check Sheet .....	126
Related products .....	127



Slider

# EBS-M/G Series

Rod with built-in guide

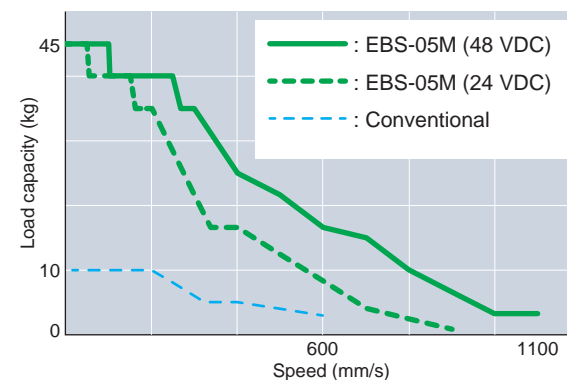
# EBR-M/G Series

## Reduced size

### Significantly improved basic performance

Our new controller provides performance beyond that of conventional products. The 48 VDC power supply provides even further improved performance. This enables compact-bodied products to cope with heavy loads, requiring less installation space.

\*48 VDC is only compatible with ECR.

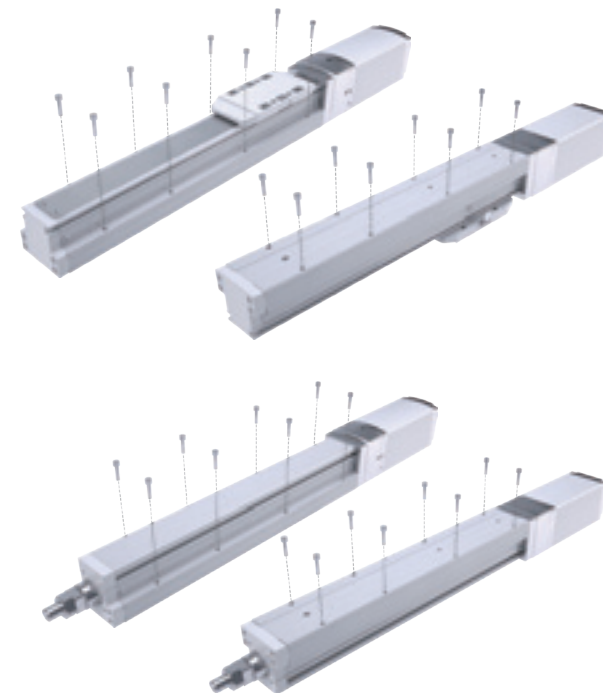


- Max. load capacity: 10kg → 45kg (horizontal)
- Max. speed: 600mm/s → 1100mm/s (horizontal)
- \*Comparison with □ 42 size

## Reduced installation time

### Mounting holes provided on top and bottom of product

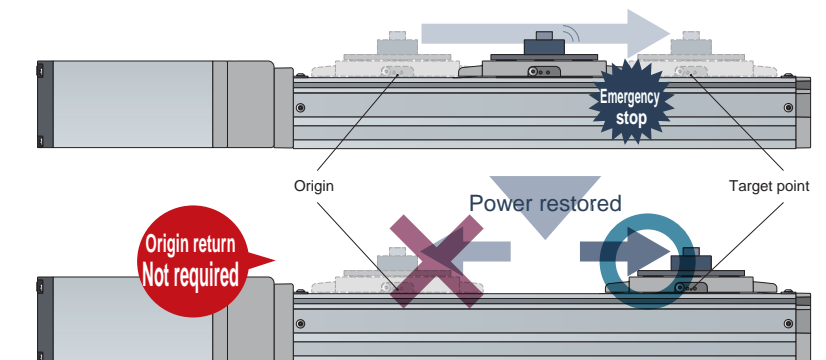
The product structure allows direct installation from the top or bottom, without disassembly. This significantly reduces work time, especially when installing from the top.



