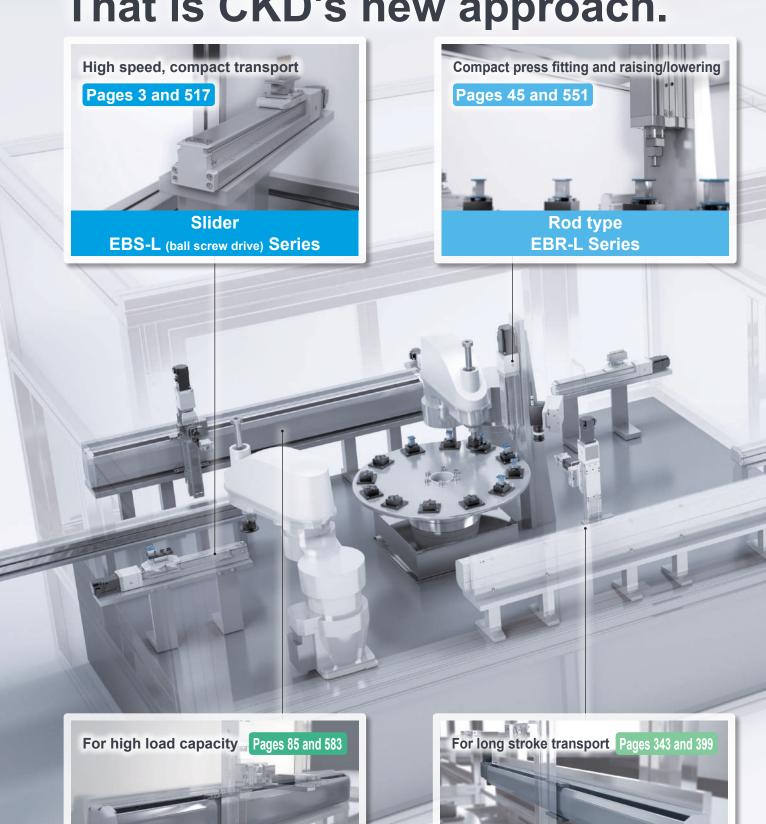
Compatible with all device applications and compact and efficient.

That is CKD's new approach.



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

specifications. Making devices more



List of supported	EBS-L	ETS/ECS/	FKS-I	
motor manufacturers	EBR-L	ETV/ECV	ENS-L	
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		• *1		
Bosch Rexroth AG				
Rockwell Automation, Inc.				
SIEMENS AG				
44.0.1				

List of supported stepper	EBS-L	ETS
motor manufacturers	EBR-L	ECS
Oriental Motor Co., Ltd.		
MinebeaMitsumi Inc.		
Dyadic Systems Co., Ltd.		

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

*1 Only compatible with metal stopper specifications (ETS-X).

EBS-L/EBR-L Series

- Industry standard models
- Repeatability ±0.01 mm
- Supports various industries

Versatility



High load capacity

ETS/ECS Series

- Max. load capacity: 150 kg (horizontal)
- Repeatability ±0.01 mm
- Line-up for low dust generation specs.
- Supports various industries

Wide variety



Long stroke length

ETV/ECV Series

- Max. stroke length: 3500 mm
- Line-up for low dust generation specifications
- Supports various industries

High precision



EKS-L Series

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

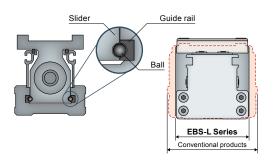
Short tact



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.



	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
	1	1	1	1
	11 mm	28 %	47 %	92 %

More

More

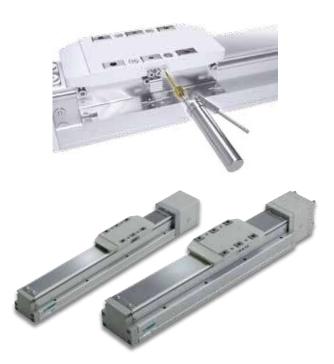
Less

More

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.



ROBODEX Std.



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.

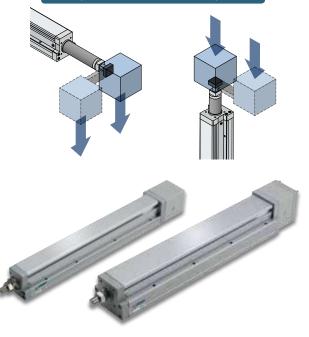


Reduces the necessity for attached guides

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.







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 dog

ROBODEX Std.





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.























Left mounting Top left mounting Bottom left mounting Top right mounting Bottom right mounting * The images above use sizes ETS-10 and above

Accurate origin positioning is possible

Equipped with metal stoppers

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



ETS

Slider

ETS Multi Axis Series

Ideal for multi-axis operation suited to the application Multiple models suited to a wide variety of specifications.



Max. load capacity: 50 kg

6 Sizes





Max. load capacity: 50 kg

2 Sizes



P type (X-Z axes)

Max. load capacity: 35 kg



F type (X-Y axes)

Max. load capacity: 22 kg

3 Sizes



^{*} Compatible with sizes ETS-06 and above.

P4 Series







Suited to the rechargeable battery manufacturing processes

·····Catalog No. ▶ CC-1431A	EKS	EBR	EBS	
Catalog No. ▶ CC-1283A		ECS	ETS	

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



For Food Manufacturing Processes

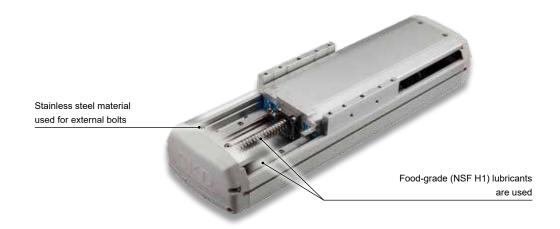
FP1 Series



Ideal for the foodstuffs industry

EBS	EBR	EKS		·······Catalog No. ▶ CC-1430A
ETS	ECS	ETV	ECV	·······Catalog No. ▶ CC-1320A

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



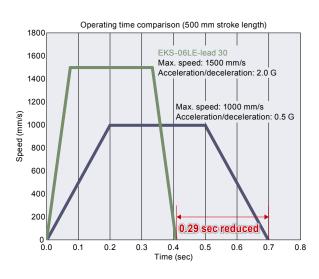
ROBODEX Std.



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.

