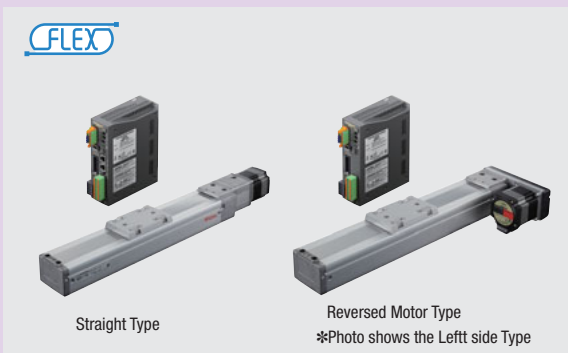


Electric Linear Slides EVS Series α STEP AZ/AR Equipped

<Additional Information>
 ● Technical reference → Page H-1
 ● Regulations & Standards → Page I-2



The **EVS** series contains compact linear slides that are highly rigid and have a simple dust-resistant structure. Motors from the α STEP **AZ** series or **AR** 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
- For Cleanroom Use

FLEX What is FLEX?

FLEX is the collective name for products that support I/O control, Modbus (RTU) control, and FA network control via network converters.

These products enable simple connection and simple control, shortening the total lead time for system construction.

Overview, Product Series

Electric Linear Slides

α STEP AZ/AR EAS

α STEP AZ/AR EVS

Electric Cylinders

α STEP AZ/AR EAC

Compact Linear Actuators

α STEP AZ DRS2

DRLII

Installation

Hollow Rotary Actuators

α STEP AZ/AR DGII

Accessories

Features

Wide Variety of Products to Match Installation Spaces and Environments

Slim, high accuracy, and high rigidity slides and the product line includes reversed motor types with shorter overall length. Standard motor of **AZ** Series or **AR** Series are equipped. Various products are available.

Motor Type

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

α STEP AR Series

- High Reliability with Closed Loop Control
- High Efficiency Technology Reduces Motor Heat Generation and Saves Energy



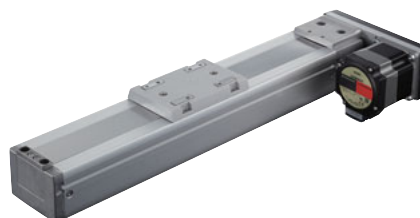
Built-in Controller Type

Pulse Input Type

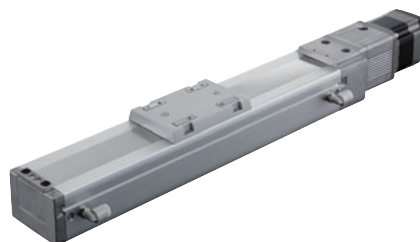
Linear Slides



Straight Type



Reversed Motor Type



For Cleanroom Use

● This photo shows **EVS6** (Width 74 mm × Height 66.5 mm).

High Rigidity · High Accuracy

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

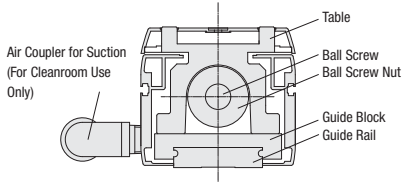
● High Rigidity, High Accuracy Guide

The guides used on linear slides are LM Guide*1 made by THK. The slim, stainless guide increases the load moment. And the highly accurate guide enables traveling parallelism*2 of 0.03 mm or less.

*1 This is a Registered trademark of THK.
*2 For a traveling parallelism, see page H-61.

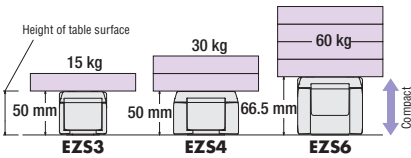
α STEP
AZ
Equipped

α STEP
AR
Equipped



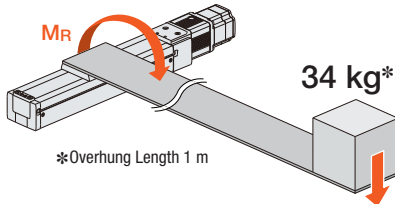
Traveling Parallelism of 0.03 mm or Less

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

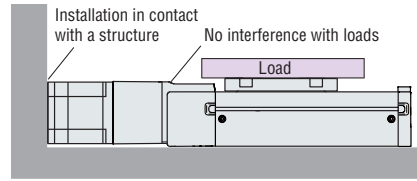
*1 Load moment that the linear guide can support while the motor is stopped.

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

Space Saving

Effective utilization of the installation space is possible because the body does not interfere with the loads.

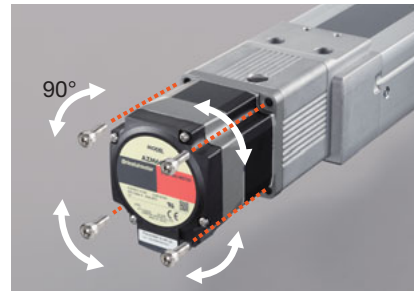
Installation in contact with another structure is possible.



● Cable Outlet Can be Rotated

The motor can be rotated and installed in 4 possible directions*, so the direction of the cable outlet can be changed to match the installation location.

* Reversed motor type can be rotated in 3 possible directions.

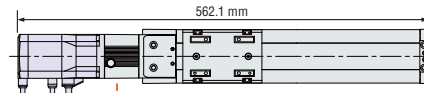


● Reversed Motor Type

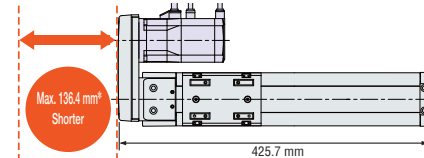
The length of the reversed motor type is up to 136.4 mm shorter than the straight type. This contributes to space saving with equipment.

AZ Series
EZS6 With Electromagnetic Brake Stroke 200 mm

● Straight Type



● Reversed Motor Type



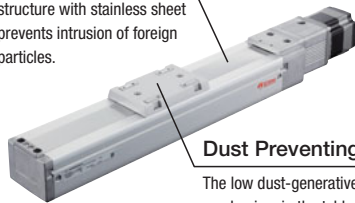
*When electromagnetic brake is installed

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.

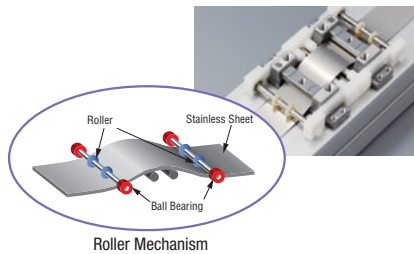


Dust Preventing Structure

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

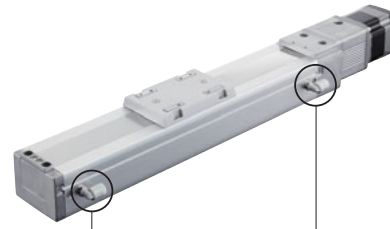
Low Dust-Generative Roller Mechanism (Patented)

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.



For Cleanroom Use

With the low dust-generative roller mechanism and clean grease, a clean degree of ISO Standard Class 3* (equivalent to FED Standard Class 1) has been achieved.



Air Coupler for Suction
Clean degree of Class 3 is achieved by using a suction pump.

* ISO Standard Class 3
[ISO Standard Class 3]

Particle Diameter [μm]	0.1	0.3	0.5
Dust-Generation Amount [pieces/m ³]	1000 or less	102 or less	35 or less

Low Dust-Generative Clean Grease

Low dust-generative clean grease is used on the ball screw, guides, bearing etc.



Roller bearings in the table



Ball screw and guides

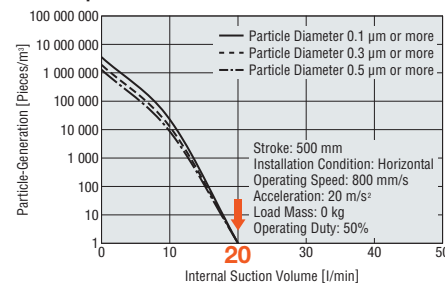
Uses low dust-generative clean grease

For details about grease, refer to page H-35.

Clean Degree of Class 3 is Achieved with Minimum Suction

For example, **EZS3** can achieve the clean degree of ISO Standard Class 3, when the internal suction volume is approximately 20 l/min or more.

Correlation Diagram of Particle-Generation and Suction Volume Example **EZS3CL-D050 EZS3CR-D050**



By minimizing amount of suction by the pump, power consumption can also be reduced.

ISO Standard Internal suction volume that meets the clean degree of Class 3.

Type	EZS3	EZS4	EZS6
Internal Suction Volume [l/min]	20	30	30

For the correlation diagram of dust-generation and suction amount for **EZS4** and **EZS6**, refer to page H-62.

Overview, Product Series

Electric Linear Slides

Q_SSTEP AZ/AR EAS

Q_SSTEP AZ/AR EZS

Electric Cylinders

Q_SSTEP AZ/AR EAC

Compact Linear Actuators

Q_SSTEP AZ DRS2

DRLII

Installation

Hollow Rotary Actuators

Q_SSTEP AZ/AR DGII

Accessories

High Speed Driving with Light Load or Heavy Load

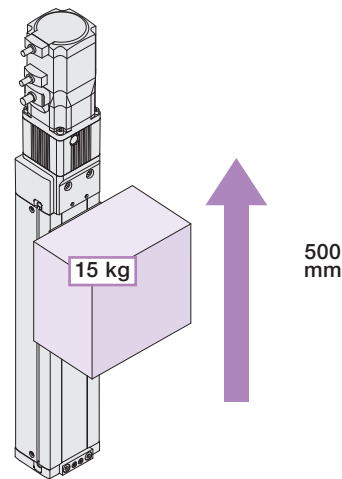
Only at Oriental Motor!

The positioning time, operating speed and acceleration can all be easily determined. The product can be selected while estimating the movement from the same graph, even under changing operating conditions such as no load or inching.

Let our technical team help find the right actuator based on your profile demands.

Example Product:
Product Name: **EZS6**
Lead Screw Pitch: 6 mm
Power Supply Input: 230 VAC

Example Operation:
Load Mass: 15 kg
Positioning Distance: 500 mm
Drive Direction: Vertical



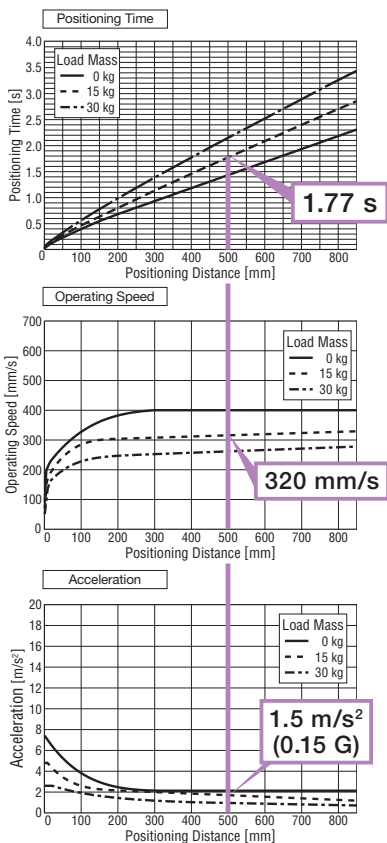
α STEP
AZ
Equipped

α STEP
AR
Equipped

High-Speed with a Heavy Load

High-speed is possible when transporting a heavy load in a vertical direction.

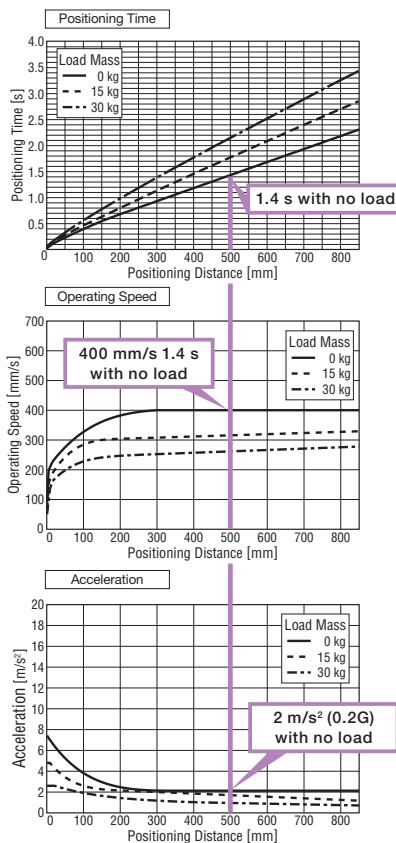
Load Mass: 15 kg
Positioning Distance: 500 mm
Positioning Time: 1.77 s
Operating Speed: 320 mm/s
Acceleration: 1.5 m/s² (0.15 G)



High-Speed with a Light Load

Operation is possible at an even higher speed when the load is absent, for example on the return.

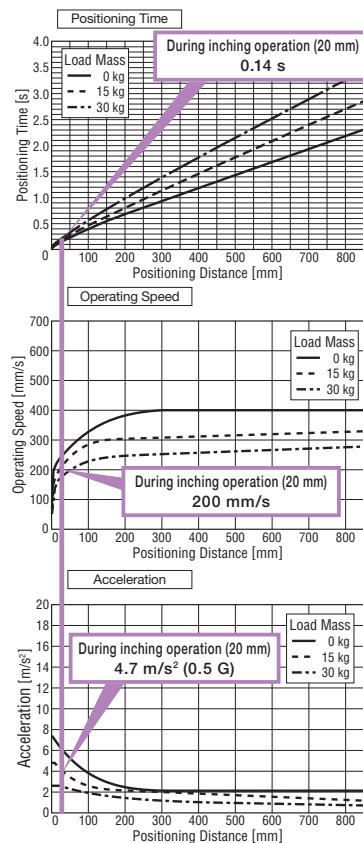
Load Mass: 0 kg
Positioning Distance: 500 mm
Positioning Time: 1.4 s
Operating Speed: 400 mm/s
Acceleration: 2 m/s² (0.2 G)



High-Speed during Inching Operation

Operation is possible at high speed during inching operation over short distances.

Load Mass: 15 kg
Positioning Distance: 20 mm
Positioning Time: 0.14 s
Operating Speed: 200 mm/s
Acceleration: 4.7 m/s² (0.5 G)



2 Driver Types Available to Match the System Configuration

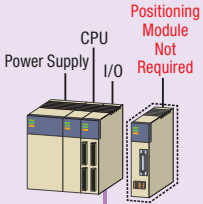
Built-in Controller Type **C-FLEX**

With this type, the operating data is set in the driver, and is then selected and executed from the host system. Host system connection and control are performed with any of the following: I/O, Modbus (RTU), RS-485, or FA network. By using a network converter (sold separately), CC-link, MECHATROLINK or EtherCAT communication are possible.

C-FLEX


FLEX is the collective name for products that support I/O control, Modbus (RTU) control, and FA network control via network converters. These products enable simple connection and simple control, shortening the total lead time for system construction.

● When Controlling with I/O



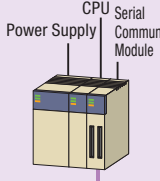
I/O

● When Controlling from Computer or Touch Screen



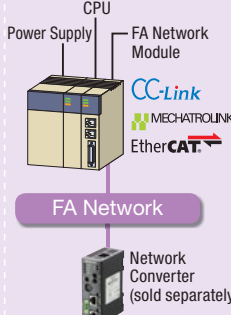
Modbus (RTU)

● When Controlling with Serial Communication




Modbus (RTU)

● When Controlling with FA Network



RS-485

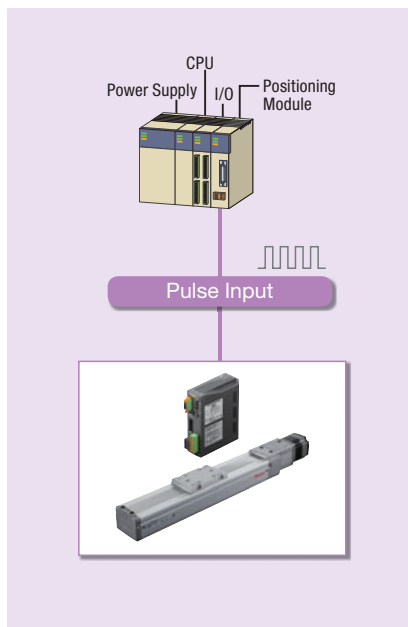


Because the driver has the information necessary for motor operation, the burden on the host PLC is reduced. The system configuration when using multi-axis control has been simplified. Setting can be done by data setting software or RS-485 communication.

- **CC-Link** is a registered trademark of CC-Link Partner Association and **MECHATROLINK** is a registered trademark of MECHATROLINK Members Association.
- **EtherCAT** is registered trademark licensed by Beckhoff Automation GmbH, Germany.

Pulse Input Type

This type executes operations by inputting pulses into the driver. It controls the motor using a positioning module (pulse generator).



Overview, Product Series

Electric Linear Slides

QSTEP AZ/AR EAS

QSTEP AZ/AR EZS

Electric Cylinders

QSTEP AZ/AR EAC

Compact Linear Actuators

QSTEP AZ DRS2

DRLII

Installation

Hollow Rotary Actuators

QSTEP AZ/AR DGII

Accessories

Set and Operate Easily from a PC

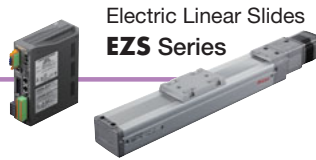
By using the data setting software **MEXE02**, data setting, saving, actual operation, and confirmation via each monitor function can be performed easily on a computer.

α STEP
AZ
Equipped

Data Setting Software **MEXE02**

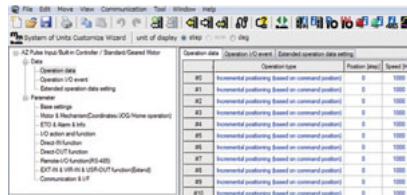
The data setting software **MEXE02** can be downloaded from the website.

α STEP
AR
Equipped



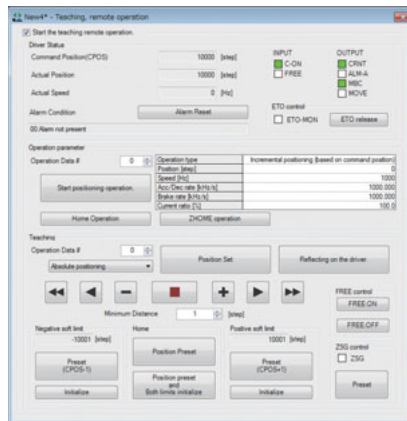
Operating Data/Parameter Settings

You can easily set and save the operating data and parameters on a computer. And then by forwarding the saved data when you replace the driver, etc. the settings will be the same.



Teaching and Remote Operation

Data setting software can be used to drive the motor. This can be used for teaching or test drive purposes.



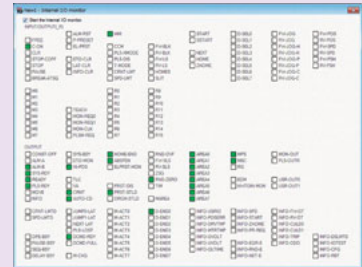
Multi-Monitoring Compatible

Multi-monitoring enables remote operation or teaching while monitoring.

Various Monitoring Functions

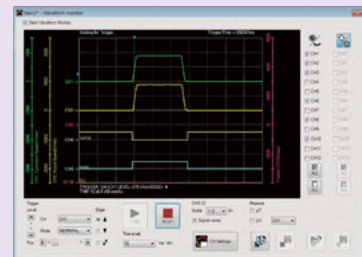
I/O Monitoring

The status of the I/O wired to the driver can be checked on a computer. This can be used for post-wiring I/O checks or I/O checks during operation.



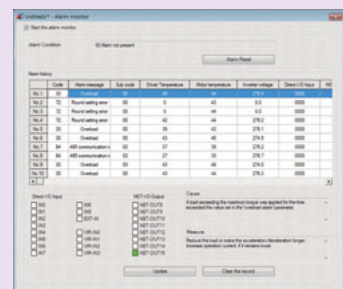
Waveform Monitoring

The operating status of the motor (such as command speed and motor load factor) can be checked from an oscilloscope-like image. This can be used for equipment start-up and adjustment.



Alarm Monitoring

When an abnormality occurs, the details of the abnormality and the solution can be checked.

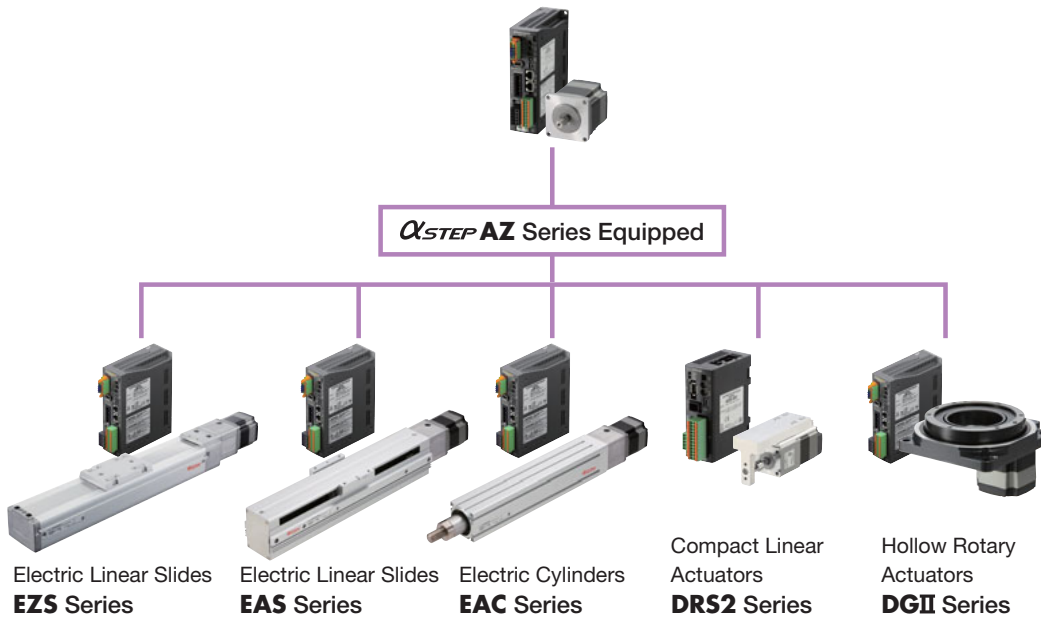


Standardized Wiring, Control, and Maintenance Parts

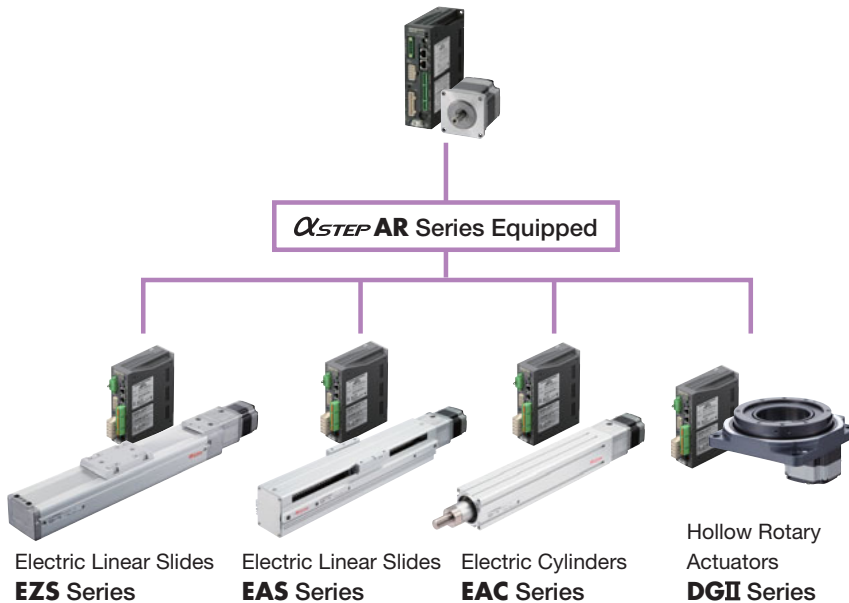
Various mechanical components equipped with **αSTEP AZ Series** and **αSTEP AR Series** are available.