## 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 Corporation
- Delta Electronics Co., Ltd.
- Sanyo Denki Co., Ltd.
- YASKAWA Electric Corporation
- Keyence Corporation
- Panasonic Corporation
- OMRON Corporation
- Fuji Electric Co., Ltd.
- FANUC CORPORATION
- DENSO WAVE Incorporated
- Bosch Rexroth AG
- Rockwell Automation, Inc.
- SIEMENS AG

#### [Manufacturers supporting stepper motors]

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

\*Refer to separate catalog CB-055A.



Slider

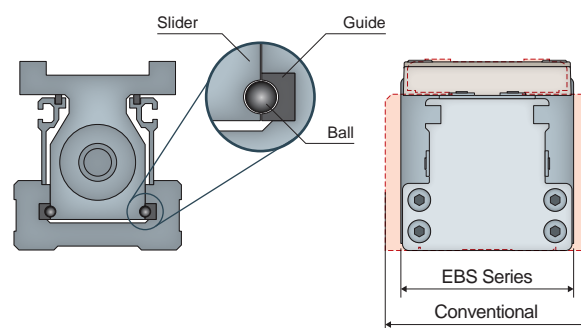
## EBS-M/G Series

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.



		Conventional product	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

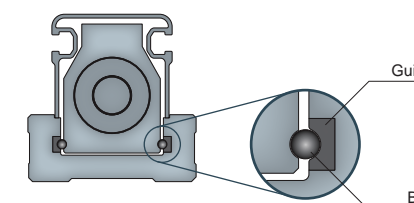
## EBR-M/G Series

For press fitting and hoisting

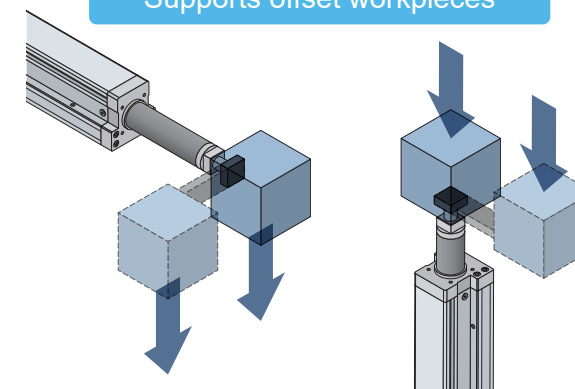
### Reduces need for additional guides

#### Rod with built-in guide

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



Supports offset workpieces

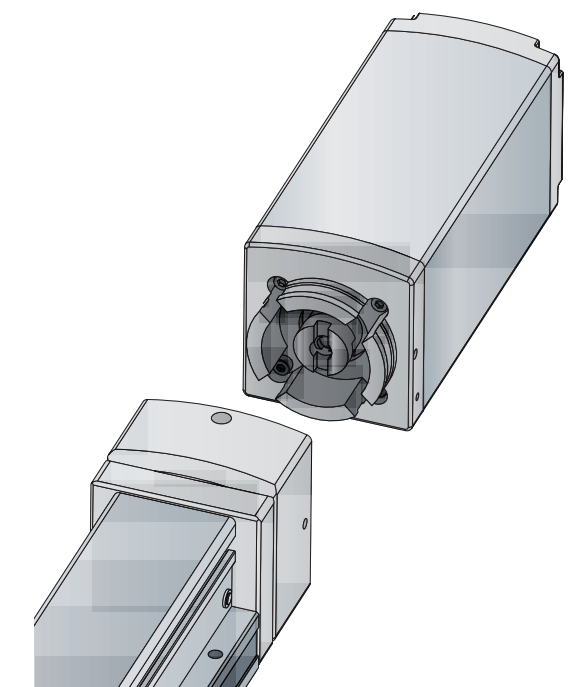


### Simple maintenance

#### Replaceable motor unit

The motor unit can be removed. If something goes wrong, the issue can be resolved by simply replacing the motor.

