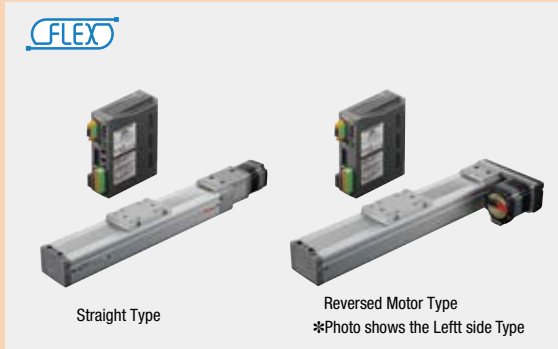


Electric Linear Slides

EZS Series α STEP AZ Equipped



The **EZS** series contains compact linear slides that are highly rigid and have a simple dust-resistant structure. Motors from the α STEP AZ series are equipped. Electric linear slides actualize the unique advantages of stepper motors, such as high response, low vibration, and no hunting. Straight type and reversed motor type variations are available to match your installation space.

- High rigidity and compact guide
- Space saving by using reversed motors
- Simple dust-resistant structure prevent dust and other foreign objects from entering



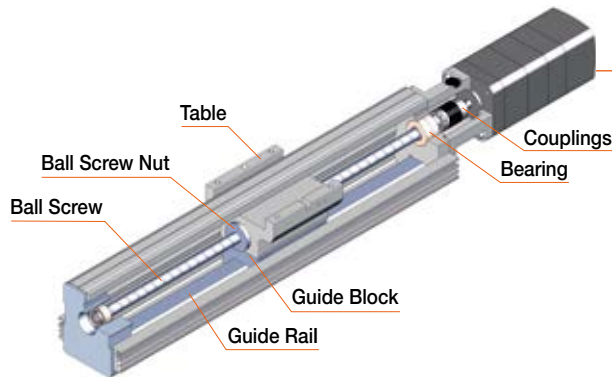
See Full Product Details Online
www.orientalmotor.com

- Manual
- Specifications
- Dimensions
- CAD
- Characteristics
- Connection and Operation

Features

Wide Variety of Products to Match Installation Spaces and Environments

This series is a compact, lightweight electric linear slide that employs a highly rigid, slim LM Guide. A high permissible moment is possible due to the rigidity of the guide. Various products equipped with α STEP AZ Series motors are available.



α STEP AZ Series

- Battery-Free, Absolute Sensor Equipped
- Positioning Information is Available without a Sensor
- High Reliability with Closed Loop Control
- High Efficiency Technology Reduces Motor Heat Generation and Saves Energy



Built-in Controller Type



Pulse Input Type

Selection of Electric Linear Slides

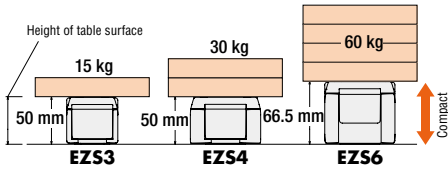
Product Width × Height	Power Supply Voltage	Lead Screw Pitch [mm]	Stroke [mm]							Maximum Speed [mm/s]			Upper Level: Dynamic Permissible Moment [N·m] Lower Level: Static Permissible Moment [N·m]		
			100	200	300	400	500	600	700	800	900	200	400	600	800
EZS3 54 × 50 mm	Single-Phase 100-120 VAC Single-Phase/Three-Phase 200-240 VAC	12	50~700							800			4.2	4.2	10.5
		6	50~700							400			26.4	26.4	52.0
	24/48 VDC	12	50~700							600			4.2	4.2	10.5
		6	50~700							300			26.4	26.4	52.0
EZS4 74 × 50 mm	Single-Phase 100-120 VAC Single-Phase/Three-Phase 200-240 VAC	12	50~700							800			8	8	27.8
		6	50~700							400			51.2	42.5	176
	24/48 VDC	12	50~700							600			8	8	27.8
		6	50~700							300			51.2	42.5	176
EZS6 74 × 66.5 mm	Single-Phase 100-120 VAC Single-Phase/Three-Phase 200-240 VAC	12	50~850							800			45.7	37.5	55.6
		6	50~850							400			290	187	340
	24/48 VDC	12	50~850							600			45.7	37.5	55.6
		6	50~850							300			290	187	340

*The parentheses () indicate the specifications for the reversed motor type.

High Transportable Mass · High Permissible Moment

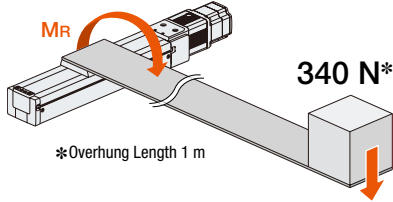
Even with the compact motor, a high permissible moment is possible due to the rigidity of the guide.

● Slim Body with High Transportable Mass



● High Permissible Moment

A high load moment is achieved from a compact body.



*The load value was calculated using the static permissible moment 340 N·m for **EZS6**.

● Permissible Moment in Rolling Directions [N·m]

Frame Size	Static Permissible Moment*1	Dynamic Permissible Moment*2
EZS3	52.0	10.5
EZS4	176	27.8
EZS6	340	55.6

*1 Load moment that the linear guide can support while the motor is stopped.

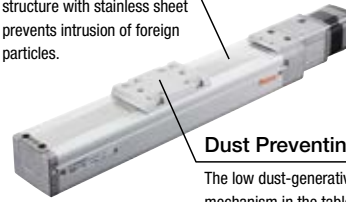
*2 Load moment that the linear guide can support while the motor is in operation.

Simple Dust-Resistant Structure

The simple dust-resistant structure made from a stainless sheet and the roller mechanism in the table part prevent dust and other foreign particles from entering.

Keeps Out Foreign Objects

Simple dust-resistant structure with stainless sheet prevents intrusion of foreign particles.

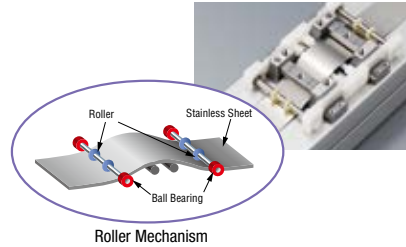


Dust Preventing Structure

The low dust-generative roller mechanism in the table part helps to prevent the generation of dust via friction with the stainless sheet.

● Low Dust-Generative Roller Mechanism (Patented)

The low dust-generative roller mechanism in the table part rotates smoothly against the stainless sheet to prevent the generation of dust via friction. In addition to dust prevention, it increases the durability of the stainless sheet.



Roller Mechanism

Overview

α STEP Absolute AZ

Linear Slides α STEP EZS

Cylinders α STEP EAC

Cylinders α STEP DRS2

Rotary Actuators α STEP DGI

α STEP AR

	Horizontal Transportable Mass [kg]								Vertical Transportable Mass [kg]			Repetitive Positioning Accuracy [mm]	Reference Page
	10	20	30	40	50	60	70	80	10	20	30		
7.5									3.5			±0.02	F-12
15									7				
7.5									3.5				
15									7				
15									7				
30									14(12.5)*				
15									7				
30									14(12.5)*				
30									15				
60									30				
30									15				
60									30				