Wiring, control, and maintenance parts have been standardized, since the same motors and drivers are equipped, which reduces the startup time and simplifies operation.

Battery-Free, Absolute Sensor Equipped
αSTEP AZ Series



αSTEP AR Series



Merits of Standardization

● **Wiring Standardization**

Labor used for electrical design and wiring can be saved, since the I/O pin assignment is the same.

● **Control Standardization**

These products can be operated via the same method, since the control method is the same. For the network control, the remote I/O and the command code are also the same. The labor of making the program can be eliminated.

● **Maintenance Parts Standardization**

Maintenance parts can be minimized, since the motor, driver, and cable are common to all. Management costs (parts cost, management space) can be reduced.



Overview, Product Series

Electric Linear Slides

αSTEP AZ/AR EAS

αSTEP AZ/AR EZS

Electric Cylinders

αSTEP AZ/AR EAC

Compact Linear Actuators

αSTEP AZ DRS2

DRLII

Installation

Hollow Rotary Actuators

αSTEP AZ/AR DGII

Accessories

Product Line

● AC Input

◇ Product Number (Straight Type/Reversed Motor Type)

① Series Name	② Motor Orientation	④ Lead Screw Pitch	⑤ Stroke	⑥ Motor	⑦ Motor Type	⑧ Power Supply Input*1	⑨ Driver Type	⑩ Connection Cable*2
EZS3	L	D	005	AZ	A	C	D	1
EZS3 EZS4 EZS6	L: Reversed Motor Type (Left Side) R: Reversed Motor Type (Right Side) Blank: Straight Type	D: 12 mm E: 6 mm	005: 50 mm 010: 100 mm 015: 150 mm ~ 085: 850 mm (50 mm increments)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	C: Single-Phase 200-240 VAC	D: Built-in Controller Type Blank: Pulse Input Type	Number: Included Connection Cable Length 1: 1 m 2: 2 m 3: 3 m Blank: Connection cable is not included

*1 For the single-phase 100-120 VAC models and three-phase 200-240 VAC models, please contact the nearest Oriental Motor sales office.

*2 Connection cables longer than 3 m are available as accessories (sold separately).

Connection Cable Set → Page E-258

◇ **EZS3** Straight Type/Reversed Motor Type

The prices are the same even if the ② motor orientation (L, R, Blank) or ④ lead screw pitch (D, E) are different.

⑨ Driver Type (D, Blank)	Built-in Controller Type (D)				Pulse Input Type (Blank)				
	Single Shaft (A)		With Electromagnetic Brake (M)		Single Shaft (A)		With Electromagnetic Brake (M)		
⑦ Motor Type (A, M)	Included (1, 2, 3)		Not Included		Included (1, 2, 3)		Not Included		
⑩ Connection Cable (1, 2, 3, Blank)	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	
⑤ Stroke	50 mm (005)	€1,141.00	€1,111.00	€1,299.00	€1,269.00	€1,091.00	€1,061.00	€1,249.00	€1,219.00
	100 mm (010)	€1,141.00	€1,111.00	€1,299.00	€1,269.00	€1,091.00	€1,061.00	€1,249.00	€1,219.00
	150 mm (015)	€1,163.00	€1,133.00	€1,322.00	€1,292.00	€1,113.00	€1,083.00	€1,272.00	€1,242.00
	200 mm (020)	€1,163.00	€1,133.00	€1,322.00	€1,292.00	€1,113.00	€1,083.00	€1,272.00	€1,242.00
	250 mm (025)	€1,186.00	€1,156.00	€1,344.00	€1,314.00	€1,136.00	€1,106.00	€1,294.00	€1,264.00
	300 mm (030)	€1,186.00	€1,156.00	€1,344.00	€1,314.00	€1,136.00	€1,106.00	€1,294.00	€1,264.00
	350 mm (035)	€1,209.00	€1,179.00	€1,367.00	€1,337.00	€1,159.00	€1,129.00	€1,317.00	€1,287.00
	400 mm (040)	€1,209.00	€1,179.00	€1,367.00	€1,337.00	€1,159.00	€1,129.00	€1,317.00	€1,287.00
	450 mm (045)	€1,231.00	€1,201.00	€1,389.00	€1,359.00	€1,181.00	€1,151.00	€1,339.00	€1,309.00
	500 mm (050)	€1,231.00	€1,201.00	€1,389.00	€1,359.00	€1,181.00	€1,151.00	€1,339.00	€1,309.00
	550 mm (055)	€1,254.00	€1,224.00	€1,412.00	€1,382.00	€1,204.00	€1,174.00	€1,362.00	€1,332.00
	600 mm (060)	€1,254.00	€1,224.00	€1,412.00	€1,382.00	€1,204.00	€1,174.00	€1,362.00	€1,332.00
	650 mm (065)	€1,276.00	€1,246.00	€1,435.00	€1,405.00	€1,226.00	€1,196.00	€1,385.00	€1,355.00
	700 mm (070)	€1,276.00	€1,246.00	€1,435.00	€1,405.00	€1,226.00	€1,196.00	€1,385.00	€1,355.00

◇ **EZS4** Straight Type/Reversed Motor Type

The prices are the same even if the ② motor orientation (L, R, Blank) or ④ lead screw pitch (D, E) are different.

⑨ Driver Type (D, Blank)	Built-in Controller Type (D)				Pulse Input Type (Blank)				
	Single Shaft (A)		With Electromagnetic Brake (M)		Single Shaft (A)		With Electromagnetic Brake (M)		
⑦ Motor Type (A, M)	Included (1, 2, 3)		Not Included		Included (1, 2, 3)		Not Included		
⑩ Connection Cable (1, 2, 3, Blank)	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	
⑤ Stroke	50 mm (005)	€1,175.00	€1,145.00	€1,333.00	€1,303.00	€1,125.00	€1,095.00	€1,283.00	€1,253.00
	100 mm (010)	€1,175.00	€1,145.00	€1,333.00	€1,303.00	€1,125.00	€1,095.00	€1,283.00	€1,253.00
	150 mm (015)	€1,197.00	€1,167.00	€1,356.00	€1,326.00	€1,147.00	€1,117.00	€1,306.00	€1,276.00
	200 mm (020)	€1,197.00	€1,167.00	€1,356.00	€1,326.00	€1,147.00	€1,117.00	€1,306.00	€1,276.00
	250 mm (025)	€1,220.00	€1,190.00	€1,378.00	€1,348.00	€1,170.00	€1,140.00	€1,328.00	€1,298.00
	300 mm (030)	€1,220.00	€1,190.00	€1,378.00	€1,348.00	€1,170.00	€1,140.00	€1,328.00	€1,298.00
	350 mm (035)	€1,243.00	€1,213.00	€1,401.00	€1,371.00	€1,193.00	€1,163.00	€1,351.00	€1,321.00
	400 mm (040)	€1,243.00	€1,213.00	€1,401.00	€1,371.00	€1,193.00	€1,163.00	€1,351.00	€1,321.00
	450 mm (045)	€1,265.00	€1,235.00	€1,423.00	€1,393.00	€1,215.00	€1,185.00	€1,373.00	€1,343.00
	500 mm (050)	€1,265.00	€1,235.00	€1,423.00	€1,393.00	€1,215.00	€1,185.00	€1,373.00	€1,343.00
	550 mm (055)	€1,288.00	€1,258.00	€1,446.00	€1,416.00	€1,238.00	€1,208.00	€1,396.00	€1,366.00
	600 mm (060)	€1,288.00	€1,258.00	€1,446.00	€1,416.00	€1,238.00	€1,208.00	€1,396.00	€1,366.00
	650 mm (065)	€1,310.00	€1,280.00	€1,469.00	€1,439.00	€1,260.00	€1,230.00	€1,419.00	€1,389.00
	700 mm (070)	€1,310.00	€1,280.00	€1,469.00	€1,439.00	€1,260.00	€1,230.00	€1,419.00	€1,389.00

◇ **EZS6** Straight Type/Reversed Motor Type

The prices are the same even if the ② motor orientation (L, R, Blank) or ④ lead screw pitch (D, E) are different.

⑨ Driver Type (D, Blank)	Built-in Controller Type (D)				Pulse Input Type (Blank)				
	Single Shaft (A)		With Electromagnetic Brake (M)		Single Shaft (A)		With Electromagnetic Brake (M)		
⑦ Motor Type (A, M)	Included (1, 2, 3)		Not Included		Included (1, 2, 3)		Not Included		
⑩ Connection Cable (1, 2, 3, Blank)	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	
⑤ Stroke	50 mm (005)	€1,404.00	€1,374.00	€1,608.00	€1,578.00	€1,354.00	€1,324.00	€1,558.00	€1,528.00
	100 mm (010)	€1,404.00	€1,374.00	€1,608.00	€1,578.00	€1,354.00	€1,324.00	€1,558.00	€1,528.00
	150 mm (015)	€1,427.00	€1,397.00	€1,630.00	€1,600.00	€1,377.00	€1,347.00	€1,580.00	€1,550.00
	200 mm (020)	€1,427.00	€1,397.00	€1,630.00	€1,600.00	€1,377.00	€1,347.00	€1,580.00	€1,550.00
	250 mm (025)	€1,449.00	€1,419.00	€1,653.00	€1,623.00	€1,399.00	€1,369.00	€1,603.00	€1,573.00
	300 mm (030)	€1,449.00	€1,419.00	€1,653.00	€1,623.00	€1,399.00	€1,369.00	€1,603.00	€1,573.00
	350 mm (035)	€1,472.00	€1,442.00	€1,675.00	€1,645.00	€1,422.00	€1,392.00	€1,625.00	€1,595.00
	400 mm (040)	€1,472.00	€1,442.00	€1,675.00	€1,645.00	€1,422.00	€1,392.00	€1,625.00	€1,595.00
	450 mm (045)	€1,495.00	€1,465.00	€1,698.00	€1,668.00	€1,445.00	€1,415.00	€1,648.00	€1,618.00
	500 mm (050)	€1,495.00	€1,465.00	€1,698.00	€1,668.00	€1,445.00	€1,415.00	€1,648.00	€1,618.00
	550 mm (055)	€1,517.00	€1,487.00	€1,721.00	€1,691.00	€1,467.00	€1,437.00	€1,671.00	€1,641.00
	600 mm (060)	€1,517.00	€1,487.00	€1,721.00	€1,691.00	€1,467.00	€1,437.00	€1,671.00	€1,641.00
	650 mm (065)	€1,540.00	€1,510.00	€1,743.00	€1,713.00	€1,490.00	€1,460.00	€1,693.00	€1,663.00
	700 mm (070)	€1,540.00	€1,510.00	€1,743.00	€1,713.00	€1,490.00	€1,460.00	€1,693.00	€1,663.00
	750 mm (075)	€1,562.00	€1,532.00	€1,766.00	€1,736.00	€1,512.00	€1,482.00	€1,716.00	€1,686.00
	800 mm (080)	€1,562.00	€1,532.00	€1,766.00	€1,736.00	€1,512.00	€1,482.00	€1,716.00	€1,686.00
850 mm (085)	€1,585.00	€1,555.00	€1,789.00	€1,759.00	€1,535.00	€1,505.00	€1,739.00	€1,709.00	

◆ Product Number (For Cleanroom Use)

① Series Name	③ Direction of Air Coupler for Suction* ¹	④ Lead Screw Pitch	⑤ Stroke	⑥ Motor	⑦ Motor Type	⑧ Power Supply Input* ²	⑨ Driver Type	⑩ Connection Cable* ³
EZS3	CL	D	005	AZ	A	C	D	I
EZS3 EZS4 EZS6	CL: Left Direction CR: Right Direction	D: 12 mm E: 6 mm	005: 50 mm 010: 100 mm 015: 150 mm 085: 850 mm (50 mm increments)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	C: Single-Phase 200-240 VAC	D: Built-in Controller Type Blank: Pulse Input Type	Number: Included Connection Cable Length 1: 1 m 2: 2 m 3: 3 m Blank: Connection cable is not included

*1 Only straight type is compatible for Cleanroom Use. For Cleanroom Use products, the direction of air coupler for suction is required.

*2 For the single-phase 100-120 VAC models and three-phase 200-240 VAC models, please contact the nearest Oriental Motor sales office.

*3 Connection cables longer than 3 m are available as accessories (sold separately).

Connection Cable Set → Page E-258

◆ EZS3 For Cleanroom Use

The prices are the same even if the ③ direction of air coupler for suction (**CL, CR**) or ④ lead screw pitch (**D, E**) are different.

⑨ Driver Type (D , Blank)	Built-in Controller Type (D)				Pulse Input Type (Blank)				
	Single Shaft (A)		With Electromagnetic Brake (M)		Single Shaft (A)		With Electromagnetic Brake (M)		
⑦ Motor Type (A, M)	Single Shaft (A)		With Electromagnetic Brake (M)		Single Shaft (A)		With Electromagnetic Brake (M)		
⑩ Connection Cable (1, 2, 3 , Blank)	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	
⑤ Stroke	50 mm (005)	€1,254.00	€1,224.00	€1,412.00	€1,382.00	€1,204.00	€1,174.00	€1,362.00	€1,332.00
	100 mm (010)	€1,254.00	€1,224.00	€1,412.00	€1,382.00	€1,204.00	€1,174.00	€1,362.00	€1,332.00
	150 mm (015)	€1,276.00	€1,246.00	€1,435.00	€1,405.00	€1,226.00	€1,196.00	€1,385.00	€1,355.00
	200 mm (020)	€1,276.00	€1,246.00	€1,435.00	€1,405.00	€1,226.00	€1,196.00	€1,385.00	€1,355.00
	250 mm (025)	€1,299.00	€1,269.00	€1,457.00	€1,427.00	€1,249.00	€1,219.00	€1,407.00	€1,377.00
	300 mm (030)	€1,299.00	€1,269.00	€1,457.00	€1,427.00	€1,249.00	€1,219.00	€1,407.00	€1,377.00
	350 mm (035)	€1,322.00	€1,292.00	€1,480.00	€1,450.00	€1,272.00	€1,242.00	€1,430.00	€1,400.00
	400 mm (040)	€1,322.00	€1,292.00	€1,480.00	€1,450.00	€1,272.00	€1,242.00	€1,430.00	€1,400.00
	450 mm (045)	€1,344.00	€1,314.00	€1,503.00	€1,473.00	€1,294.00	€1,264.00	€1,453.00	€1,423.00
	500 mm (050)	€1,344.00	€1,314.00	€1,503.00	€1,473.00	€1,294.00	€1,264.00	€1,453.00	€1,423.00
	550 mm (055)	€1,367.00	€1,337.00	€1,525.00	€1,495.00	€1,317.00	€1,287.00	€1,475.00	€1,445.00
	600 mm (060)	€1,367.00	€1,337.00	€1,525.00	€1,495.00	€1,317.00	€1,287.00	€1,475.00	€1,445.00
	650 mm (065)	€1,389.00	€1,359.00	€1,548.00	€1,518.00	€1,339.00	€1,309.00	€1,498.00	€1,468.00
	700 mm (070)	€1,389.00	€1,359.00	€1,548.00	€1,518.00	€1,339.00	€1,309.00	€1,498.00	€1,468.00

◆ EZS4 For Cleanroom Use

The prices are the same even if the ③ direction of air coupler for suction (**CL, CR**) or ④ lead screw pitch (**D, E**) are different.

⑨ Driver Type (D , Blank)	Built-in Controller Type (D)				Pulse Input Type (Blank)				
	Single Shaft (A)		With Electromagnetic Brake (M)		Single Shaft (A)		With Electromagnetic Brake (M)		
⑦ Motor Type (A, M)	Single Shaft (A)		With Electromagnetic Brake (M)		Single Shaft (A)		With Electromagnetic Brake (M)		
⑩ Connection Cable (1, 2, 3 , Blank)	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	
⑤ Stroke	50 mm (005)	€1,288.00	€1,258.00	€1,446.00	€1,416.00	€1,238.00	€1,208.00	€1,396.00	€1,366.00
	100 mm (010)	€1,288.00	€1,258.00	€1,446.00	€1,416.00	€1,238.00	€1,208.00	€1,396.00	€1,366.00
	150 mm (015)	€1,310.00	€1,280.00	€1,469.00	€1,439.00	€1,260.00	€1,230.00	€1,419.00	€1,389.00
	200 mm (020)	€1,310.00	€1,280.00	€1,469.00	€1,439.00	€1,260.00	€1,230.00	€1,419.00	€1,389.00
	250 mm (025)	€1,333.00	€1,303.00	€1,491.00	€1,461.00	€1,283.00	€1,253.00	€1,441.00	€1,411.00
	300 mm (030)	€1,333.00	€1,303.00	€1,491.00	€1,461.00	€1,283.00	€1,253.00	€1,441.00	€1,411.00
	350 mm (035)	€1,356.00	€1,326.00	€1,514.00	€1,484.00	€1,306.00	€1,276.00	€1,464.00	€1,434.00
	400 mm (040)	€1,356.00	€1,326.00	€1,514.00	€1,484.00	€1,306.00	€1,276.00	€1,464.00	€1,434.00
	450 mm (045)	€1,378.00	€1,348.00	€1,536.00	€1,506.00	€1,328.00	€1,298.00	€1,486.00	€1,456.00
	500 mm (050)	€1,378.00	€1,348.00	€1,536.00	€1,506.00	€1,328.00	€1,298.00	€1,486.00	€1,456.00
	550 mm (055)	€1,401.00	€1,371.00	€1,559.00	€1,529.00	€1,351.00	€1,321.00	€1,509.00	€1,479.00
	600 mm (060)	€1,401.00	€1,371.00	€1,559.00	€1,529.00	€1,351.00	€1,321.00	€1,509.00	€1,479.00
	650 mm (065)	€1,423.00	€1,393.00	€1,582.00	€1,552.00	€1,373.00	€1,343.00	€1,532.00	€1,502.00
	700 mm (070)	€1,423.00	€1,393.00	€1,582.00	€1,552.00	€1,373.00	€1,343.00	€1,532.00	€1,502.00

◆ EZS6 For Cleanroom Use

The prices are the same even if the ③ direction of air coupler for suction (**CL, CR**) or ④ lead screw pitch (**D, E**) are different.

⑨ Driver Type (D , Blank)	Built-in Controller Type (D)				Pulse Input Type (Blank)				
	Single Shaft (A)		With Electromagnetic Brake (M)		Single Shaft (A)		With Electromagnetic Brake (M)		
⑦ Motor Type (A, M)	Single Shaft (A)		With Electromagnetic Brake (M)		Single Shaft (A)		With Electromagnetic Brake (M)		
⑩ Connection Cable (1, 2, 3 , Blank)	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	
⑤ Stroke	50 mm (005)	€1,517.00	€1,487.00	€1,721.00	€1,691.00	€1,467.00	€1,437.00	€1,671.00	€1,641.00
	100 mm (010)	€1,517.00	€1,487.00	€1,721.00	€1,691.00	€1,467.00	€1,437.00	€1,671.00	€1,641.00
	150 mm (015)	€1,540.00	€1,510.00	€1,743.00	€1,713.00	€1,490.00	€1,460.00	€1,693.00	€1,663.00
	200 mm (020)	€1,540.00	€1,510.00	€1,743.00	€1,713.00	€1,490.00	€1,460.00	€1,693.00	€1,663.00
	250 mm (025)	€1,562.00	€1,532.00	€1,766.00	€1,736.00	€1,512.00	€1,482.00	€1,716.00	€1,686.00
	300 mm (030)	€1,562.00	€1,532.00	€1,766.00	€1,736.00	€1,512.00	€1,482.00	€1,716.00	€1,686.00
	350 mm (035)	€1,585.00	€1,555.00	€1,789.00	€1,759.00	€1,535.00	€1,505.00	€1,739.00	€1,709.00
	400 mm (040)	€1,585.00	€1,555.00	€1,789.00	€1,759.00	€1,535.00	€1,505.00	€1,739.00	€1,709.00
	450 mm (045)	€1,608.00	€1,578.00	€1,811.00	€1,781.00	€1,558.00	€1,528.00	€1,761.00	€1,731.00
	500 mm (050)	€1,608.00	€1,578.00	€1,811.00	€1,781.00	€1,558.00	€1,528.00	€1,761.00	€1,731.00
	550 mm (055)	€1,630.00	€1,600.00	€1,834.00	€1,804.00	€1,580.00	€1,550.00	€1,784.00	€1,754.00
	600 mm (060)	€1,630.00	€1,600.00	€1,834.00	€1,804.00	€1,580.00	€1,550.00	€1,784.00	€1,754.00
	650 mm (065)	€1,653.00	€1,623.00	€1,856.00	€1,826.00	€1,603.00	€1,573.00	€1,806.00	€1,776.00
	700 mm (070)	€1,653.00	€1,623.00	€1,856.00	€1,826.00	€1,603.00	€1,573.00	€1,806.00	€1,776.00
	750 mm (075)	€1,675.00	€1,645.00	€1,879.00	€1,849.00	€1,625.00	€1,595.00	€1,829.00	€1,799.00
	800 mm (080)	€1,675.00	€1,645.00	€1,879.00	€1,849.00	€1,625.00	€1,595.00	€1,829.00	€1,799.00
	850 mm (085)	€1,698.00	€1,668.00	€1,902.00	€1,872.00	€1,648.00	€1,618.00	€1,852.00	€1,822.00

Overview, Product Series

Electric Linear Slides

AZ/AR EAS

AZ/AR EZS

Electric Cylinders

AZ/AR EAC

Compact Linear Actuators

AZ DRS2

DRLII

Installation

Hollow Rotary Actuators

AZ/AR DGII

Accessories

● DC Input

◇ Product Number (Straight Type/Reversed Motor Type)

① Series Name	② Motor Orientation	④ Lead Screw Pitch	⑤ Stroke	⑥ Motor	⑦ Motor Type	⑧ Power Supply Input	⑨ Driver Type	⑩ Connection Cable*
EZS3	L	D	005	AZ	A	K	D	1
EZS3 EZS4 EAS6	L: Reversed Motor Type (Left Side) R: Reversed Motor Type (Right Side) Blank: Straight Type	D: 12 mm E: 6 mm	005: 50 mm 010: 100 mm 015: 150 mm ~ 085: 850 mm (50 mm increments)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	K: 24/48 VDC	D: Built-in Controller Type Blank: Pulse Input Type	Number: Included Connection Cable Length 1: 1 m 2: 2 m 3: 3 m Blank: Connection cable is not included

* Connection cables longer than 3 m are available as accessories (sold separately).
Connection Cable Set → Page E-260

◇ EZS3 Straight Type/Reversed Motor Type

The prices are the same even if the ② motor orientation (L, R, Blank) or ④ lead screw pitch (D, E) are different.