\*EBS-M, EBR-M and ECR are only supported.





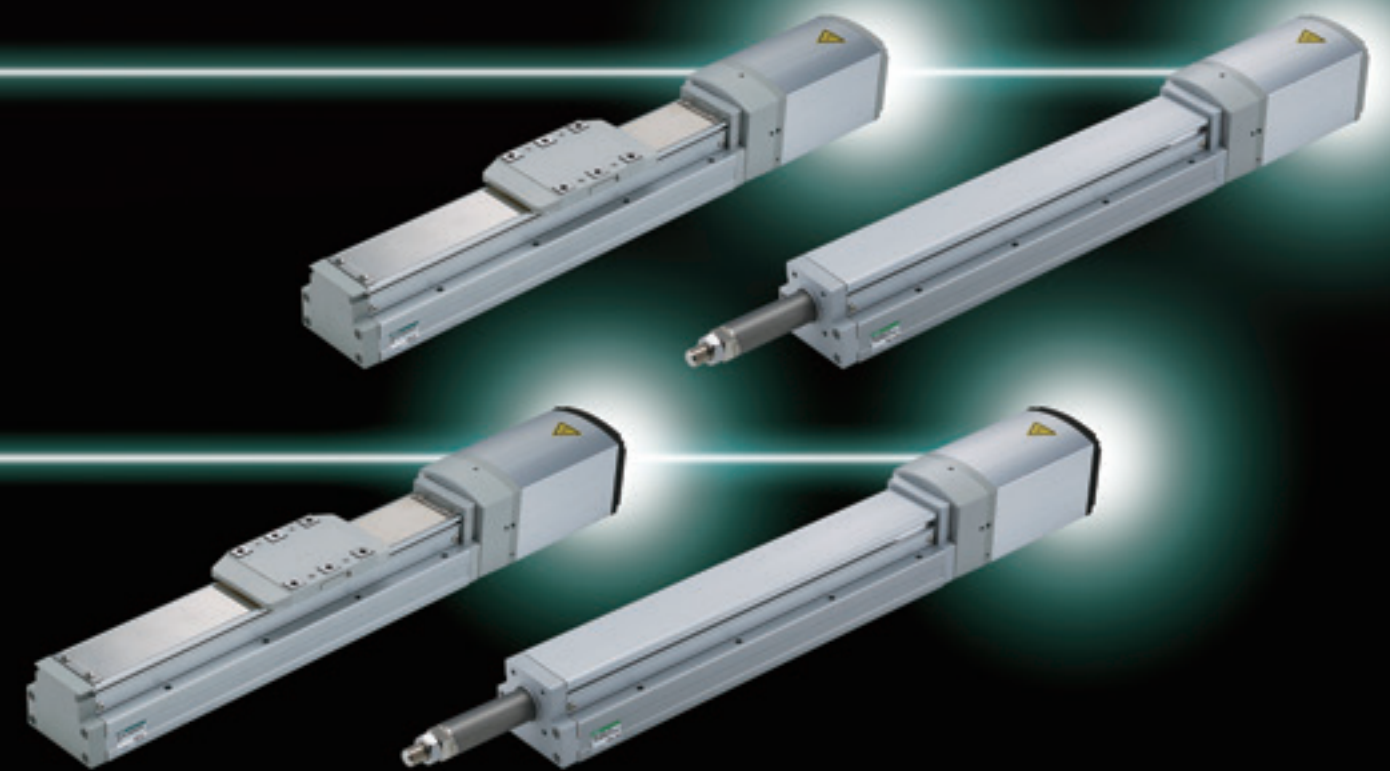
Controller

**ECR Series**

**ECG Series**



**A new controller for every actuator model and size**

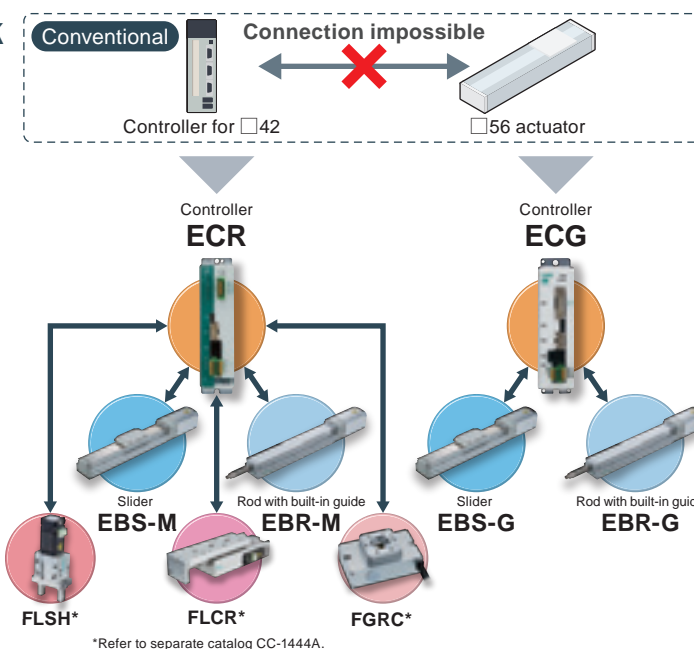


**Reduced initial work hours and stock**

**Original functions available for a variety 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, as well as inventory can be reduced.

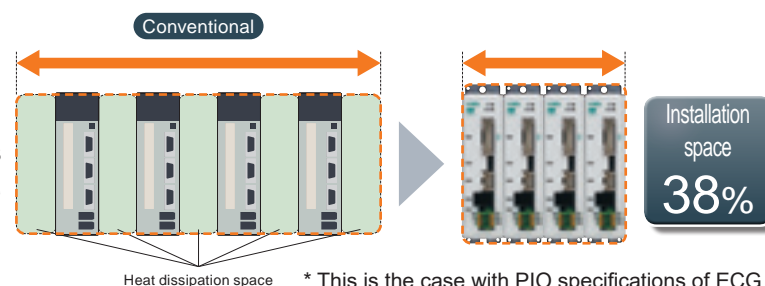
\* Compatible with 5 models of ECR and 2 models of ECG.