⑨ Driver Type (D, Blank)	Built-in Controller Type (D)				Pulse Input Type (Blank)				
	Single Shaft (A)		With Electromagnetic Brake (M)		Single Shaft (A)		With Electromagnetic Brake (M)		
⑦ Motor Type (A, M)	Included (1, 2, 3)		Not Included		Included (1, 2, 3)		Not Included		
⑩ Connection Cable (1, 2, 3, Blank)	Included (1, 2, 3)		Not Included		Included (1, 2, 3)		Not Included		
⑤ Stroke	50 mm (005)	€1,021.00	€991.00	€1,179.00	€1,149.00	€971.00	€941.00	€1,129.00	€1,099.00
	100 mm (010)	€1,021.00	€991.00	€1,179.00	€1,149.00	€971.00	€941.00	€1,129.00	€1,099.00
	150 mm (015)	€1,043.00	€1,013.00	€1,202.00	€1,172.00	€993.00	€963.00	€1,152.00	€1,122.00
	200 mm (020)	€1,043.00	€1,013.00	€1,202.00	€1,172.00	€993.00	€963.00	€1,152.00	€1,122.00
	250 mm (025)	€1,066.00	€1,036.00	€1,224.00	€1,194.00	€1,016.00	€986.00	€1,174.00	€1,144.00
	300 mm (030)	€1,066.00	€1,036.00	€1,224.00	€1,194.00	€1,016.00	€986.00	€1,174.00	€1,144.00
	350 mm (035)	€1,089.00	€1,059.00	€1,247.00	€1,217.00	€1,039.00	€1,009.00	€1,197.00	€1,167.00
	400 mm (040)	€1,089.00	€1,059.00	€1,247.00	€1,217.00	€1,039.00	€1,009.00	€1,197.00	€1,167.00
	450 mm (045)	€1,111.00	€1,081.00	€1,269.00	€1,239.00	€1,061.00	€1,031.00	€1,219.00	€1,189.00
	500 mm (050)	€1,111.00	€1,081.00	€1,269.00	€1,239.00	€1,061.00	€1,031.00	€1,219.00	€1,189.00
	550 mm (055)	€1,134.00	€1,104.00	€1,292.00	€1,262.00	€1,084.00	€1,054.00	€1,242.00	€1,212.00
	600 mm (060)	€1,134.00	€1,104.00	€1,292.00	€1,262.00	€1,084.00	€1,054.00	€1,242.00	€1,212.00
	650 mm (065)	€1,156.00	€1,126.00	€1,315.00	€1,285.00	€1,106.00	€1,076.00	€1,265.00	€1,235.00
	700 mm (070)	€1,156.00	€1,126.00	€1,315.00	€1,285.00	€1,106.00	€1,076.00	€1,265.00	€1,235.00

◇ EZS4 Straight Type/Reversed Motor Type

The prices are the same even if the ② motor orientation (L, R, Blank) or ④ lead screw pitch (D, E) are different.

⑨ Driver Type (D, Blank)	Built-in Controller Type (D)				Pulse Input Type (Blank)				
	Single Shaft (A)		With Electromagnetic Brake (M)		Single Shaft (A)		With Electromagnetic Brake (M)		
⑦ Motor Type (A, M)	Included (1, 2, 3)		Not Included		Included (1, 2, 3)		Not Included		
⑩ Connection Cable (1, 2, 3, Blank)	Included (1, 2, 3)		Not Included		Included (1, 2, 3)		Not Included		
⑤ Stroke	50 mm (005)	€1,055.00	€1,025.00	€1,213.00	€1,183.00	€1,005.00	€975.00	€1,163.00	€1,133.00
	100 mm (010)	€1,055.00	€1,025.00	€1,213.00	€1,183.00	€1,005.00	€975.00	€1,163.00	€1,133.00
	150 mm (015)	€1,077.00	€1,047.00	€1,236.00	€1,206.00	€1,027.00	€997.00	€1,186.00	€1,156.00
	200 mm (020)	€1,077.00	€1,047.00	€1,236.00	€1,206.00	€1,027.00	€997.00	€1,186.00	€1,156.00
	250 mm (025)	€1,100.00	€1,070.00	€1,258.00	€1,228.00	€1,050.00	€1,020.00	€1,208.00	€1,178.00
	300 mm (030)	€1,100.00	€1,070.00	€1,258.00	€1,228.00	€1,050.00	€1,020.00	€1,208.00	€1,178.00
	350 mm (035)	€1,123.00	€1,093.00	€1,281.00	€1,251.00	€1,073.00	€1,043.00	€1,231.00	€1,201.00
	400 mm (040)	€1,123.00	€1,093.00	€1,281.00	€1,251.00	€1,073.00	€1,043.00	€1,231.00	€1,201.00
	450 mm (045)	€1,145.00	€1,115.00	€1,303.00	€1,273.00	€1,095.00	€1,065.00	€1,253.00	€1,223.00
	500 mm (050)	€1,145.00	€1,115.00	€1,303.00	€1,273.00	€1,095.00	€1,065.00	€1,253.00	€1,223.00
	550 mm (055)	€1,168.00	€1,138.00	€1,326.00	€1,296.00	€1,118.00	€1,088.00	€1,276.00	€1,246.00
	600 mm (060)	€1,168.00	€1,138.00	€1,326.00	€1,296.00	€1,118.00	€1,088.00	€1,276.00	€1,246.00
	650 mm (065)	€1,190.00	€1,160.00	€1,349.00	€1,319.00	€1,140.00	€1,110.00	€1,299.00	€1,269.00
	700 mm (070)	€1,190.00	€1,160.00	€1,349.00	€1,319.00	€1,140.00	€1,110.00	€1,299.00	€1,269.00

◇ EZS6 Straight Type/Reversed Motor Type

The prices are the same even if the ② motor orientation (L, R, Blank) or ④ lead screw pitch (D, E) are different.

⑨ Driver Type (D, Blank)	Built-in Controller Type (D)				Pulse Input Type (Blank)				
	Single Shaft (A)		With Electromagnetic Brake (M)		Single Shaft (A)		With Electromagnetic Brake (M)		
⑦ Motor Type (A, M)	Included (1, 2, 3)		Not Included		Included (1, 2, 3)		Not Included		
⑩ Connection Cable (1, 2, 3, Blank)	Included (1, 2, 3)		Not Included		Included (1, 2, 3)		Not Included		
⑤ Stroke	50 mm (005)	€1,284.00	€1,254.00	€1,488.00	€1,458.00	€1,234.00	€1,204.00	€1,438.00	€1,408.00
	100 mm (010)	€1,284.00	€1,254.00	€1,488.00	€1,458.00	€1,234.00	€1,204.00	€1,438.00	€1,408.00
	150 mm (015)	€1,307.00	€1,277.00	€1,510.00	€1,480.00	€1,257.00	€1,227.00	€1,460.00	€1,430.00
	200 mm (020)	€1,307.00	€1,277.00	€1,510.00	€1,480.00	€1,257.00	€1,227.00	€1,460.00	€1,430.00
	250 mm (025)	€1,329.00	€1,299.00	€1,533.00	€1,503.00	€1,279.00	€1,249.00	€1,483.00	€1,453.00
	300 mm (030)	€1,329.00	€1,299.00	€1,533.00	€1,503.00	€1,279.00	€1,249.00	€1,483.00	€1,453.00
	350 mm (035)	€1,352.00	€1,322.00	€1,555.00	€1,525.00	€1,302.00	€1,272.00	€1,505.00	€1,475.00
	400 mm (040)	€1,352.00	€1,322.00	€1,555.00	€1,525.00	€1,302.00	€1,272.00	€1,505.00	€1,475.00
	450 mm (045)	€1,375.00	€1,345.00	€1,578.00	€1,548.00	€1,325.00	€1,295.00	€1,528.00	€1,498.00
	500 mm (050)	€1,375.00	€1,345.00	€1,578.00	€1,548.00	€1,325.00	€1,295.00	€1,528.00	€1,498.00
	550 mm (055)	€1,397.00	€1,367.00	€1,601.00	€1,571.00	€1,347.00	€1,317.00	€1,551.00	€1,521.00
	600 mm (060)	€1,397.00	€1,367.00	€1,601.00	€1,571.00	€1,347.00	€1,317.00	€1,551.00	€1,521.00
	650 mm (065)	€1,420.00	€1,390.00	€1,623.00	€1,593.00	€1,370.00	€1,340.00	€1,573.00	€1,543.00
	700 mm (070)	€1,420.00	€1,390.00	€1,623.00	€1,593.00	€1,370.00	€1,340.00	€1,573.00	€1,543.00
	750 mm (075)	€1,442.00	€1,412.00	€1,646.00	€1,616.00	€1,392.00	€1,362.00	€1,596.00	€1,566.00
	800 mm (080)	€1,442.00	€1,412.00	€1,646.00	€1,616.00	€1,392.00	€1,362.00	€1,596.00	€1,566.00
850 mm (085)	€1,465.00	€1,435.00	€1,669.00	€1,639.00	€1,415.00	€1,385.00	€1,619.00	€1,589.00	

◆ Product Number (For Cleanroom Use)

① Series Name	③ Direction of Air Coupler for Suction* ¹	④ Lead Screw Pitch	⑤ Stroke	⑥ Motor	⑦ Motor Type	⑧ Power Supply Input	⑨ Driver Type	⑩ Connection Cable* ²
EZS3	CL	D	005	AZ	A	K	D	1
EZS3 EZS4 EZS6	CL: Left Direction CR: Right Direction	D: 12 mm E: 6 mm	005: 50 mm 010: 100 mm 015: 150 mm 085: 850 mm (50 mm increments)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	K: 24/48 VDC	D: Built-in Controller Type Blank: Pulse Input Type	Number: Included Connection Cable Length 1: 1 m 2: 2 m 3: 3 m Blank: Connection cable is not included

*1 Only straight type is compatible for Cleanroom Use. For Cleanroom Use products, the direction of air coupler for suction is required.

*2 Connection cables longer than 3 m are available as accessories (sold separately).

Connection Cable Set → Page E-260

◆ EZS3 For Cleanroom Use

The prices are the same even if the ③ direction of air coupler for suction (**CL, CR**) or ④ lead screw pitch (**D, E**) are different.

⑨ Driver Type (D , Blank)	Built-in Controller Type (D)				Pulse Input Type (Blank)				
	Single Shaft (A)		With Electromagnetic Brake (M)		Single Shaft (A)		With Electromagnetic Brake (M)		
⑦ Motor Type (A, M)	Single Shaft (A)		With Electromagnetic Brake (M)		Single Shaft (A)		With Electromagnetic Brake (M)		
⑩ Connection Cable (1, 2, 3 , Blank)	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	
⑤ Stroke	50 mm (005)	€1,134.00	€1,104.00	€1,292.00	€1,262.00	€1,084.00	€1,054.00	€1,242.00	€1,212.00
	100 mm (010)	€1,134.00	€1,104.00	€1,292.00	€1,262.00	€1,084.00	€1,054.00	€1,242.00	€1,212.00
	150 mm (015)	€1,156.00	€1,126.00	€1,315.00	€1,285.00	€1,106.00	€1,076.00	€1,265.00	€1,235.00
	200 mm (020)	€1,156.00	€1,126.00	€1,315.00	€1,285.00	€1,106.00	€1,076.00	€1,265.00	€1,235.00
	250 mm (025)	€1,179.00	€1,149.00	€1,337.00	€1,307.00	€1,129.00	€1,099.00	€1,287.00	€1,257.00
	300 mm (030)	€1,179.00	€1,149.00	€1,337.00	€1,307.00	€1,129.00	€1,099.00	€1,287.00	€1,257.00
	350 mm (035)	€1,202.00	€1,172.00	€1,360.00	€1,330.00	€1,152.00	€1,122.00	€1,310.00	€1,280.00
	400 mm (040)	€1,202.00	€1,172.00	€1,360.00	€1,330.00	€1,152.00	€1,122.00	€1,310.00	€1,280.00
	450 mm (045)	€1,224.00	€1,194.00	€1,383.00	€1,353.00	€1,174.00	€1,144.00	€1,333.00	€1,303.00
	500 mm (050)	€1,224.00	€1,194.00	€1,383.00	€1,353.00	€1,174.00	€1,144.00	€1,333.00	€1,303.00
	550 mm (055)	€1,247.00	€1,217.00	€1,405.00	€1,375.00	€1,197.00	€1,167.00	€1,355.00	€1,325.00
	600 mm (060)	€1,247.00	€1,217.00	€1,405.00	€1,375.00	€1,197.00	€1,167.00	€1,355.00	€1,325.00
	650 mm (065)	€1,269.00	€1,239.00	€1,428.00	€1,398.00	€1,219.00	€1,189.00	€1,378.00	€1,348.00
	700 mm (070)	€1,269.00	€1,239.00	€1,428.00	€1,398.00	€1,219.00	€1,189.00	€1,378.00	€1,348.00

◆ EZS4 For Cleanroom Use

The prices are the same even if the ③ direction of air coupler for suction (**CL, CR**) or ④ lead screw pitch (**D, E**) are different.

⑨ Driver Type (D , Blank)	Built-in Controller Type (D)				Pulse Input Type (Blank)				
	Single Shaft (A)		With Electromagnetic Brake (M)		Single Shaft (A)		With Electromagnetic Brake (M)		
⑦ Motor Type (A, M)	Single Shaft (A)		With Electromagnetic Brake (M)		Single Shaft (A)		With Electromagnetic Brake (M)		
⑩ Connection Cable (1, 2, 3 , Blank)	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	
⑤ Stroke	50 mm (005)	€1,168.00	€1,138.00	€1,326.00	€1,296.00	€1,118.00	€1,088.00	€1,276.00	€1,246.00
	100 mm (010)	€1,168.00	€1,138.00	€1,326.00	€1,296.00	€1,118.00	€1,088.00	€1,276.00	€1,246.00
	150 mm (015)	€1,190.00	€1,160.00	€1,349.00	€1,319.00	€1,140.00	€1,110.00	€1,299.00	€1,269.00
	200 mm (020)	€1,190.00	€1,160.00	€1,349.00	€1,319.00	€1,140.00	€1,110.00	€1,299.00	€1,269.00
	250 mm (025)	€1,213.00	€1,183.00	€1,371.00	€1,341.00	€1,163.00	€1,133.00	€1,321.00	€1,291.00
	300 mm (030)	€1,213.00	€1,183.00	€1,371.00	€1,341.00	€1,163.00	€1,133.00	€1,321.00	€1,291.00
	350 mm (035)	€1,236.00	€1,206.00	€1,394.00	€1,364.00	€1,186.00	€1,156.00	€1,344.00	€1,314.00
	400 mm (040)	€1,236.00	€1,206.00	€1,394.00	€1,364.00	€1,186.00	€1,156.00	€1,344.00	€1,314.00
	450 mm (045)	€1,258.00	€1,228.00	€1,416.00	€1,386.00	€1,208.00	€1,178.00	€1,366.00	€1,336.00
	500 mm (050)	€1,258.00	€1,228.00	€1,416.00	€1,386.00	€1,208.00	€1,178.00	€1,366.00	€1,336.00
	550 mm (055)	€1,281.00	€1,251.00	€1,439.00	€1,409.00	€1,231.00	€1,201.00	€1,389.00	€1,359.00
	600 mm (060)	€1,281.00	€1,251.00	€1,439.00	€1,409.00	€1,231.00	€1,201.00	€1,389.00	€1,359.00
	650 mm (065)	€1,303.00	€1,273.00	€1,462.00	€1,432.00	€1,253.00	€1,223.00	€1,412.00	€1,382.00
	700 mm (070)	€1,303.00	€1,273.00	€1,462.00	€1,432.00	€1,253.00	€1,223.00	€1,412.00	€1,382.00

◆ EZS6 For Cleanroom Use

The prices are the same even if the ③ direction of air coupler for suction (**CL, CR**) or ④ lead screw pitch (**D, E**) are different.

⑨ Driver Type (D , Blank)	Built-in Controller Type (D)				Pulse Input Type (Blank)				
	Single Shaft (A)		With Electromagnetic Brake (M)		Single Shaft (A)		With Electromagnetic Brake (M)		
⑦ Motor Type (A, M)	Single Shaft (A)		With Electromagnetic Brake (M)		Single Shaft (A)		With Electromagnetic Brake (M)		
⑩ Connection Cable (1, 2, 3 , Blank)	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	Included (1, 2, 3)	Not Included	
⑤ Stroke	50 mm (005)	€1,397.00	€1,367.00	€1,601.00	€1,571.00	€1,347.00	€1,317.00	€1,551.00	€1,521.00
	100 mm (010)	€1,397.00	€1,367.00	€1,601.00	€1,571.00	€1,347.00	€1,317.00	€1,551.00	€1,521.00
	150 mm (015)	€1,420.00	€1,390.00	€1,623.00	€1,593.00	€1,370.00	€1,340.00	€1,573.00	€1,543.00
	200 mm (020)	€1,420.00	€1,390.00	€1,623.00	€1,593.00	€1,370.00	€1,340.00	€1,573.00	€1,543.00
	250 mm (025)	€1,442.00	€1,412.00	€1,646.00	€1,616.00	€1,392.00	€1,362.00	€1,596.00	€1,566.00
	300 mm (030)	€1,442.00	€1,412.00	€1,646.00	€1,616.00	€1,392.00	€1,362.00	€1,596.00	€1,566.00
	350 mm (035)	€1,465.00	€1,435.00	€1,669.00	€1,639.00	€1,415.00	€1,385.00	€1,619.00	€1,589.00
	400 mm (040)	€1,465.00	€1,435.00	€1,669.00	€1,639.00	€1,415.00	€1,385.00	€1,619.00	€1,589.00
	450 mm (045)	€1,488.00	€1,458.00	€1,691.00	€1,661.00	€1,438.00	€1,408.00	€1,641.00	€1,611.00
	500 mm (050)	€1,488.00	€1,458.00	€1,691.00	€1,661.00	€1,438.00	€1,408.00	€1,641.00	€1,611.00
	550 mm (055)	€1,510.00	€1,480.00	€1,714.00	€1,684.00	€1,460.00	€1,430.00	€1,664.00	€1,634.00
	600 mm (060)	€1,510.00	€1,480.00	€1,714.00	€1,684.00	€1,460.00	€1,430.00	€1,664.00	€1,634.00
	650 mm (065)	€1,533.00	€1,503.00	€1,736.00	€1,706.00	€1,483.00	€1,453.00	€1,686.00	€1,656.00
	700 mm (070)	€1,533.00	€1,503.00	€1,736.00	€1,706.00	€1,483.00	€1,453.00	€1,686.00	€1,656.00
	750 mm (075)	€1,555.00	€1,525.00	€1,759.00	€1,729.00	€1,505.00	€1,475.00	€1,709.00	€1,679.00
	800 mm (080)	€1,555.00	€1,525.00	€1,759.00	€1,729.00	€1,505.00	€1,475.00	€1,709.00	€1,679.00
	850 mm (085)	€1,578.00	€1,548.00	€1,782.00	€1,752.00	€1,528.00	€1,498.00	€1,732.00	€1,702.00

Overview, Product Series

Electric Linear Slides

AZ/AR
EAS

AZ/AR
EZS

Electric Cylinders

AZ/AR
EAC

Compact Linear Actuators

AZ
DRS2

DRLII

Installation

Hollow Rotary Actuators

AZ/AR
DGII

Accessories

System Configuration

When Equipped with AZ Series, Built-in Controller Type with an Electromagnetic Brake

(Information for AC input type and DC input type are both provided. The photos show the product for AC input type.)

An example of a configuration using I/O control or RS-485 communication is shown below.

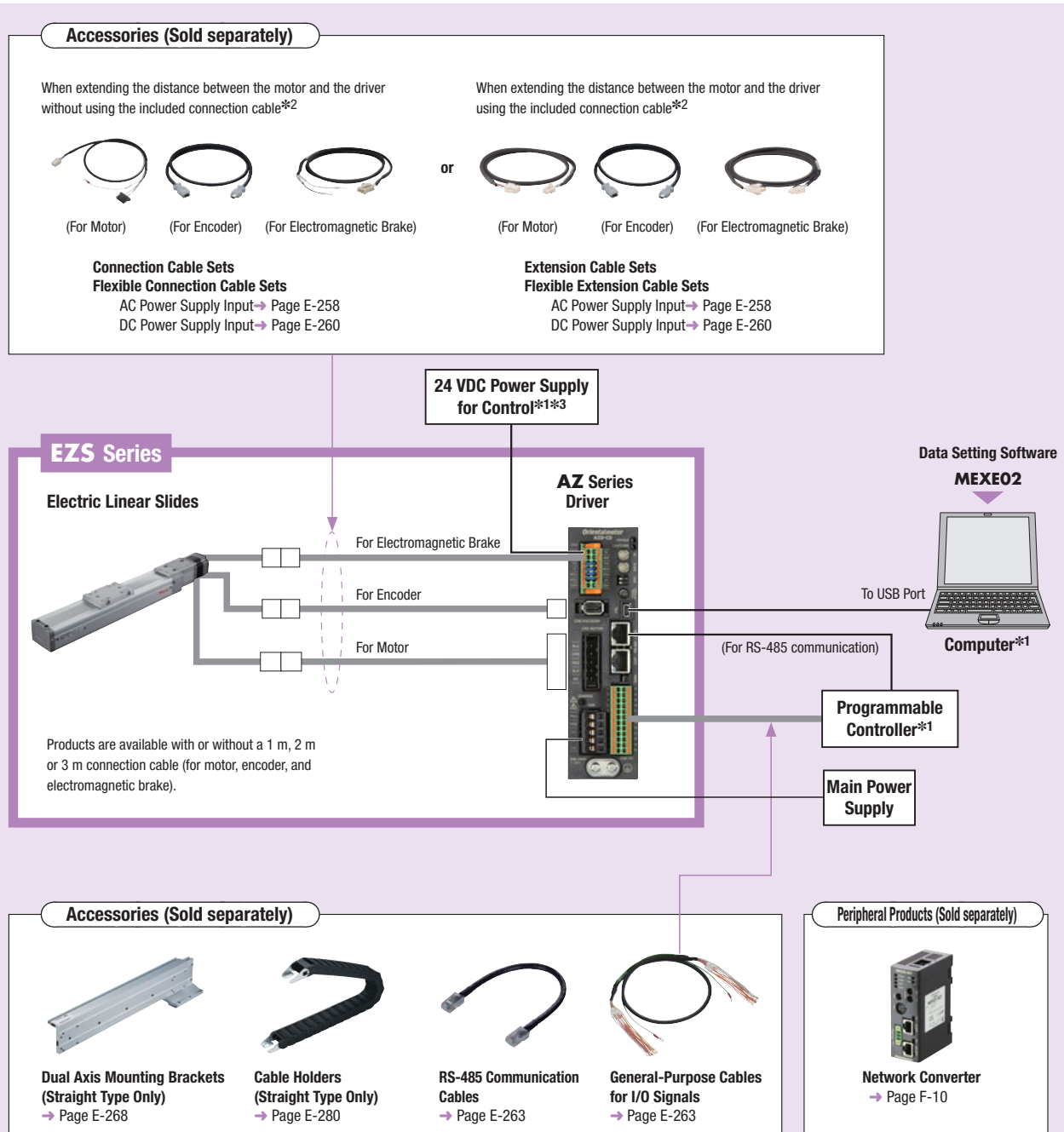
*1 Not supplied.

*2 Only products in which a connection cable is included.

*3 Not required for products for DC input.

α STEP
AZ
Equipped

α STEP
AR
Equipped



● The function and operating method are common with the stepper motor AZ series. For the function and operating method, refer to the operating manual of AZ series (For drivers and functions).

The operating manual for functions is not supplied with the product. Please contact the nearest Oriental Motor sales office, or download from the Oriental Motor website. www.orientalmotor.eu

Example of System Configuration

EZS Series	+	Sold Separately
EZS4-D050-AZMCD-1 €1,423.00		General-Purpose Cables for I/O Signals (1 m) CC16D010B-1 €18.00

● The system configuration shown above is an example. Other combinations are also available.

● When Equipped with AZ Series, Pulse Input Type with an Electromagnetic Brake

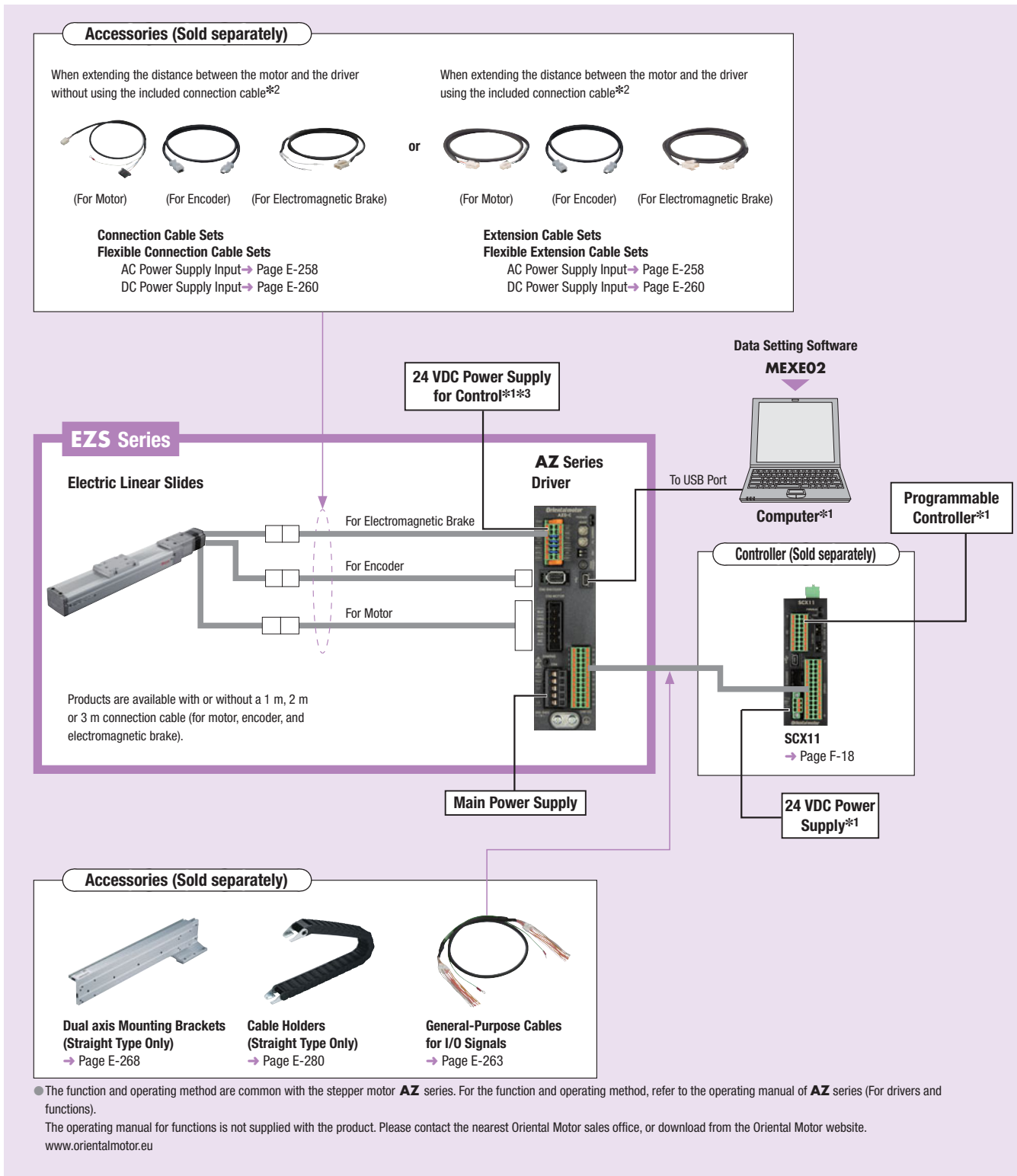
(Information for AC input type and DC input type are both provided. The photos show the product for AC input type.)

An example of a single-axis system configuration with the **SCX11** controller is shown below.

*1 Not supplied.

*2 Only products in which a connection cable is included.

*3 Not required for products for DC input.



● Example of System Configuration

E-ZS Series EZS4-D050-AZMC-1 €1,373.00	+	Sold Separately	
		Controller SCX11 €215.00	General-Purpose Cables for I/O Signals (1 m) CC16D010B-1 €18.00

● The system configuration shown above is an example. Other combinations are also available.

Overview, Product Series

Electric Linear Slides

Q^{STEP} AZ/AR EAS

Q^{STEP} AZ/AR EZS

Electric Cylinders

Q^{STEP} AZ/AR EAC

Compact Linear Actuators

Q^{STEP} AZ DRS2

DRLII

Installation

Hollow Rotary Actuators

Q^{STEP} AZ/AR DGII

Accessories

EVS3: Width 54 mm × Height 50 mm AC Input Straight Type/Reversed Motor Type/For Cleanroom Use

α STEP
AZ
Equipped

Maximum Transportable Mass:
Horizontal 15 kg/Vertical 7 kg
Stroke: 50 to 700 mm (50 mm Increments)



α STEP
AR
Equipped

Electric Linear Slides Specifications

Drive Method	Ball Screw	Minimum Travel Amount [mm]	0.01	Dynamic Permissible Moment [N·m]	M _r : 4.2 M _v : 4.2 M _a : 10.5						
Repetitive Positioning Accuracy [mm]	±0.02	Traveling Parallelism [mm]	0.03	Static Permissible Moment [N·m]	M _r : 26.4 M _v : 26.4 M _a : 52.0						
Product Name	Lead Screw Pitch [mm]	Transportable Mass [kg]		Thrust [N]	Push Force [N]	Holding Force [N]	Maximum Speed by Stroke [mm/s]				
		Horizontal	Vertical				50~500 mm	550 mm	600 mm	650 mm	700 mm
EVS3 ②③-D ⑤-AZAC ⑨-⑩	12	~7.5	-	~43	100	70	800	650	550	460	400
EVS3 ②③-D ⑤-AZMC ⑨-⑩			~3.5								
EVS3 ②③-E ⑤-AZAC ⑨-⑩	6	~15	-	~86	200	140 [125]*	400	320	270	220	200
EVS3 ②③-E ⑤-AZMC ⑨-⑩			~7								

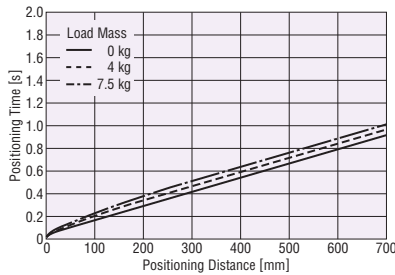
- A symbol or number is specified where ②③⑤⑨⑩ are located in the product name. For details, please refer to "◇Product Number" on page E-80 and E-81.
- For details on how to read the specification table, please refer to "How to Read Specifications" on page E-24.
- * The brackets [] indicate the value of the reversed motor type.

Positioning Distance – Positioning Time

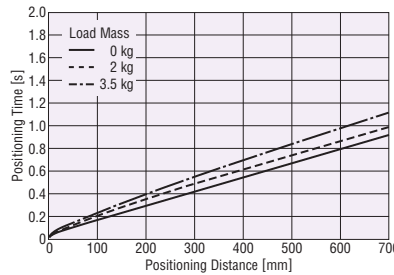
Check the positioning time (reference) from the positioning distance.
The value by multiplying the positioning time coefficient of the stroke with the positioning time calculated from the graph can be used as a reference for positioning time. Refer to page E-106 for the operating speed and acceleration.

● Lead Screw Pitch 12 mm

◇ Horizontal Direction Installation



◇ Vertical Direction Installation

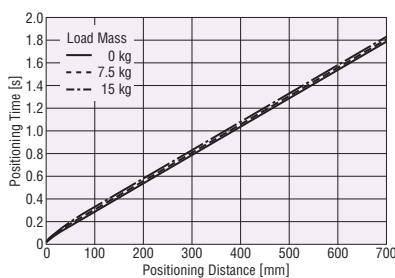


Positioning Time Coefficient

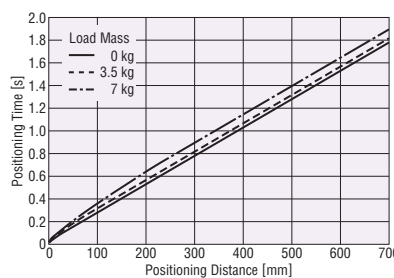
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	4 kg	7.5 kg	0 kg	2 kg	3.5 kg
50~500	1.0	1.0	1.0	1.0	1.0	1.0
550	1.2	1.2	1.1	1.2	1.1	1.0
600	1.4	1.3	1.3	1.4	1.3	1.2
650	1.7	1.6	1.5	1.7	1.6	1.4
700	1.9	1.8	1.8	1.9	1.8	1.6

● Lead Screw Pitch 6 mm

◇ Horizontal Direction Installation



◇ Vertical Direction Installation



Positioning Time Coefficient

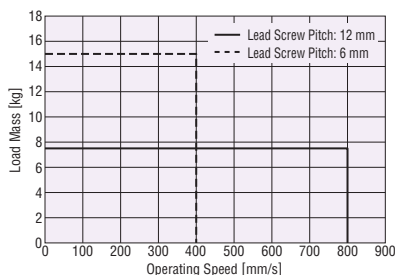
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg
50~500	1.0	1.0	1.0	1.0	1.0	1.0
550	1.2	1.2	1.2	1.2	1.2	1.2
600	1.5	1.4	1.4	1.5	1.4	1.4
650	1.8	1.8	1.7	1.8	1.8	1.7
700	2.0	1.9	1.9	2.0	1.9	1.9

Note

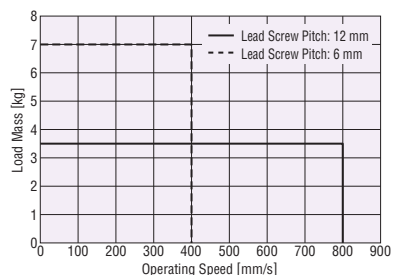
- Starting speed should be 6 mm/s max.

Operating Speed – Load Mass

● Horizontal Direction Installation (Acceleration 3 m/s²)



● Vertical Direction Installation (Acceleration 2 m/s²)



Dimension

- Electric Linear Slides
→ Page E-96, E-97
- Driver
→ Page E-104

Connection and Operation

- Built-in Controller Type
→ Page A-60
- Pulse Input Type
→ Page A-64

EZS3: Width 54 mm × Height 50 mm 24 VDC Input Straight Type/Reversed Motor Type/For Cleanroom Use

Maximum Transportable Mass:
Horizontal 15 kg/Vertical 7 kg
Stroke: 50 to 700 mm (50 mm Increments)



Electric Linear Slides Specifications

Drive Method	Ball Screw	Minimum Travel Amount [mm]	0.01	Dynamic Permissible Moment [N·m]	M _r : 4.2 M _v : 4.2 M _a : 10.5					
Repetitive Positioning Accuracy [mm]	±0.02	Traveling Parallelism [mm]	0.03	Static Permissible Moment [N·m]	M _r : 26.4 M _v : 26.4 M _a : 52.0					
Product Name	Lead Screw Pitch [mm]	Transportable Mass [kg]		Thrust [N]	Push Force [N]	Holding Force [N]	Maximum Speed by Stroke [mm/s]			
		Horizontal	Vertical				50~550 mm	600 mm	650 mm	700 mm
EZS3 ②③-D⑤-AZAK ⑨-⑩	12	~7.5	-	~43	100	70	600	550	460	400
EZS3 ②③-D⑤-AZMK ⑨-⑩			~3.5							
EZS3 ②③-E⑤-AZAK ⑨-⑩	6	~15	-	~86	200	140 [125]*	300	270	220	200
EZS3 ②③-E⑤-AZMK ⑨-⑩			~7							

- A symbol or number is specified where ②③⑤⑨⑩ are located in the product name. For details, please refer to "◇Product Number" on page E-82 and E-83.
- For details on how to read the specification table, please refer to "How to Read Specifications" on page E-24.
- For the specification and characteristics of 48 VDC input, please contact the nearest Oriental Motor sales office.
- * The parentheses [] indicate the value of the reversed motor type.

Note

- The maximum speed may be lower, depending on the ambient temperature and the length of the motor cable.

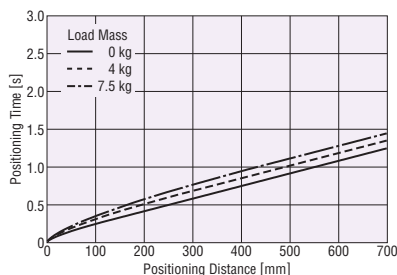
Positioning Distance – Positioning Time

Check the positioning time (reference) from the positioning distance.

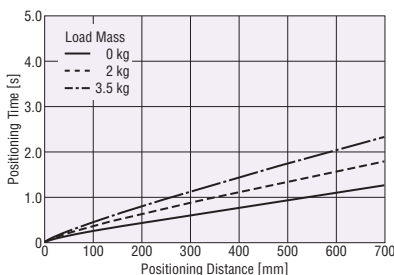
The value by multiplying the positioning time coefficient of the stroke with the positioning time calculated from the graph can be used as a reference for positioning time. Refer to page E-107 for the operating speed and acceleration.

● Lead Screw Pitch 12 mm

◇ Horizontal Direction Installation



◇ Vertical Direction Installation

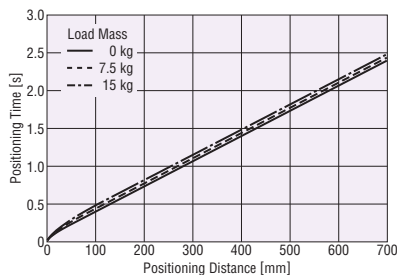


Positioning Time Coefficient

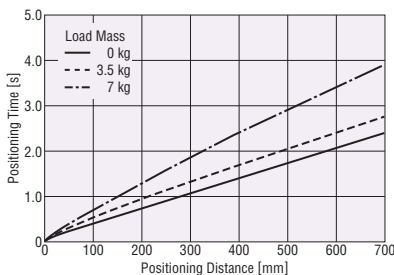
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	4 kg	7.5 kg	0 kg	2 kg	3.5 kg
50~550	1.0	1.0	1.0	1.0	1.0	1.0
600	1.1	1.0	1.0	1.1	1.0	1.0
650	1.2	1.2	1.1	1.2	1.0	1.0
700	1.4	1.3	1.3	1.4	1.0	1.0

● Lead Screw Pitch 6 mm

◇ Horizontal Direction Installation



◇ Vertical Direction Installation



Positioning Time Coefficient

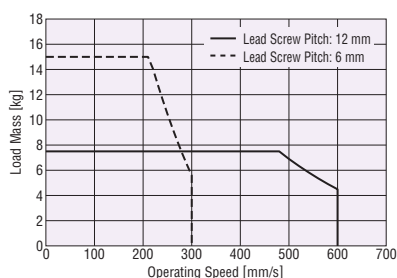
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg
50~550	1.0	1.0	1.0	1.0	1.0	1.0
600	1.1	1.1	1.1	1.1	1.0	1.0
650	1.3	1.3	1.3	1.3	1.2	1.0
700	1.5	1.5	1.4	1.5	1.3	1.0

Note

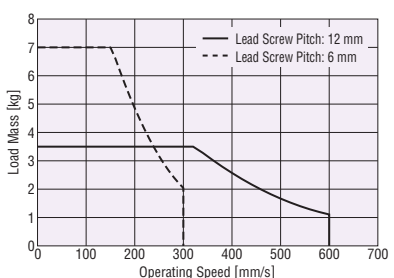
- Starting speed should be 6 mm/s max.

Operating Speed – Load Mass

● Horizontal Direction Installation
(Acceleration 3 m/s²)



● Vertical Direction Installation
(Acceleration 2 m/s²)



Dimension

- Electric Linear Slides
→ Page E-96, E-97

- Driver
→ Page E-104

Connection and Operation

- Built-in Controller Type
→ Page A-205
- Pulse Input Type
→ Page A-209

Overview, Product Series

Electric Linear Slides

Q1STEP AZ/AR EAS

Q1STEP AZ/AR EZS

Electric Cylinders

Q1STEP AZ/AR EAC

Compact Linear Actuators

Q1STEP AZ DRS2

DRLII

Installation

Hollow Rotary Actuators

Q1STEP AZ/AR DGII

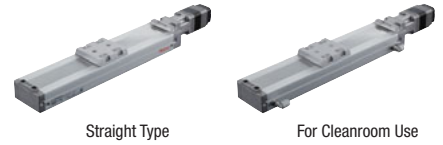
Accessories

EVS4: Width 74 mm × Height 50 mm AC Input Straight Type/For Cleanroom Use

α STEP
AZ
Equipped

Maximum Transportable Mass: Horizontal 30 kg/Vertical 14 kg
Stroke: 50 to 700 mm (50 mm Increments)

α STEP
AR
Equipped



Electric Linear Slides Specifications

Drive Method	Ball Screw	Minimum Travel Amount [mm]	0.01	Dynamic Permissible Moment [N·m]	M _r : 8.0 M _v : 8.0 M _a : 27.8						
Repetitive Positioning Accuracy [mm]	±0.02	Traveling Parallelism [mm]	0.03	Static Permissible Moment [N·m]	M _r : 51.2 M _v : 42.5 M _a : 176.0						
Product Name	Lead Screw Pitch [mm]	Transportable Mass [kg]		Thrust [N]	Push Force [N]	Holding Force [N]	Maximum Speed by Stroke [mm/s]				
		Horizontal	Vertical				50~500 mm	550 mm	600 mm	650 mm	700 mm
EVS4- $\textcircled{3}$ -D- $\textcircled{5}$ -AZAC- $\textcircled{9}$ - $\textcircled{10}$	12	~15	-	~70	100	70	800	650	550	460	400
EVS4- $\textcircled{3}$ -D- $\textcircled{5}$ -AZMC- $\textcircled{9}$ - $\textcircled{10}$			~7								
EVS4- $\textcircled{3}$ -E- $\textcircled{5}$ -AZAC- $\textcircled{9}$ - $\textcircled{10}$	6	~30	-	~140	200	140	400	320	270	220	200
EVS4- $\textcircled{3}$ -E- $\textcircled{5}$ -AZMC- $\textcircled{9}$ - $\textcircled{10}$			~14								

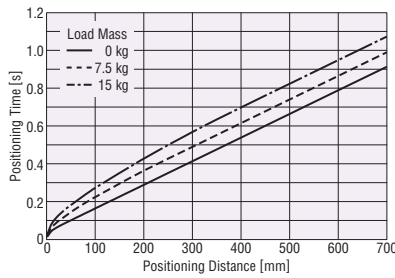
● A symbol or number is specified where $\textcircled{3}$ $\textcircled{5}$ $\textcircled{9}$ $\textcircled{10}$ are located in the product name. For details, please refer to "◇Product Number" on page E-80 and E-81.
● For details on how to read the specification table, please refer to "How to Read Specifications" on page E-24.

Positioning Distance – Positioning Time

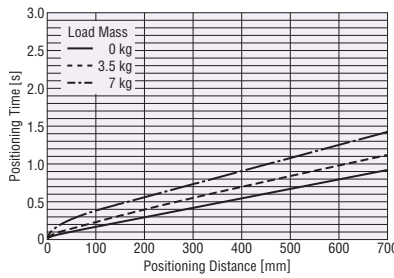
Check the positioning time (reference) from the positioning distance.
The value by multiplying the positioning time coefficient of the stroke with the positioning time calculated from the graph can be used as a reference for positioning time. Refer to page E-108 for the operating speed and acceleration.

● Lead Screw Pitch 12 mm

◇ Horizontal Direction Installation



◇ Vertical Direction Installation

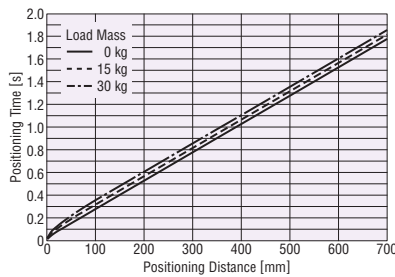


Positioning Time Coefficient

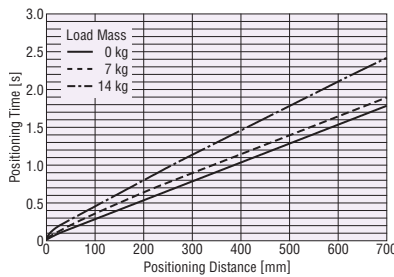
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg
50~500	1.0	1.0	1.0	1.0	1.0	1.0
550	1.2	1.1	1.1	1.2	1.0	1.0
600	1.4	1.3	1.2	1.4	1.2	1.0
650	1.7	1.5	1.4	1.7	1.4	1.2
700	1.9	1.8	1.6	1.9	1.6	1.3

● Lead Screw Pitch 6 mm

◇ Horizontal Direction Installation



◇ Vertical Direction Installation



Positioning Time Coefficient

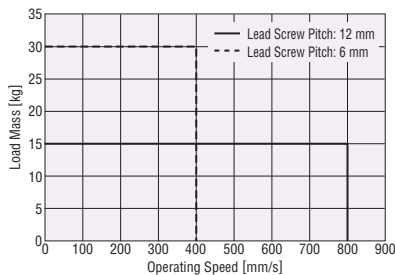
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	15 kg	30 kg	0 kg	7 kg	14 kg
50~500	1.0	1.0	1.0	1.0	1.0	1.0
550	1.2	1.2	1.2	1.2	1.2	1.0
600	1.5	1.4	1.4	1.5	1.4	1.1
650	1.8	1.7	1.7	1.8	1.7	1.3
700	2.0	1.9	1.9	2.0	1.9	1.5

Note

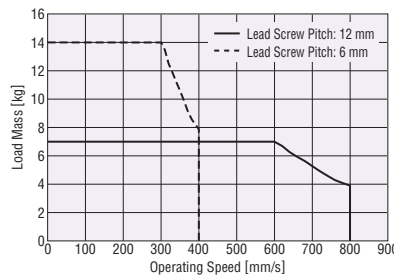
● Starting speed should be 6 mm/s max.