**Reduced controller footprint**

**Compact, allowing adjacent installation**

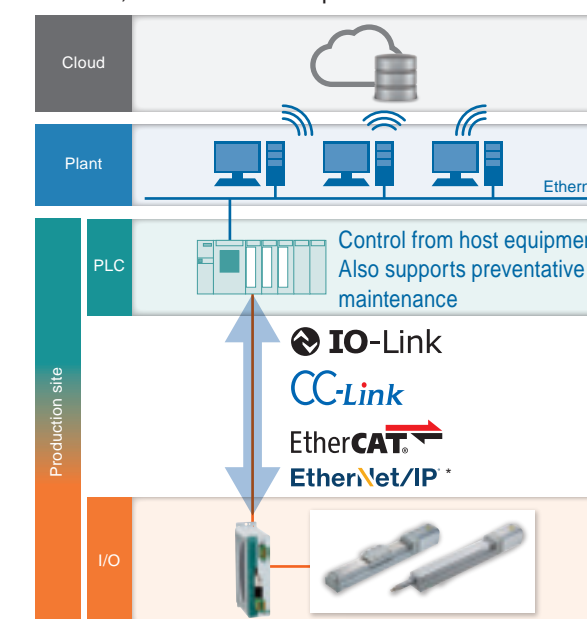
The optimized design eliminates the need for heat dissipation space at the sides. This allows controllers to be installed next to one another.



**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.



\* Only ECR supported.

**Abundant wiring configurations**

Supports a wide range of line, star and ring wiring for EtherNet/IP. Select as needed for your application.

**Reduces adjustment time**

**Easy setup with "S-Tools" software**

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