Operating Speed – Load Mass

● Horizontal Direction Installation (Acceleration 3 m/s²)



● Vertical Direction Installation (Acceleration 2 m/s²)



Dimension

● Electric Linear Slides

→ Page E-98

● Driver

→ Page E-104

Connection and Operation

● Built-in Controller Type

→ Page A-60

● Pulse Input Type

→ Page A-64

EZS4: Width 74 mm × Height 50 mm AC Input Reversed Motor Type

Maximum Transportable Mass: Horizontal 30 kg/Vertical 12.5 kg
Stroke: 50 to 700 mm (50 mm Increments)



Reversed Motor Type

Electric Linear Slides Specifications

Drive Method	Ball Screw	Minimum Travel Amount [mm]	0.01	Dynamic Permissible Moment [N·m]	M _r : 8.0 M _v : 8.0 M _a : 27.8						
Repetitive Positioning Accuracy [mm]	±0.02	Traveling Parallelism [mm]	0.03	Static Permissible Moment [N·m]	M _r : 51.2 M _v : 42.5 M _a : 176.0						
Product Name	Lead Screw Pitch [mm]	Transportable Mass [kg]		Thrust [N]	Push Force [N]	Holding Force [N]	Maximum Speed by Stroke [mm/s]				
		Horizontal	Vertical				50~500 mm	550 mm	600 mm	650 mm	700 mm
EZS4 ②-D ⑤-AZAC ⑨-⑩	12	~15	-	~70	100	70	800	650	550	460	400
EZS4 ②-D ⑤-AZMC ⑨-⑩			~7								
EZS4 ②-E ⑤-AZAC ⑨-⑩	6	~30	-	~125	200	125	400	320	270	220	200
EZS4 ②-E ⑤-AZMC ⑨-⑩			~12.5								

● A symbol or number is specified where ②⑤⑨⑩ are located in the product name. For details, please refer to "◇Product Number" on page E-80.
● For details on how to read the specification table, please refer to "How to Read Specifications" on page E-24.

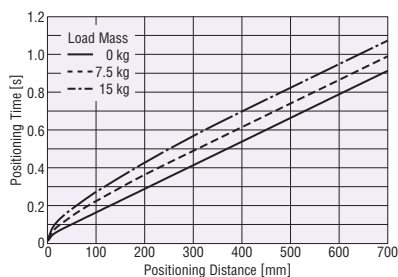
Positioning Distance – Positioning Time

Check the positioning time (reference) from the positioning distance.

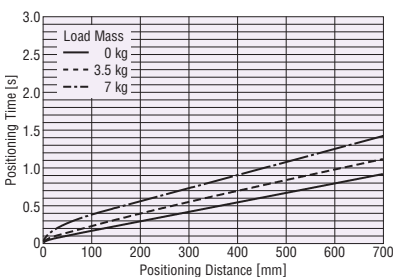
The value by multiplying the positioning time coefficient of the stroke with the positioning time calculated from the graph can be used as a reference for positioning time. Refer to page E-109 for the operating speed and acceleration.

● Lead Screw Pitch 12 mm

◇ Horizontal Direction Installation



◇ Vertical Direction Installation

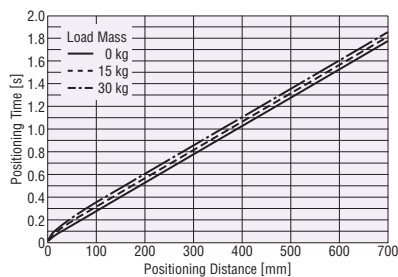


Positioning Time Coefficient

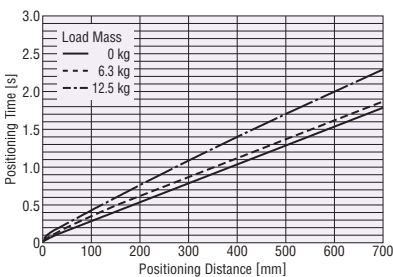
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg
50~500	1.0	1.0	1.0	1.0	1.0	1.0
550	1.2	1.1	1.1	1.2	1.0	1.0
600	1.4	1.3	1.2	1.4	1.2	1.0
650	1.7	1.5	1.4	1.7	1.4	1.2
700	1.9	1.8	1.6	1.9	1.6	1.3

● Lead Screw Pitch 6 mm

◇ Horizontal Direction Installation



◇ Vertical Direction Installation



Positioning Time Coefficient

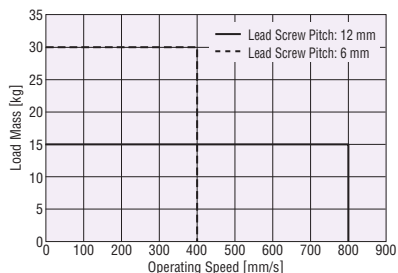
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	15 kg	30 kg	0 kg	6.3 kg	12.5 kg
50~500	1.0	1.0	1.0	1.0	1.0	1.0
550	1.2	1.2	1.2	1.2	1.2	1.0
600	1.5	1.4	1.4	1.5	1.4	1.2
650	1.8	1.7	1.7	1.8	1.7	1.4
700	2.0	1.9	1.9	2.0	1.9	1.6

Note

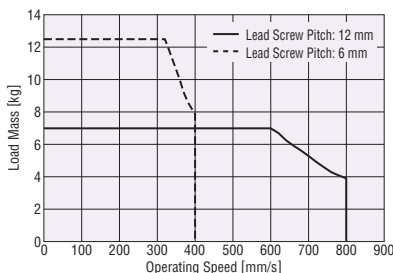
● Starting speed should be 6 mm/s max.

Operating Speed – Load Mass

● Horizontal Direction Installation (Acceleration 3 m/s²)



● Vertical Direction Installation (Acceleration 2 m/s²)



Dimension

- Electric Linear Slides → Page E-99
- Driver → Page E-104

Connection and Operation

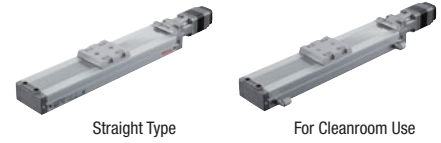
- Built-in Controller Type → Page A-60
- Pulse Input Type → Page A-64

EVS4: Width 74 mm × Height 50 mm 24 VDC Input Straight Type/For Cleanroom Use

α STEP
AZ
Equipped

Maximum Transportable Mass: Horizontal 30 kg/Vertical 14 kg
Stroke: 50 to 700 mm (50 mm Increments)

α STEP
AR
Equipped



Electric Linear Slides Specifications

Drive Method	Ball Screw	Minimum Travel Amount [mm]	0.01	Dynamic Permissible Moment [N·m]	M _r : 8.0 M _v : 8.0 M _a : 27.8					
Repetitive Positioning Accuracy [mm]	±0.02	Traveling Parallelism [mm]	0.03	Static Permissible Moment [N·m]	M _r : 51.2 M _v : 42.5 M _a : 176.0					
Product Name	Lead Screw Pitch [mm]	Transportable Mass [kg]		Thrust [N]	Push Force [N]	Holding Force [N]	Max. Speed by Stroke [mm/s]			
		Horizontal	Vertical				50~550 mm	600 mm	650 mm	700 mm
EVS4-D- α -AZAK- β - γ	12	~15	-	~70	100	70	600	550	460	400
EVS4-D- α -AZMK- β - γ			~7							
EVS4-E- α -AZAK- β - γ	6	~30	-	~140	200	140	300	270	220	200
EVS4-E- α -AZMK- β - γ			~14							

- A symbol or number is specified where α β γ are located in the product name. For details, please refer to "◇Product Number" on page E-82 and E-83.
- For details on how to read the specification table, please refer to "How to Read Specifications" on page E-24.
- For the specification and characteristics of 48 VDC input, please contact the nearest Oriental Motor sales office.

Note

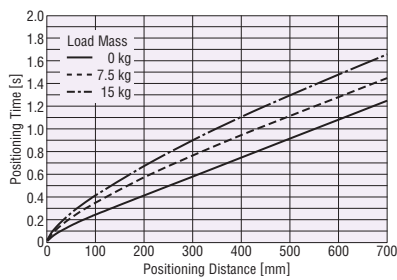
- The maximum speed may be lowered according to the ambient temperature and the length of the motor cable.

Positioning Distance – Positioning Time

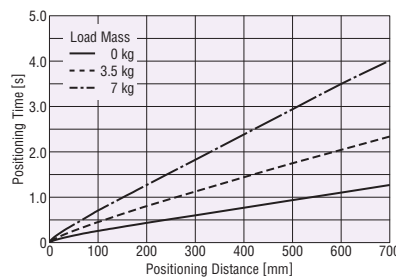
Check the positioning time (reference) from the positioning distance. The value by multiplying the positioning time coefficient of the stroke with the positioning time calculated from the graph can be used as a reference for positioning time. Refer to page E-110 for the operating speed and acceleration.

● Lead Screw Pitch 12 mm

◇ Horizontal Direction Installation



◇ Vertical Direction Installation

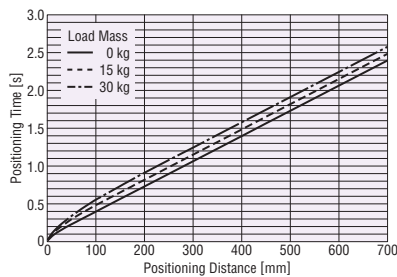


Positioning Time Coefficient

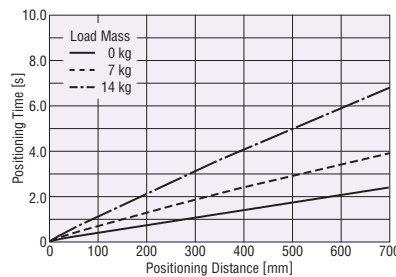
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg
50~550	1.0	1.0	1.0	1.0	1.0	1.0
600	1.1	1.0	1.0	1.1	1.0	1.0
650	1.2	1.1	1.1	1.2	1.0	1.0
700	1.4	1.3	1.2	1.4	1.0	1.0

● Lead Screw Pitch 6 mm

◇ Horizontal Direction Installation



◇ Vertical Direction Installation



Positioning Time Coefficient

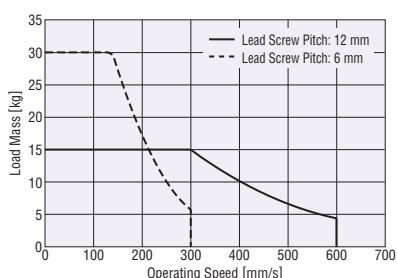
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	15 kg	30 kg	0 kg	7 kg	14 kg
50~550	1.0	1.0	1.0	1.0	1.0	1.0
600	1.1	1.1	1.1	1.1	1.0	1.0
650	1.3	1.3	1.3	1.3	1.0	1.0
700	1.5	1.4	1.4	1.5	1.0	1.0

Note

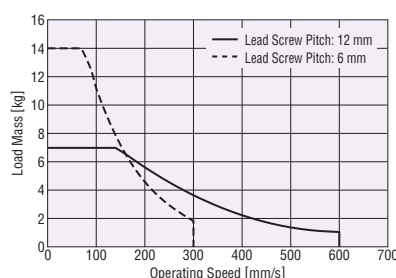
- Starting speed should be 6 mm/s max.

Operating Speed – Load Mass

● Horizontal Direction Installation (Acceleration 3 m/s²)



● Vertical Direction Installation (Acceleration 2 m/s²)



Dimension

- Electric Linear Slides → Page E-98
- Driver → Page E-104

Connection and Operation

- Built-in Controller Type → Page A-205
- Pulse Input Type → Page A-209

EZS4: Width 74 mm × Height 50 mm 24 VDC Input Reversed Motor Type

Maximum Transportable Mass: Horizontal 30 kg/Vertical 12.5 kg
Stroke: 50 to 700 mm (50 mm Increments)



Reversed Motor Type

Electric Linear Slides Specifications

Drive Method	Ball Screw	Minimum Travel Amount [mm]	0.01	Dynamic Permissible Moment [N·m]	M _r : 8.0 M _r : 8.0 M _a : 27.8					
Repetitive Positioning Accuracy [mm]	±0.02	Traveling Parallelism [mm]	0.03	Static Permissible Moment [N·m]	M _r : 51.2 M _r : 42.5 M _a : 176.0					
Product Name	Lead Screw Pitch [mm]	Transportable Mass [kg]		Thrust [N]	Push Force [N]	Holding Force [N]	Maximum Speed by Stroke [mm/s]			
		Horizontal	Vertical				50~550 mm	600 mm	650 mm	700 mm
EZS4②-D⑤-AZAK⑨-⑩	12	~15	-	~70	100	70	600	550	460	400
EZS4②-D⑤-AZMK⑨-⑩			~7							
EZS4②-E⑥-AZAK⑨-⑩	6	~30	-	~125	200	125	300	270	220	200
EZS4②-E⑥-AZMK⑨-⑩			~12.5							

- A symbol or number is specified where ②⑤⑨⑩ are located in the product name. For details, please refer to "◇Product Number" on page E-82.
- For details on how to read the specification table, please refer to "How to Read Specifications" on page E-24.
- For the specification and characteristics of 48 VDC input, please contact the nearest Oriental Motor sales office.

Note

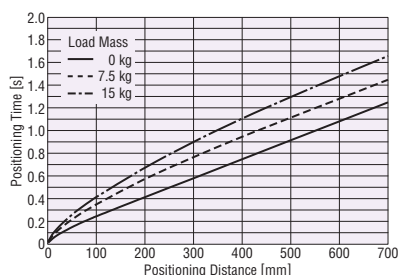
- The maximum speed may be lowered according to the ambient temperature and the length of the motor cable.

Positioning Distance – Positioning Time

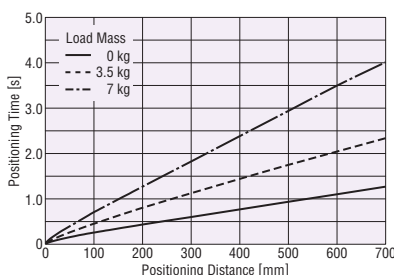
Check the positioning time (reference) from the positioning distance. The value by multiplying the positioning time coefficient of the stroke with the positioning time calculated from the graph can be used as a reference for positioning time. Refer to page E-111 for the operating speed and acceleration.

● Lead Screw Pitch 12 mm

◇ Horizontal Direction Installation



◇ Vertical Direction Installation

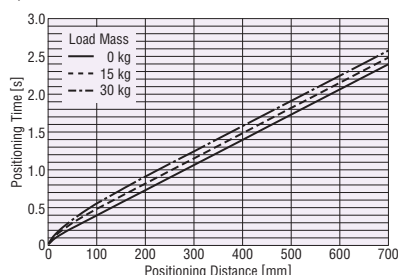


Positioning Time Coefficient

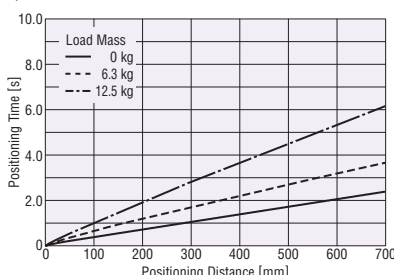
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg
50~550	1.0	1.0	1.0	1.0	1.0	1.0
600	1.1	1.0	1.0	1.1	1.0	1.0
650	1.2	1.1	1.1	1.2	1.0	1.0
700	1.4	1.3	1.2	1.4	1.0	1.0

● Lead Screw Pitch 6 mm

◇ Horizontal Direction Installation



◇ Vertical Direction Installation



Positioning Time Coefficient

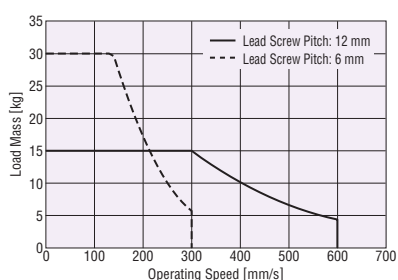
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	15 kg	30 kg	0 kg	6.3 kg	12.5 kg
50~550	1.0	1.0	1.0	1.0	1.0	1.0
600	1.1	1.1	1.1	1.1	1.0	1.0
650	1.3	1.3	1.3	1.3	1.0	1.0
700	1.5	1.4	1.4	1.5	1.0	1.0

Note

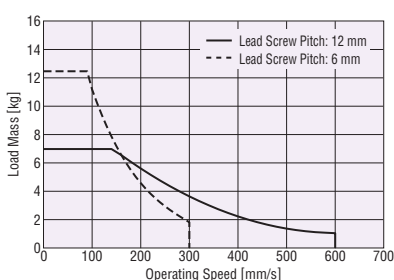
- Starting speed should be 6 mm/s max.

Operating Speed – Load Mass

● Horizontal Direction Installation (Acceleration 3 m/s²)



● Vertical Direction Installation (Acceleration 2 m/s²)



Dimension

- Electric Linear Slides → Page E-99
- Driver → Page E-104

Connection and Operation

- Built-in Controller Type → Page A-205
- Pulse Input Type → Page A-209

Overview, Product Series

Electric Linear Slides

Q/STEP AZ/AR EAS

Q/STEP AZ/AR EZS

Electric Cylinders

Q/STEP AZ/AR EAC

Compact Linear Actuators

Q/STEP AZ DRS2

DRLII

Installation

Hollow Rotary Actuators

Q/STEP AZ/AR DGII

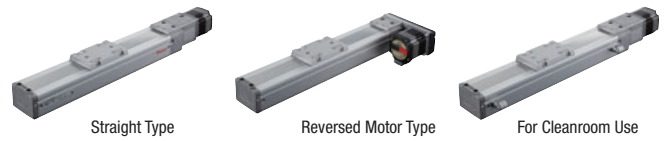
Accessories

EZS6: Width 74 mm × Height 66.5 mm AC Input Straight Type/Reversed Motor Type/For Cleanroom Use

α STEP
AZ
Equipped

Maximum Transportable Mass:
Horizontal 60 kg/Vertical 30 kg
Stroke: 50 to 850 mm (50 mm Increments)

α STEP
AR
Equipped



Electric Linear Slides Specifications

Drive Method	Ball Screw	Minimum Travel Amount [mm]	0.01	Dynamic Permissible Moment [N·m]	M _p : 45.7 M _v : 37.5 M _a : 55.6								
Repetitive Positioning Accuracy [mm]	±0.02	Traveling Parallelism [mm]	0.03	Static Permissible Moment [N·m]	M _p : 290.0 M _v : 187.0 M _a : 340.0								
Product Name	Lead Screw Pitch [mm]	Transportable Mass [kg]		Thrust [N]	Push Force [N]	Holding Force [N]	Maximum Speed by Stroke [mm/s]						
		Horizontal	Vertical				50~550 mm	600 mm	650 mm	700 mm	750 mm	800 mm	850 mm
EZS6 ②③-D⑤-AZAC ⑨-⑩	12	~30	—	~200	400	200	800	640	550	470	420	360	
EZS6 ②③-D⑤-AZMC ⑨-⑩			~15										
EZS6 ②③-E⑤-AZAC ⑨-⑩	6	~60	—	~400 [~360]*	500	400 [360]*	400	350	300	260	230	200	180
EZS6 ②③-E⑤-AZMC ⑨-⑩			~30										

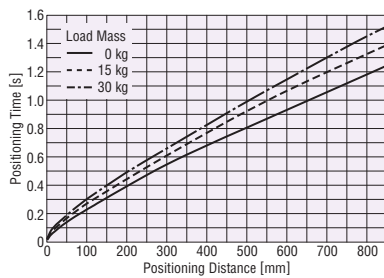
- A symbol or number is specified where ②③⑤⑨⑩ are located in the product name. For details, please refer to "◇Product Number" on page E-80 and E-81.
- For details on how to read the specification table, please refer to "How to Read Specifications" on page E-24.
- * The parentheses [] indicate the specifications for the reversed motor type.

Positioning Distance – Positioning Time

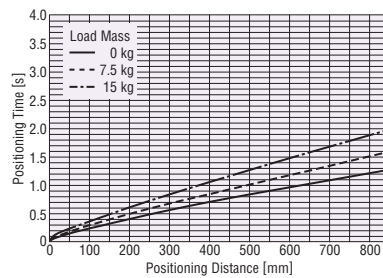
Check the positioning time (reference) from the positioning distance. The value by multiplying the positioning time coefficient of the stroke with the positioning time calculated from the graph can be used as a reference for positioning time. Refer to page E-112 for the operating speed and acceleration.

● Lead Screw Pitch 12 mm

◇ Horizontal Direction Installation



◇ Vertical Direction Installation

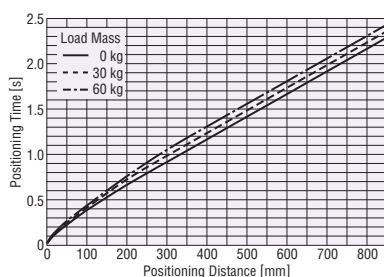


Positioning Time Coefficient

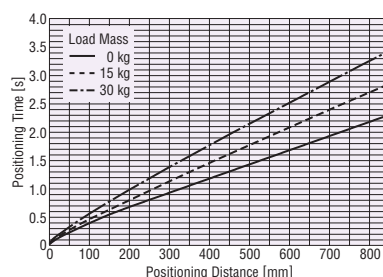
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	15 kg	30 kg	0 kg	7.5 kg	15 kg
50~600	1.0	1.0	1.0	1.0	1.0	1.0
650	1.1	1.0	1.0	1.1	1.0	1.0
700	1.3	1.1	1.0	1.2	1.1	1.0
750	1.5	1.3	1.2	1.4	1.2	1.0
800	1.6	1.5	1.4	1.6	1.3	1.1
850	1.9	1.7	1.6	1.9	1.5	1.2

● Lead Screw Pitch 6 mm

◇ Horizontal Direction Installation



◇ Vertical Direction Installation



Positioning Time Coefficient

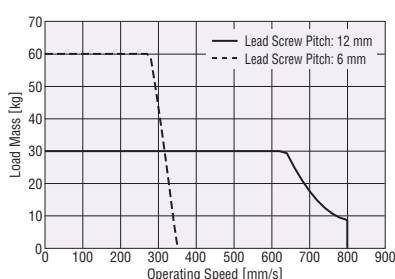
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	30 kg	60 kg	0 kg	15 kg	30 kg
50~550	1.0	1.0	1.0	1.0	1.0	1.0
600	1.1	1.1	1.1	1.1	1.0	1.0
650	1.2	1.2	1.2	1.2	1.0	1.0
700	1.4	1.4	1.3	1.4	1.2	1.0
750	1.6	1.6	1.5	1.6	1.3	1.1
800	1.9	1.8	1.7	1.8	1.5	1.3
850	2.1	2.0	2.0	2.1	1.7	1.4

Note

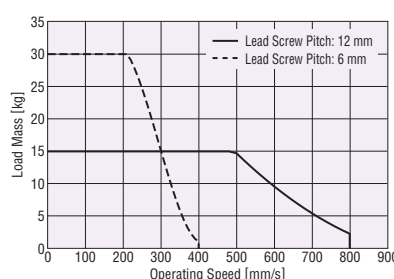
- Starting speed should be 6 mm/s max.

Operating Speed – Load Mass

● Horizontal Direction Installation (Acceleration 3 m/s²)



● Vertical Direction Installation (Acceleration 2 m/s²)



Dimension

- Electric Linear Slides
→ Page E-100, E-101

- Driver
→ Page E-104

Connection and Operation

- Built-in Controller Type
→ Page A-60
- Pulse Input Type
→ Page A-64

EZS6: Width 74 mm × Height 66.5 mm 24 VDC Input Straight Type/Reversed Motor Type/For Cleanroom Use

Maximum Transportable Mass:
Horizontal 60 kg/Vertical 30 kg
Stroke: 50 to 850 mm (50 mm Increments)



Electric Linear Slides Specifications

Drive Method	Ball Screw	Minimum Travel Amount [mm]	0.01	Dynamic Permissible Moment [N·m]	M _r : 45.7 M _v : 37.5 M _a : 55.6						
Repetitive Positioning Accuracy [mm]	±0.02	Traveling Parallelism [mm]	0.03	Static Permissible Moment [N·m]	M _r : 290.0 M _v : 187.0 M _a : 340.0						
Product Name	Lead Screw Pitch [mm]	Transportable Mass [kg]	Thrust [N]	Push Force [N]	Holding Force [N]	Maximum Speed by Stroke [mm/s]					
						Horizontal	Vertical	50~650 mm	700 mm	750 mm	800 mm
EZS6 2③-D⑤-AZAK 9-⑩	12	~30	-	~200	400	200	600	550	470	420	360
EZS6 2③-D⑤-AZMK 9-⑩			~15								
EZS6 2③-E⑤-AZAK 9-⑩	6	~60	-	~400	500	400	300	260	230	200	180
EZS6 2③-E⑤-AZMK 9-⑩			~30								

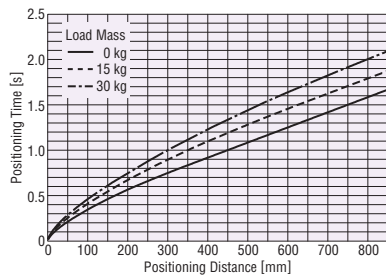
- A symbol or number is specified where ②③⑤⑨⑩ are located in the product name. For details, please refer to "◇Product Number" on page E-82 and E-83.
- For details on how to read the specification table, please refer to "How to Read Specifications" on page E-24.
- For the specification and characteristics of 48 VDC input, please contact the nearest Oriental Motor sales office.
- * The parentheses [] indicate the specifications for the reversed motor type.

Positioning Distance – Positioning Time

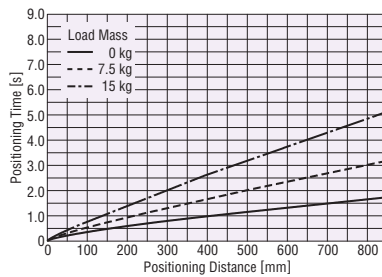
Check the positioning time (reference) from the positioning distance.
The value by multiplying the positioning time coefficient of the stroke with the positioning time calculated from the graph can be used as a reference for positioning time. Refer to page E-113 for the operating speed and acceleration.

● Lead Screw Pitch 12 mm

◇ Horizontal Direction Installation



◇ Vertical Direction Installation

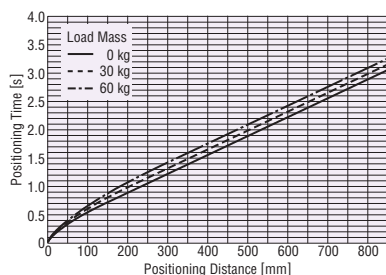


Positioning Time Coefficient

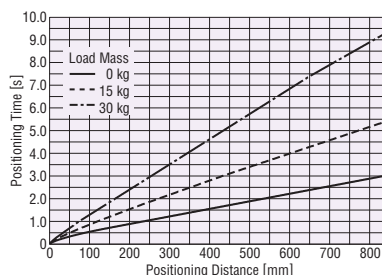
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	15 kg	30 kg	0 kg	7.5 kg	15 kg
50~650	1.0	1.0	1.0	1.0	1.0	1.0
700	1.0	1.0	1.0	1.0	1.0	1.0
750	1.2	1.1	1.0	1.1	1.0	1.0
800	1.3	1.2	1.1	1.2	1.0	1.0
850	1.5	1.3	1.2	1.4	1.0	1.0

● Lead Screw Pitch 6 mm

◇ Horizontal Direction Installation



◇ Vertical Direction Installation



Positioning Time Coefficient

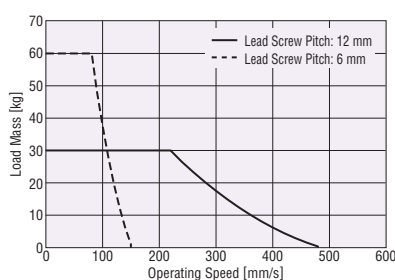
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	30 kg	60 kg	0 kg	15 kg	30 kg
50~650	1.0	1.0	1.0	1.0	1.0	1.0
700	1.1	1.1	1.1	1.1	1.0	1.0
750	1.2	1.2	1.2	1.2	1.0	1.0
800	1.4	1.4	1.3	1.4	1.0	1.0
850	1.6	1.5	1.5	1.6	1.0	1.0

Note

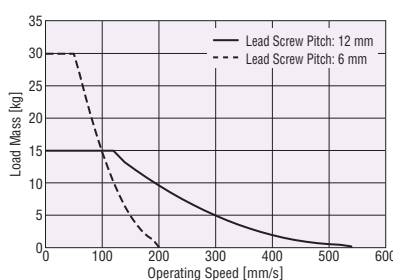
- Starting speed should be 6 mm/s max.

Operating Speed – Load Mass

● Horizontal Direction Installation (Acceleration 3 m/s²)



● Vertical Direction Installation (Acceleration 2 m/s²)



Dimension

- Electric Linear Slides
→ Page E-100, E-101
- Driver
→ Page E-104

Connection and Operation

- Built-in Controller Type
→ Page A-205
- Pulse Input Type
→ Page A-209

Motor Specifications (AZ Series)

General Specifications

AC Input:  DC Input: 

Item		AC Input	DC Input
Thermal Class		130 (B) [The AC input is certified as compliant with UL 105 (A).]	
Insulation Resistance		100 M Ω or more when a 500 VDC megger is applied between the following places: <ul style="list-style-type: none"> Case – Motor Windings Case – Electromagnetic Brake Windings*1 	
Dielectric Strength		Sufficient to withstand the following for 1 minute: <ul style="list-style-type: none"> Case – Motor Windings 1.5 kVAC 50 Hz or 60 Hz Case – Electromagnetic Brake Windings*1 1.5 kVAC 50 Hz or 60 Hz 	Sufficient to withstand the following for 1 minute: <ul style="list-style-type: none"> Case – Motor Windings 1.0 kVAC 50 Hz or 60 Hz Case – Electromagnetic Brake Windings*1 1.0 kVAC 50 Hz or 60 Hz
Operating Environment (In operation)	Ambient Temperature	0~+40°C (Non-freezing)	
	Ambient Humidity	85% or less (Non-condensing)	
	Atmosphere	No corrosive gases or dust. The product should not be exposed to water, oil or other liquids.	
Degree of Protection*2		IP66 (excluding the installation surface of the motor and slide parts and the connector parts)	
Multiple Rotation Detection Range in Power OFF State		\pm 900 Rotation (1800 rotations)	

*1 Only for types with an electromagnetic brake.

*2 Only for motor parts.

Note

- Do not measure insulation resistance or perform a dielectric strength test while the electric linear slides and drivers are connected. Also, do not perform these tests on the motor absolute sensor part.

Driver Specifications (AZ Series)

General Specifications

AC Input:  DC Input: 

Item		AC Input		DC Input	
		Built-in Controller Type	Pulse Input Type	Built-in Controller Type	Pulse Input Type
Insulation Resistance		100 M Ω or more when a 500 VDC megger is applied between the following places: <ul style="list-style-type: none"> Protective Earth Terminal – Power Supply Terminal Encoder Connector – Power Supply Terminal I/O Signal Terminal – Power Supply Terminal 		100 M Ω or more when a 500 VDC megger is applied between the following places: <ul style="list-style-type: none"> Protective Earth Terminal – Power Supply Terminal 	
Dielectric Strength		Sufficient to withstand the following for 1 minute: <ul style="list-style-type: none"> Protective Earth Terminal – Power Supply Terminal 1.5 kVAC, 50 Hz or 60 Hz Encoder Connector – Power Supply Terminal 1.8 kVAC, 50 Hz or 60 Hz I/O Signal Terminal – Power Supply Terminal 1.8 kVAC, 50 Hz or 60 Hz 		-	
Operating Environment (In operation)	Ambient Temperature	0~+55°C (Non-freezing)		0~+50°C (Non-freezing)	
	Ambient Humidity	85% or less (Non-condensing)			
	Atmosphere	No corrosive gases or dust. The product should not be exposed to water, oil or other liquids.			
Degree of Protection		IP10	IP20	IP10	
Multiple Rotation Detection Range in Power OFF State		\pm 900 Rotation (1800 rotations)			

* When a heat sink is installed that is equivalent to an aluminum plate size of 200 × 200 mm and 2 mm thickness

Note

- Do not measure insulation resistance or perform a dielectric strength test while the electric linear slides and drivers are connected.

● Power Supply Input Specifications

◇ AC Input Type (Built-in Controller Type, Pulse Input Type)

Item		EZS3, EZS4	EZS6
Power Supply Input	Voltage and Frequency	Single-Phase 200-240 VAC -15~+6% 50/60 Hz	
	Input Current A	1.7	2.3
Control Power Supply		24 VDC±5%*1 0.25 A (0.33 A)*2	24 VDC±5%*1 0.25 A (0.5 A)*2

*1 For the type with an electromagnetic brake, the 24 VDC±4% specification applies if the wiring distance between the motor and driver is extended to 20 m using an accessory cable (sold separately).

*2 The brackets () indicate the specifications for the product with an electromagnetic brake.

◇ DC Input Type (Built-in Controller Type, Pulse Input Type)

Item		EZS3, EZS4	EZS6
Power Supply Input	Voltage	24 VDC±5%*1/48 VDC±5%	
	Input Current A	1.72 (1.8)*2	3.55 (3.8)*2

*1 For the type with an electromagnetic brake, the 24 VDC±4% specification applies if the wiring distance between the motor and driver is extended to 20 m using an accessory cable (sold separately).

*2 The brackets () indicate the specifications for the product with an electromagnetic brake.

● Built-in Controller Type RS-485 Communication Specifications

Protocol	Modbus RTU Mode
Electrical Characteristics	EIA-485 Based, Straight Cable Use shielded twisted-pair cables (TIA/EIA-568B CAT5e or better recommended). The max. total extension length is 50 m.
Communication Mode	Half duplex and start-stop synchronization (data: 8 bits, stop bit: 1 bit or 2 bits, parity: none, even, or odd)
Baud Rate	9600 bps/19200 bps/38400 bps/57600 bps/115200 bps/230400 bps are available
Connection Type	Up to 31 units can be connected to a single programmable controller (master equipment).

Overview,
Product
Series

Electric
Linear
Slides

Q_{STEP}
AZ/AR
EAS

Q_{STEP}
AZ/AR
EVS

Electric
Cylinders

Q_{STEP}
AZ/AR
EAC

Compact
Linear
Actuators

Q_{STEP}
AZ
DRS2

DRLII

Installation

Hollow
Rotary
Actuators

Q_{STEP}
AZ/AR
DGII

Accessories

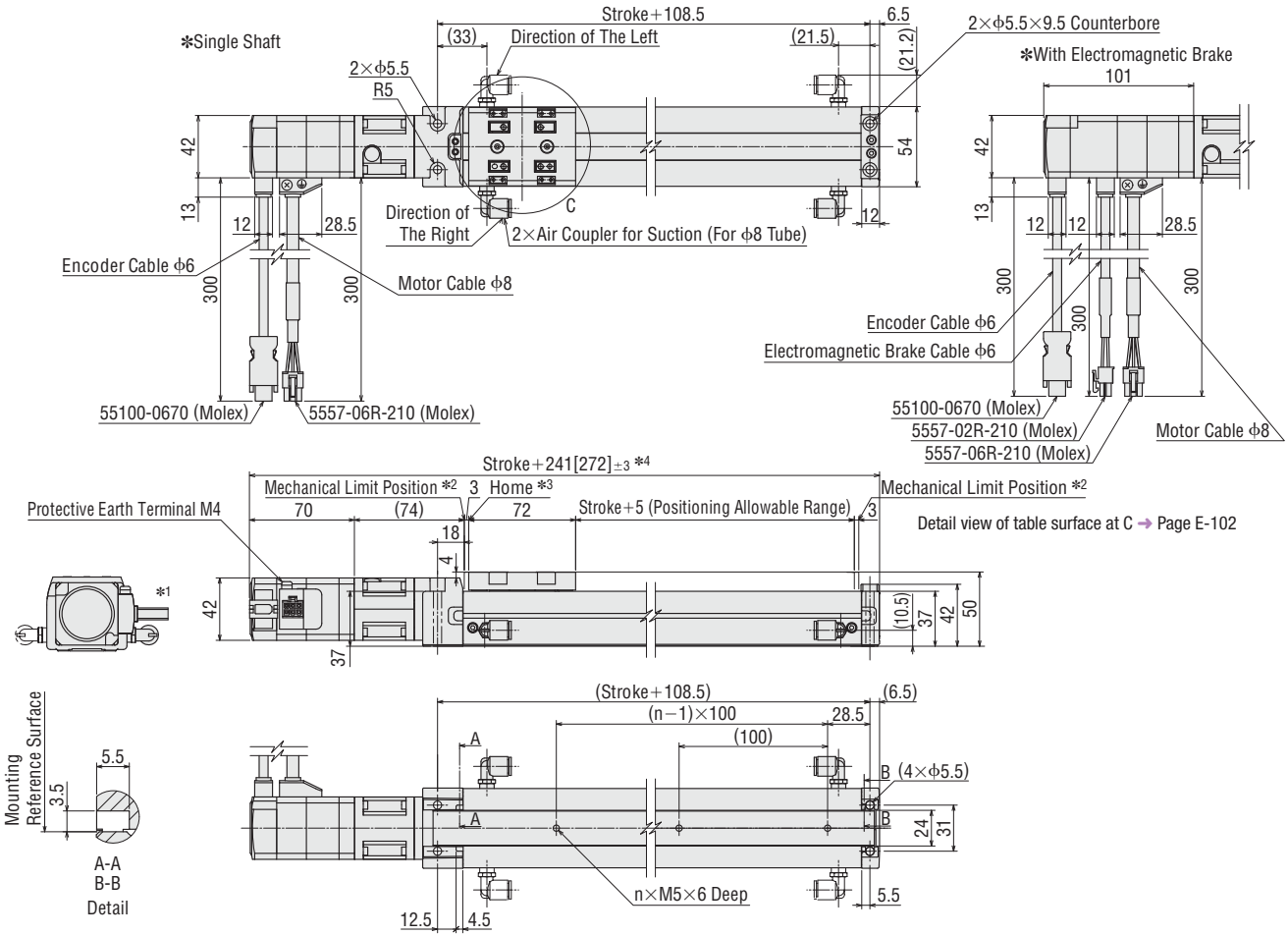
Dimensions Unit: mm

● Electric Linear Slide

◇ EZS3 Straight Type/For Cleanroom Use

α STEP
AZ
Equipped

α STEP
AR
Equipped

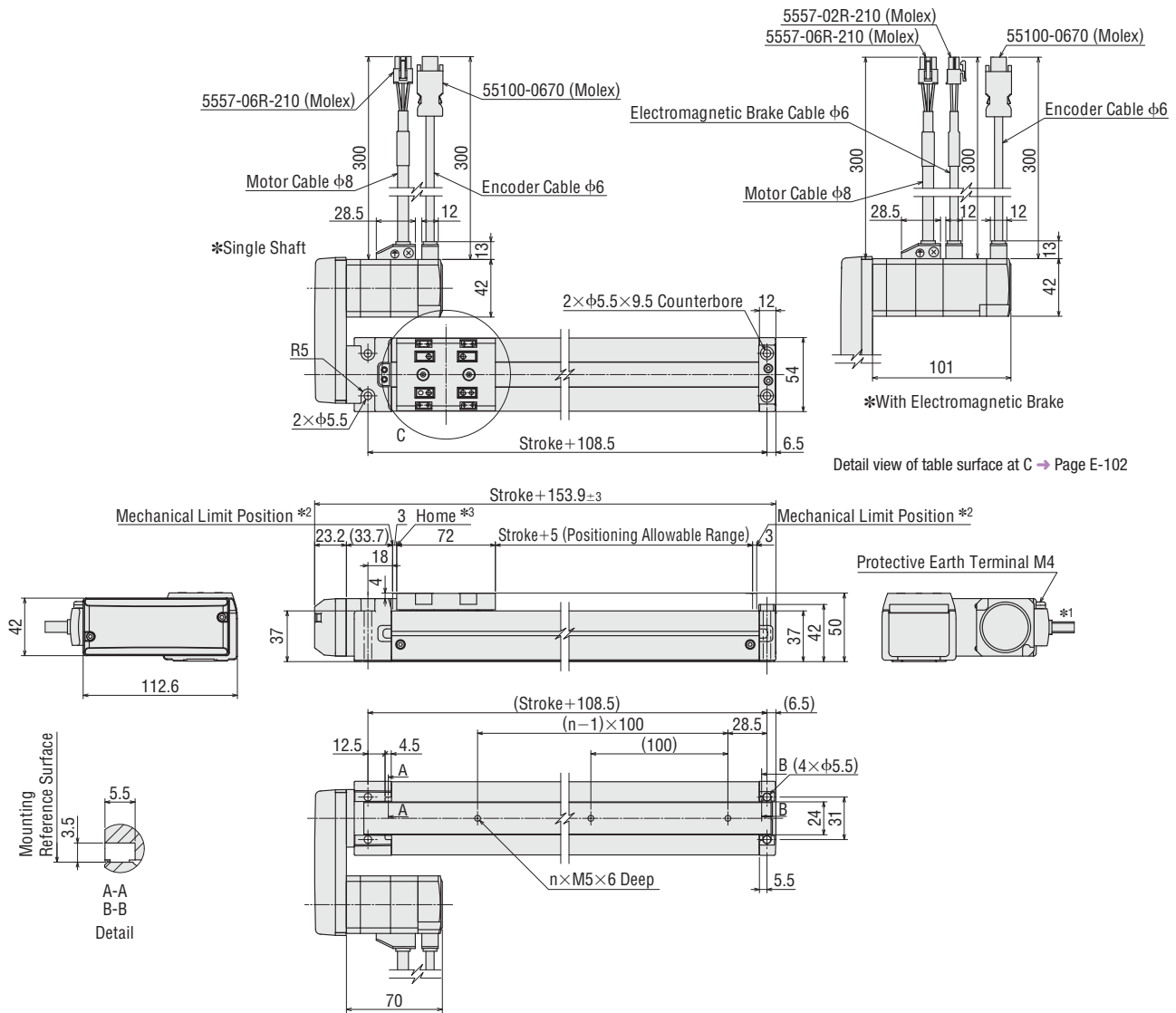


- *1 The cable outlet direction can be changed in 90° intervals in four directions.
- *2 At the push-motion return-to-home operation, the table moves to the mechanical limit position.
- *3 When the accessory sensor set (sold separately) is used, the home position is different.
- *4 The brackets [] indicate the values for the electromagnetic brake product.
- The figure above is for Cleanroom Use. Straight type is not equipped with air couplers for suction.

Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	
Hole Coefficient (n)	2	2	3	3	4	4	5	5	6	6	7	7	8	8	
Mass [kg]	Single Shaft	1.6	1.7	1.9	2.0	2.2	2.3	2.5	2.6	2.8	2.9	3.1	3.2	3.4	3.5
	With Electromagnetic Brake	1.7	1.9	2.0	2.2	2.3	2.5	2.6	2.8	2.9	3.1	3.2	3.4	3.5	3.7

● Dimensions for linear slide installation → Page E-103

◇ **EZS3** Reversed Motor Type (Left Side)



Detail view of table surface at C → Page E-102

- *1 The cable outlet direction can be changed in 90° intervals in three directions.
- *2 At the push-motion return-to-home operation, the table moves to the mechanical limit position.
- *3 When the accessory sensor set (sold separately) is used, the home position is different.
- The figure above is for the left reversed motor type. For the right reversed motor type, the motor is located on the opposite side with the slider part center.

Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	
Hole Coefficient (n)	2	2	3	3	4	4	5	5	6	6	7	7	8	8	
Mass [kg]	Single Shaft	1.6	1.7	1.9	2.0	2.2	2.3	2.5	2.6	2.8	2.9	3.1	3.2	3.4	3.5
	With Electromagnetic Brake	1.7	1.9	2.0	2.2	2.3	2.5	2.6	2.8	2.9	3.1	3.2	3.4	3.5	3.7

● Dimensions for linear slide installation → Page E-103

Overview, Product Series

Electric Linear Slides

QSTEP AZ/AR EAS

QSTEP AZ/AR EZS

Electric Cylinders

QSTEP AZ/AR EAC

Compact Linear Actuators

QSTEP AZ DRS2

DRLII

Installation

Hollow Rotary Actuators

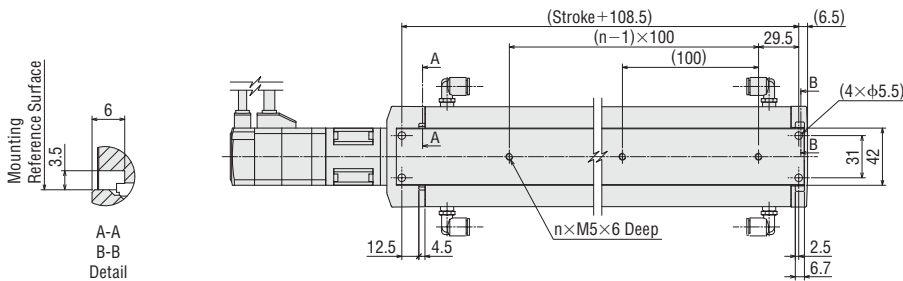
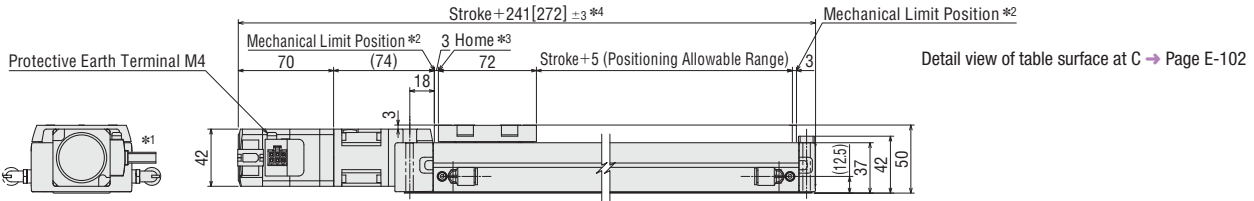
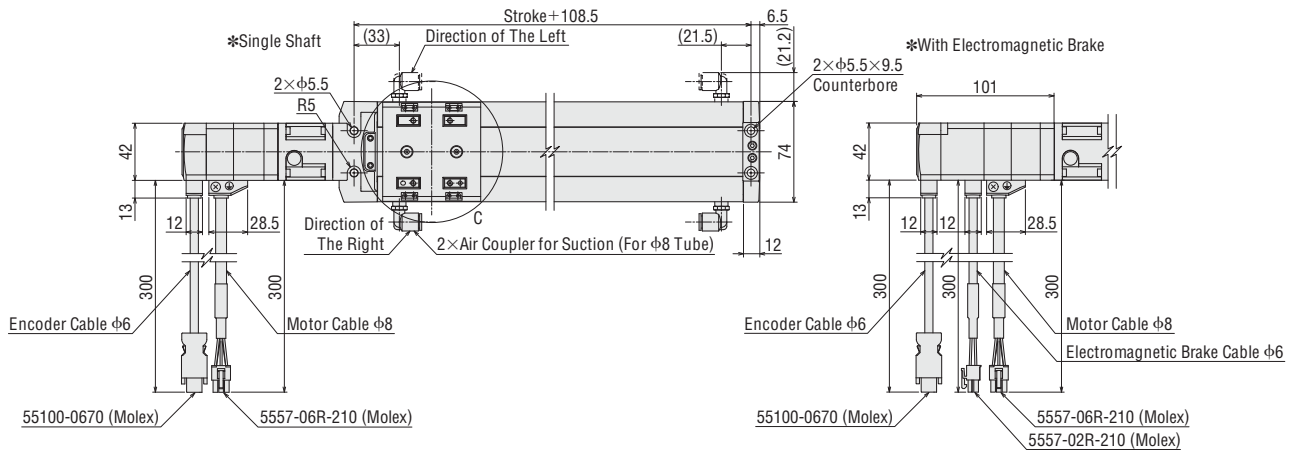
QSTEP AZ/AR DGII

Accessories

◇EZS4 Straight Type/For Cleanroom Use

α STEP
AZ
Equipped

α STEP
AR
Equipped

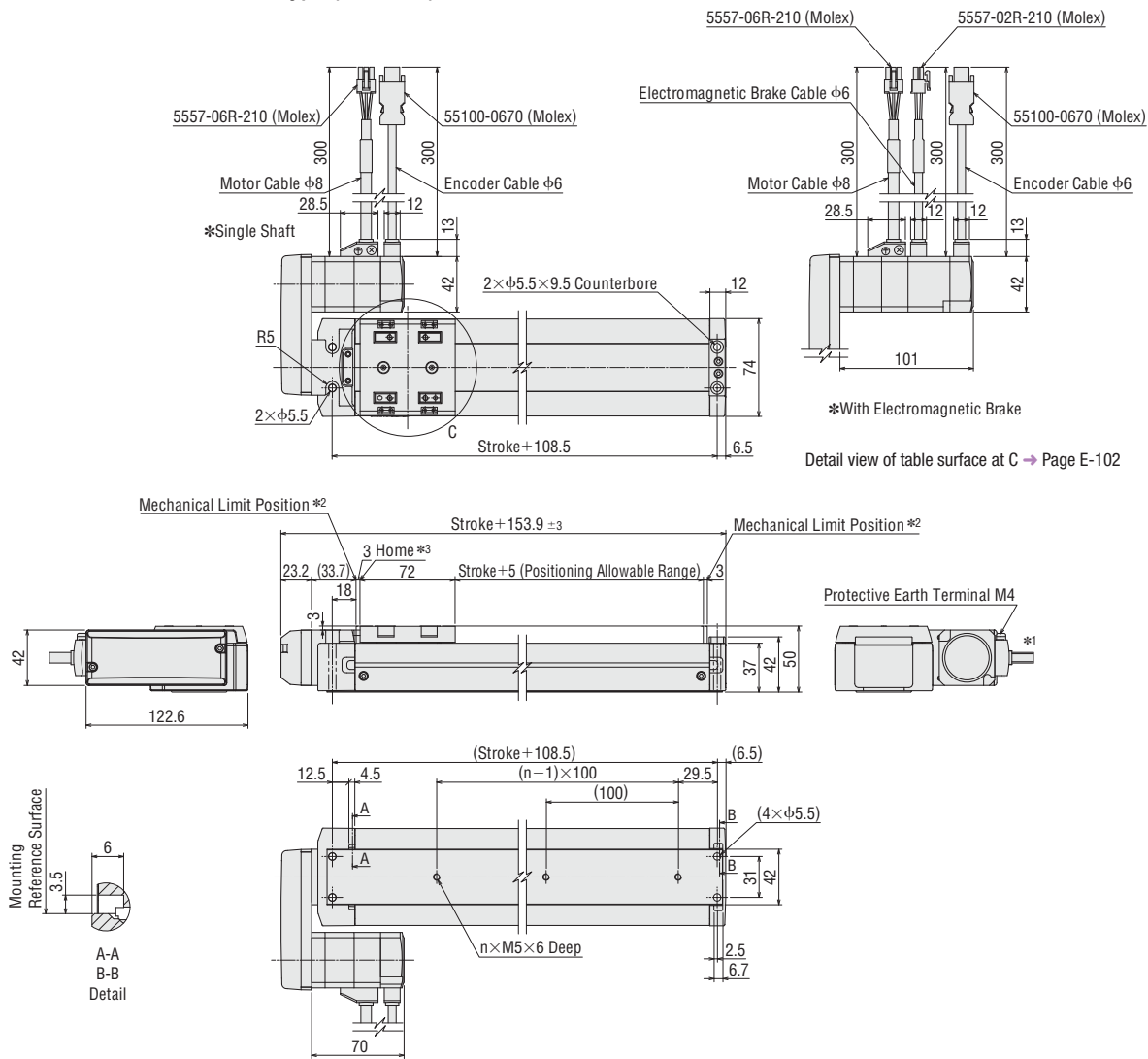


- *1 The cable outlet direction can be changed in 90° intervals in four directions.
- *2 At the push-motion return-to-home operation, the table moves to the mechanical limit position.
- *3 When the accessory sensor set (sold separately) is used, the home position is different.
- *4 The brackets [] indicate the values for the electromagnetic brake product.
- The figure above is for Cleanroom Use. Straight type is not equipped with air couplers for suction.

Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	
Hole Coefficient (n)	2	2	3	3	4	4	5	5	6	6	7	7	8	8	
Mass [kg]	Single Shaft	2.0	2.2	2.5	2.7	2.9	3.2	3.4	3.6	3.8	4.1	4.3	4.5	4.7	5.0
	With Electromagnetic Brake	2.2	2.4	2.6	2.9	3.1	3.3	3.5	3.8	4.0	4.2	4.5	4.7	4.9	5.1

● Dimensions for linear slide installation → Page E-103

◇ **EZS4** Reversed Motor Type (Left Side)



- *1 The cable outlet direction can be changed in 90° intervals in three directions.
- *2 At the push-motion return-to-home operation, the table moves to the mechanical limit position.
- *3 When the accessory sensor set (sold separately) is used, the home position is different.
- The figure above is for the left reversed motor type. For the right reversed motor type, the motor is located on the opposite side with the slider part center.

Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	
Hole Coefficient (n)	2	2	3	3	4	4	5	5	6	6	7	7	8	8	
Mass [kg]	Single Shaft	2.0	2.2	2.5	2.7	2.9	3.2	3.4	3.6	3.8	4.1	4.3	4.5	4.7	5.0
	With Electromagnetic Brake	2.2	2.4	2.6	2.9	3.1	3.3	3.5	3.8	4.0	4.2	4.5	4.7	4.9	5.1

● Dimensions for linear slide installation → Page E-103

Overview,
Product
Series

Electric
Linear
Slides

QSTEP
AZ/AR
EAS

QSTEP
AZ/AR
EZS

Electric
Cylinders

QSTEP
AZ/AR
EAC

Compact
Linear
Actuators

QSTEP
AZ
DRS2

DRLII

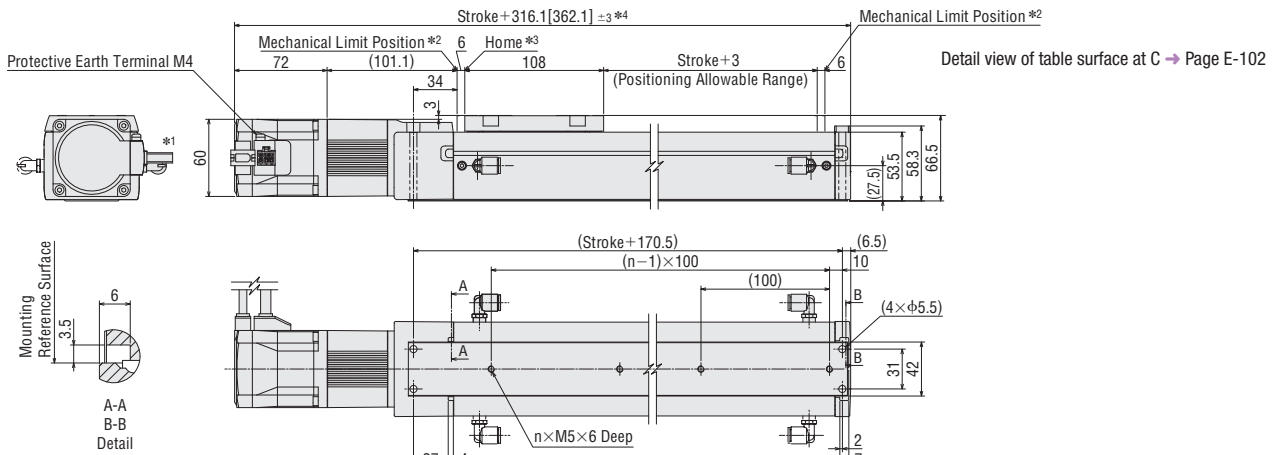
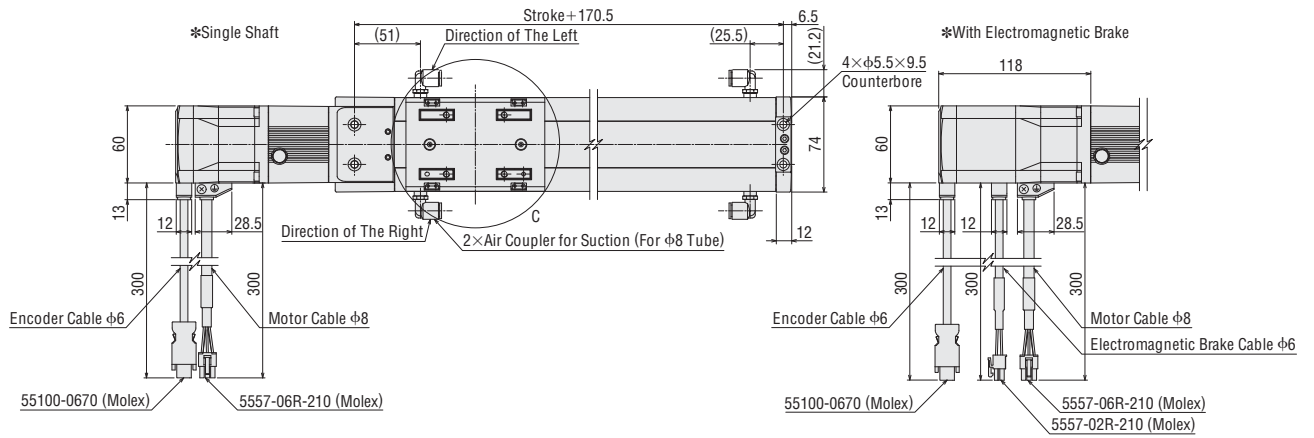
Installation

Hollow
Rotary
Actuators

QSTEP
AZ/AR
DGII

Accessories

◇ **EVS6** Straight Type/For Cleanroom Use



- *1 The cable outlet direction can be changed in 90° intervals in four directions.
- *2 At the push-motion return-to-home operation, the table moves to the mechanical limit position.
- *3 When the accessory sensor set (sold separately) is used, the home position is different.
- *4 The brackets [] indicate the values for the electromagnetic brake product.
- The figure above is for Cleanroom Use. Straight type is not equipped with air couplers for suction.

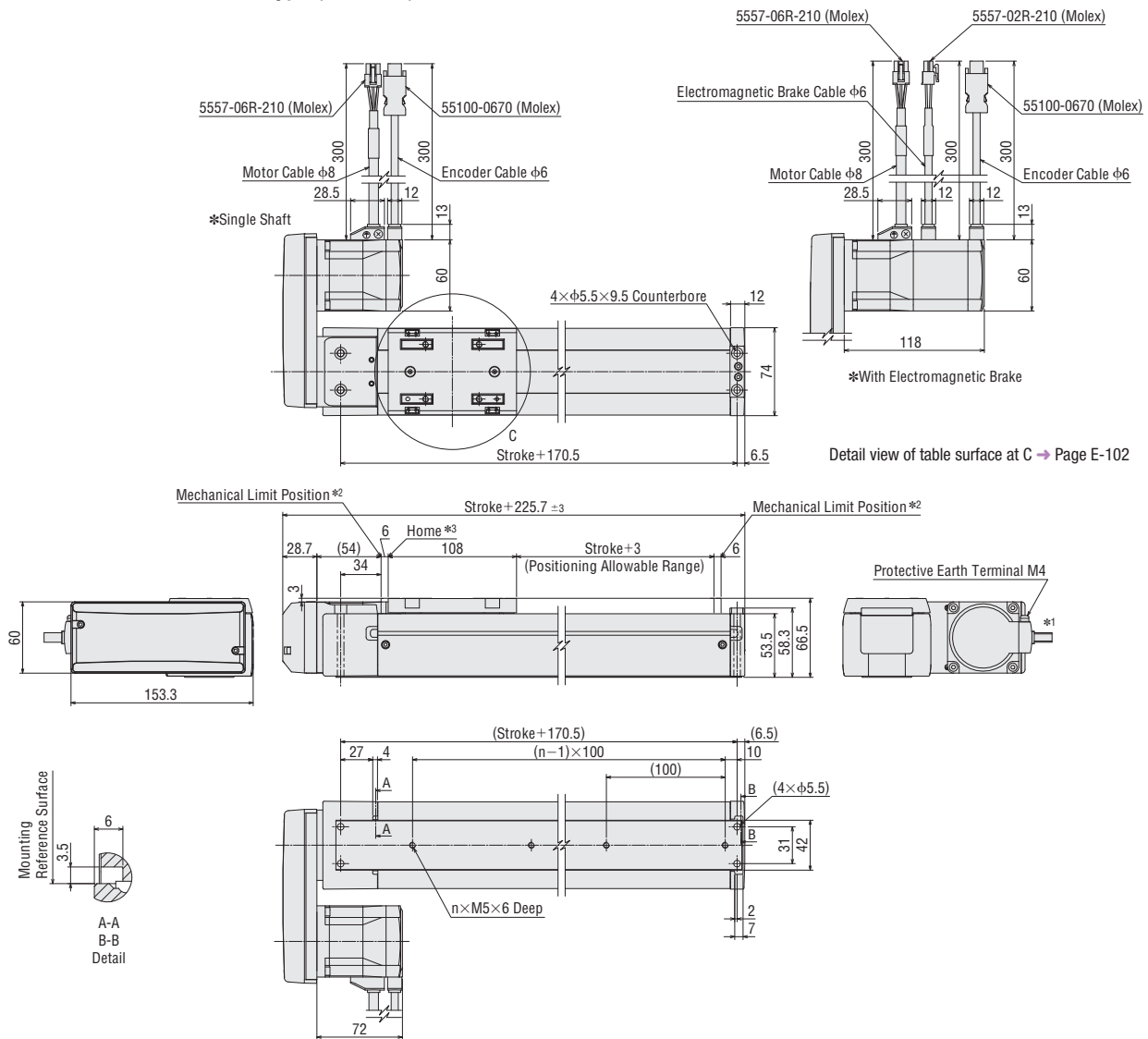
Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	
Hole Coefficient (n)	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	
Mass [kg]	Single Shaft	3.8	4.1	4.3	4.6	4.8	5.1	5.3	5.6	5.9	6.1	6.4	6.6	6.9	7.1	7.4	7.6	7.9
	With Electromagnetic Brake	4.2	4.4	4.7	5.0	5.2	5.5	5.7	6.0	6.2	6.5	6.8	7.0	7.3	7.5	7.8	8.0	8.3

● Dimensions for linear slide installation → Page E-103

α STEP
AZ
Equipped

α STEP
AR
Equipped

◆ **EZS6** Reversed Motor Type (Left Side)



- *1 The cable outlet direction can be changed in 90° intervals in three directions.
- *2 At the push-motion return-to-home operation, the table moves to the mechanical limit position.
- *3 When the accessory sensor set (sold separately) is used, the home position is different.
- The figure above is for the left reversed motor type. For the right reversed motor type, the motor is located on the opposite side with the slider part center.

Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	
Hole Coefficient (n)	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	
Mass [kg]	Single Shaft	3.8	4.1	4.3	4.6	4.8	5.1	5.3	5.6	5.9	6.1	6.4	6.6	6.9	7.1	7.4	7.6	7.9
	With Electromagnetic Brake	4.2	4.4	4.7	5.0	5.2	5.5	5.7	6.0	6.2	6.5	6.8	7.0	7.3	7.5	7.8	8.0	8.3

● Dimensions for linear slide installation → Page E-103

Overview, Product Series

Electric Linear Slides

QSTEP AZ/AR EAS

QSTEP AZ/AR EZS

Electric Cylinders

QSTEP AZ/AR EAC

Compact Linear Actuators

QSTEP AZ DRS2

DRLII

Installation

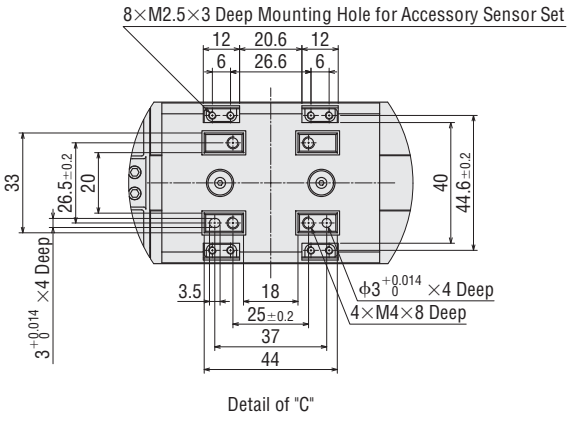
Hollow Rotary Actuators

QSTEP AZ/AR DGII

Accessories

◇ Detail View of Table Surface at C Unit: mm

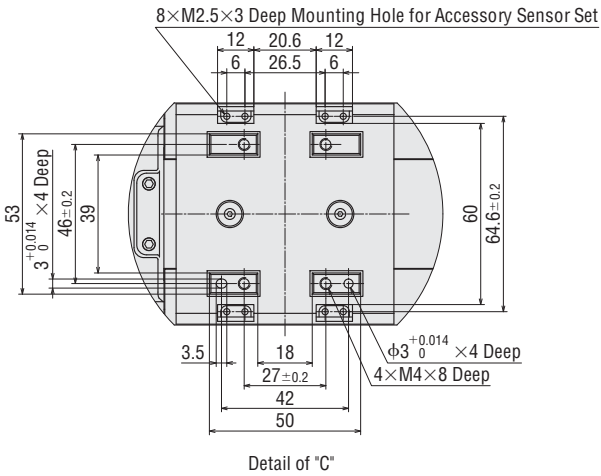
•EZS3



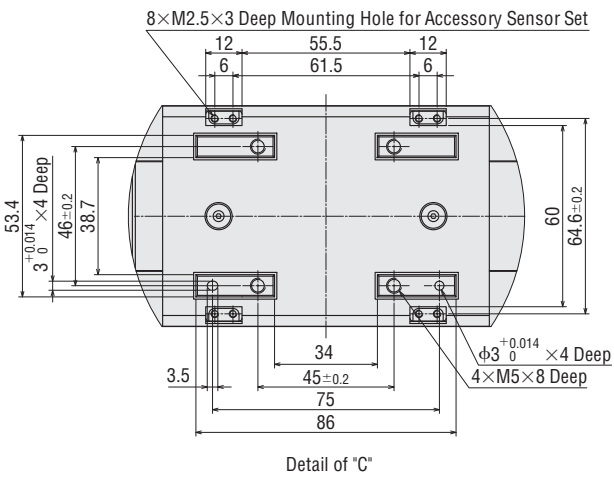
α STEP
AZ
Equipped

α STEP
AR
Equipped

•EZS4

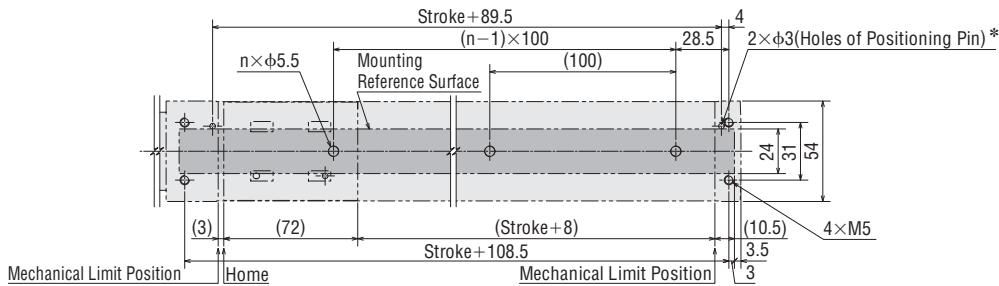


•EZS6



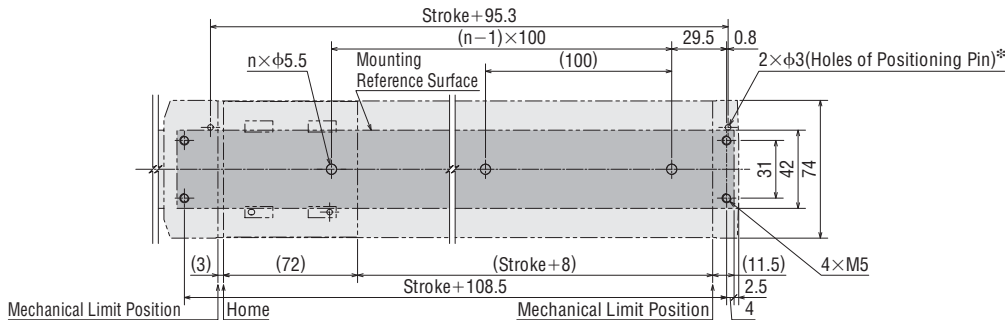
◇ Dimensions for Linear Slide Installation Unit: mm

•EZS3



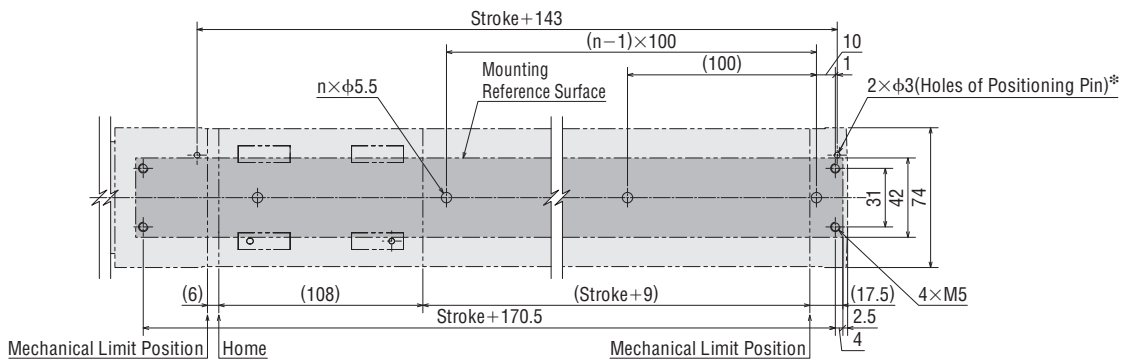
*The installation reference surface can be set on either side. The above figure assumes that the linear slide is installed on its top surface.

•EZS4



*The installation reference surface can be set on either side. The above figure assumes that the linear slide is installed on its top surface.

•EZS6



*The installation reference surface can be set on either side. The above figure assumes that the linear slide is installed on its top surface.

Overview,
Product
Series

Electric
Linear
Slides

Q_SSTEP
AZ/AR
EAS

Q_SSTEP
AZ/AR
EZS

Electric
Cylinders

Q_SSTEP
AZ/AR
EAC

Compact
Linear
Actuators

Q_SSTEP
AZ
DRS2

DRLII

Installation

Hollow
Rotary
Actuators

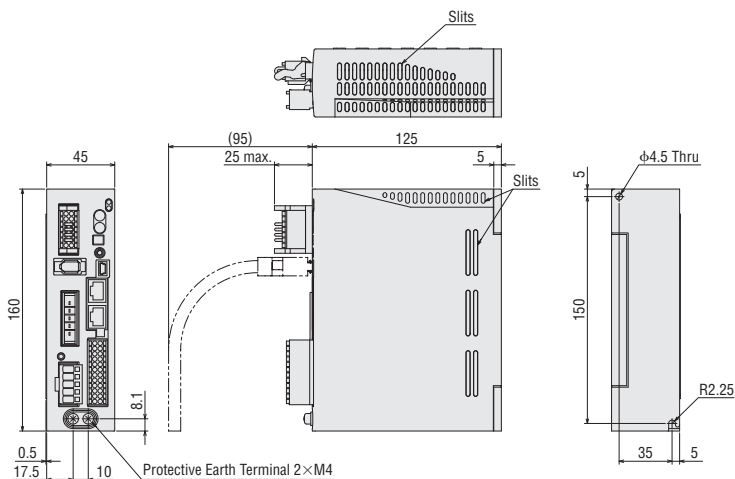
Q_SSTEP
AZ/AR
DGII

Accessories

● Driver

◇ Built-in Controller Type AC Input (AZD-CD)

Mass: 0.65 kg



● Included

Connector for Main Power/Regeneration Unit (CN4)

Connector: 05JFAT-SAXGDK-H5.0
(J.S.T.MFG.CO.,LTD.)

I/O Signals Connector (CN5)

Connector: DFMC1,5/12-ST-3,5
(PHOENIX CONTACT)

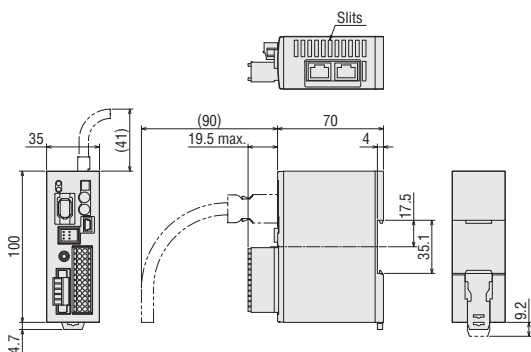
Connector for 24 VDC Power Supply Input/Electromagnetic Brake Connection/Regeneration Unit Thermal Input/Power Shut Down Signal I/O (CN1)

Connector: DFMC1,5/7-ST-3,5-LR
(PHOENIX CONTACT)

Connector Wiring Lever: J-FAT-0T
(J.S.T.MFG.CO.,LTD.)

◇ Built-in Controller Type DC Input (AZD-KD)

Mass: 0.15 kg



● Included

Connector for Main Power Supply/Electromagnetic Brake Connection (CN1)

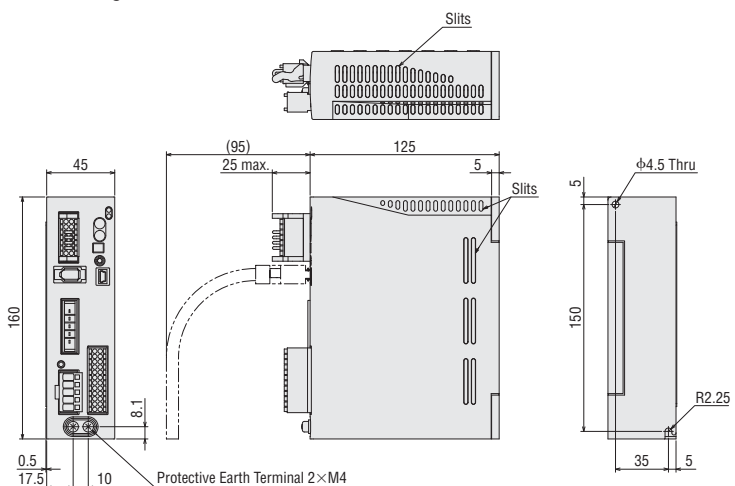
Connector: MC1,5/5-STF-3,5
(PHOENIX CONTACT)

I/O Signals Connector (CN4)

Connector: DFMC1,5/12-ST-3,5
(PHOENIX CONTACT)

◇ Pulse Input Type AC Input (AZD-C)

Mass: 0.65 kg



● Included

Connector for Main Power/Regeneration Unit (CN4)

Connector: 05JFAT-SAXGDK-H5.0
(J.S.T.MFG.CO.,LTD.)

I/O Signals Connector (CN5)

Connector: DFMC1,5/12-ST-3,5
(PHOENIX CONTACT)

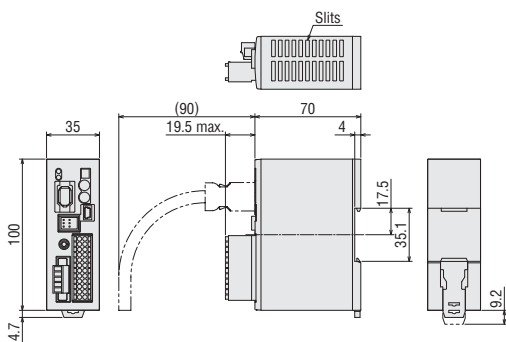
Connector for 24 VDC Power Supply Input/Electromagnetic Brake Connection/Regeneration Unit Thermal Input/Power Shut Down Signal I/O (CN1)

Connector: DFMC1,5/7-ST-3,5-LR
(PHOENIX CONTACT)

Connector Wiring Lever: J-FAT-0T
(J.S.T.MFG.CO.,LTD.)

◇ Pulse Input Type DC Input (AZD-K)

Mass: 0.15 kg



● Included

Connector for Main Power Supply/Electromagnetic Brake Connection (CN1)

Connector: MC1,5/5-STF-3,5
(PHOENIX CONTACT)

I/O Signals Connector (CN4)

Connector: DFMC1,5/12-ST-3,5
(PHOENIX CONTACT)

α STEP
AZ
Equipped

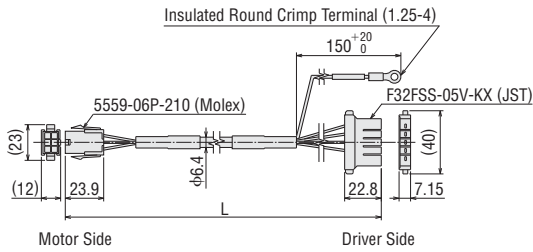
α STEP
AR
Equipped

● Connection Cable (Only for Products with Connection Cable)

◇ AC Input

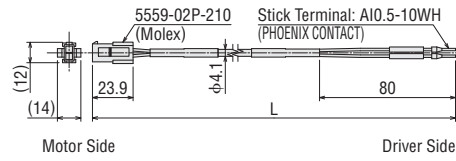
● Cable for Motor

Cable Type	Length L (m)
Cable for Motor 1 m	1
Cable for Motor 2 m	2
Cable for Motor 3 m	3



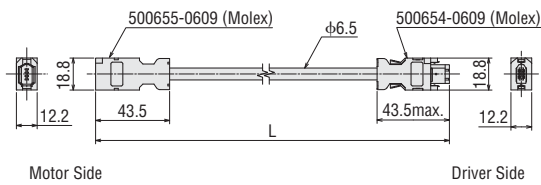
● Cable for Electromagnetic Brake (Only for Types with Electromagnetic Brake)

Cable Type	Length L (m)
Cable for Electromagnetic Brake 1 m	1
Cable for Electromagnetic Brake 2 m	2
Cable for Electromagnetic Brake 3 m	3



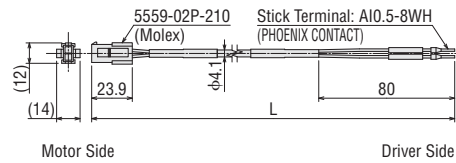
● Cable for Encoder

Cable Type	Length L (m)
Cable for Encoder 1 m	1
Cable for Encoder 2 m	2
Cable for Encoder 3 m	3



● Cable for Electromagnetic Brake (Only for Types with Electromagnetic Brake)

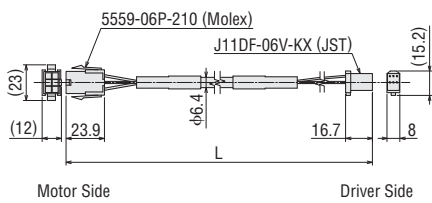
Cable Type	Length L (m)
Cable for Electromagnetic Brake 1 m	1
Cable for Electromagnetic Brake 2 m	2
Cable for Electromagnetic Brake 3 m	3



◇ For DC Input

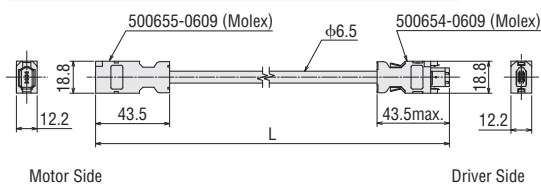
● Cable for Motor

Cable Type	Length L (m)
Cable for Motor 1 m	1
Cable for Motor 2 m	2
Cable for Motor 3 m	3



● Cable for Encoder

Cable Type	Length L (m)
Cable for Encoder 1 m	1
Cable for Encoder 2 m	2
Cable for Encoder 3 m	3



Note

● The motor cable and electromagnetic brake cable from the electric linear slides cannot be connected directly to the driver. When connecting to a driver, use the accessory connection cable (sold separately) or use the included connection cable (for products which include a connection cable).

Overview,
Product
Series

Electric
Linear
Slides

Q₁STEP
AZ/AR
EAS

Q₁STEP
AZ/AR
EVS

Electric
Cylinders

Q₁STEP
AZ/AR
EAC

Compact
Linear
Actuators

Q₁STEP
AZ
DRS2

DRLII

Installation

Hollow
Rotary
Actuators

Q₁STEP
AZ/AR
DGII

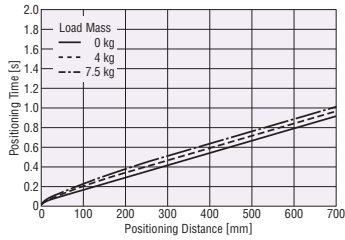
Accessories

Operating Data (Positioning Distance – Positioning Time, Operating Speed, Acceleration)

● **EZS3: Straight Type/Reversed Motor Type/For Cleanroom Use**
AC Input Lead Screw Pitch: 12 mm

◇ Horizontal Direction Installation

● Positioning Distance – Positioning Time

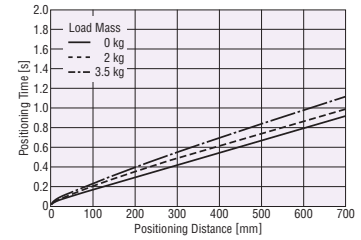


Positioning Time Coefficient

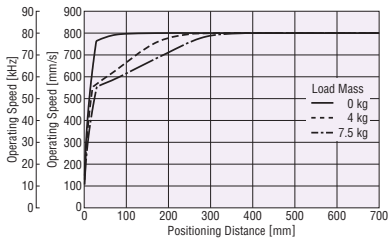
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	4 kg	7.5 kg	0 kg	2 kg	3.5 kg
50~500	1.0	1.0	1.0	1.0	1.0	1.0
550	1.2	1.2	1.1	1.2	1.1	1.0
600	1.4	1.3	1.3	1.4	1.3	1.2
650	1.7	1.6	1.5	1.7	1.6	1.4
700	1.9	1.8	1.8	1.9	1.8	1.6

◇ Vertical Direction Installation

● Positioning Distance – Positioning Time



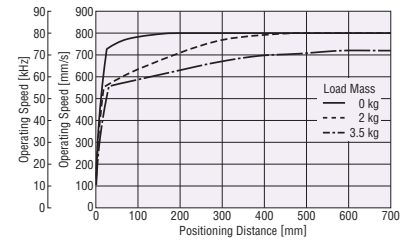
● Positioning Distance – Operating Speed



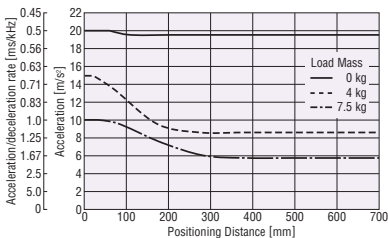
◇ Maximum Speed by Stroke

Stroke [mm]	Max. Speed [mm/s]
50~500	800
550	650
600	550
650	460
700	400

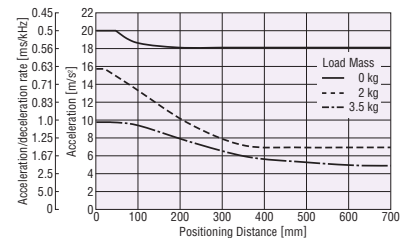
● Positioning Distance – Operating Speed



● Positioning Distance – Acceleration



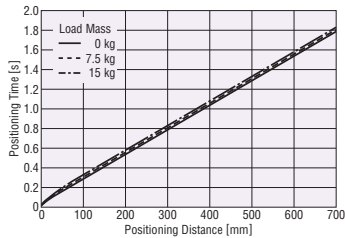
● Positioning Distance – Acceleration



● **EZS3: Straight Type/Reversed Motor Type/For Cleanroom Use**
AC Input Lead Screw Pitch: 6 mm

◇ Horizontal Direction Installation

● Positioning Distance – Positioning Time

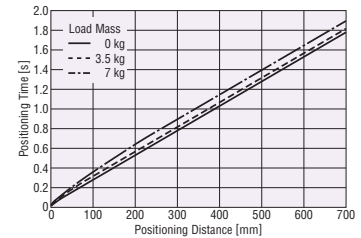


Positioning Time Coefficient

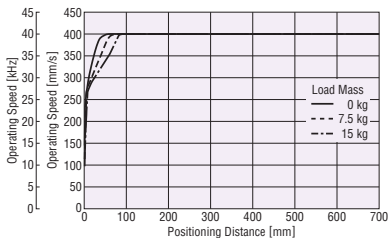
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg
50~500	1.0	1.0	1.0	1.0	1.0	1.0
550	1.2	1.2	1.2	1.2	1.2	1.2
600	1.5	1.4	1.4	1.5	1.4	1.4
650	1.8	1.8	1.7	1.8	1.8	1.7
700	2.0	1.9	1.9	2.0	1.9	1.9

◇ Vertical Direction Installation

● Positioning Distance – Positioning Time



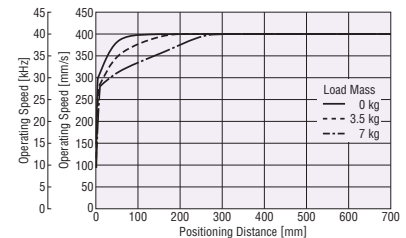
● Positioning Distance – Operating Speed



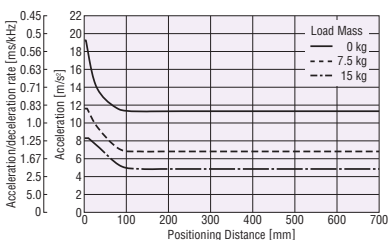
◇ Maximum Speed by Stroke

Stroke [mm]	Max. Speed [mm/s]
50~500	400
550	320
600	270
650	220
700	200

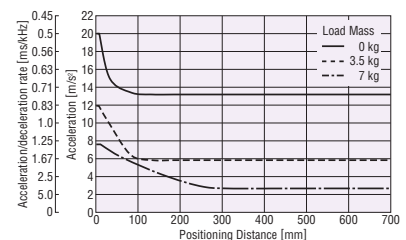
● Positioning Distance – Operating Speed



● Positioning Distance – Acceleration



● Positioning Distance – Acceleration

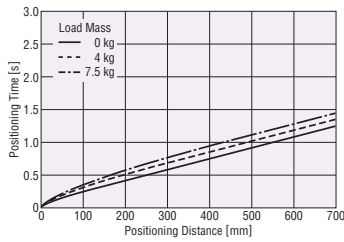


● The values of operating speed [kHz] and acceleration/deceleration rate [ms/kHz] of the above graph are those when the minimum traveling amount of electric linear slides is set to 0.01 mm.

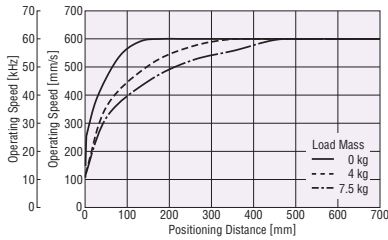
● **EZS3: Straight Type/Reversed Motor Type/For Cleanroom Use**
24 VDC Input Lead Screw Pitch: 12 mm

◇ Horizontal Direction Installation

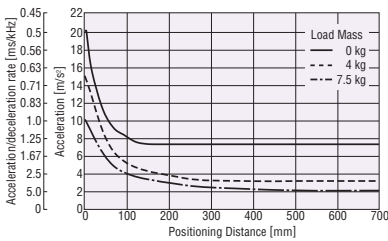
● Positioning Distance – Positioning Time



● Positioning Distance – Operating Speed



● Positioning Distance – Acceleration



Positioning Time Coefficient

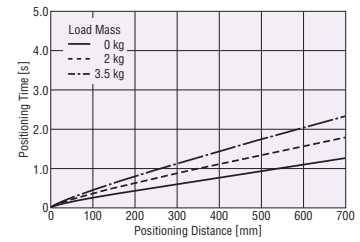
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	4 kg	7.5 kg	0 kg	2 kg	3.5 kg
50~550	1.0	1.0	1.0	1.0	1.0	1.0
600	1.1	1.0	1.0	1.1	1.0	1.0
650	1.2	1.2	1.1	1.2	1.0	1.0
700	1.4	1.3	1.3	1.4	1.0	1.0

◇ Maximum Speed by Stroke

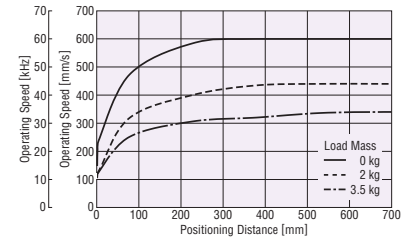
Stroke [mm]	Max. Speed [mm/s]
50~550	600
600	550
650	460
700	400

◇ Vertical Direction Installation

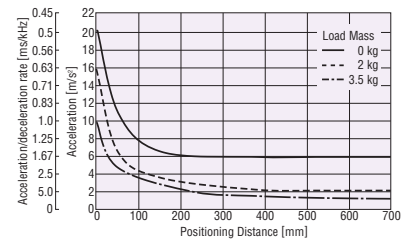
● Positioning Distance – Positioning Time



● Positioning Distance – Operating Speed



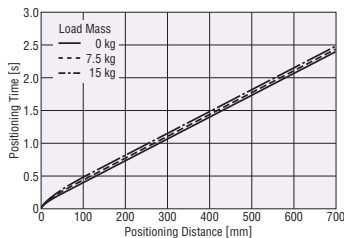
● Positioning Distance – Acceleration



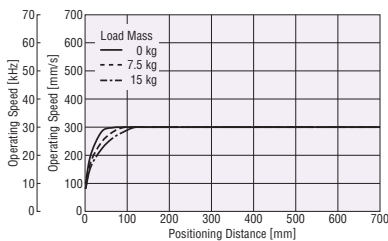
● **EZS3: Straight Type/Reversed Motor Type/For Cleanroom Use**
24 VDC Input Lead Screw Pitch: 6 mm

◇ Horizontal Direction Installation

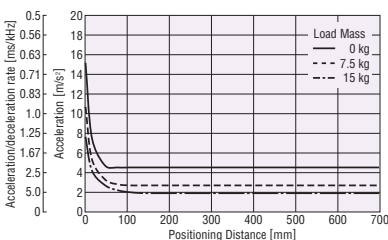
● Positioning Distance – Positioning Time



● Positioning Distance – Operating Speed



● Positioning Distance – Acceleration



Positioning Time Coefficient

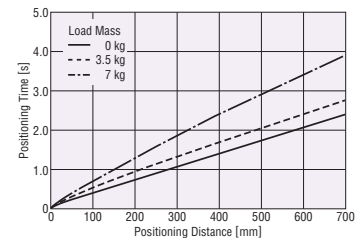
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg
50~550	1.0	1.0	1.0	1.0	1.0	1.0
600	1.1	1.1	1.1	1.1	1.0	1.0
650	1.3	1.3	1.3	1.3	1.2	1.0
700	1.5	1.5	1.4	1.5	1.3	1.0

◇ Maximum Speed by Stroke

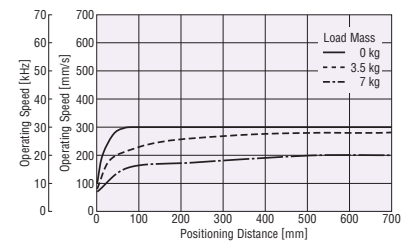
Stroke [mm]	Max. Speed [mm/s]
50~550	300
600	270
650	220
700	200

◇ Vertical Direction Installation

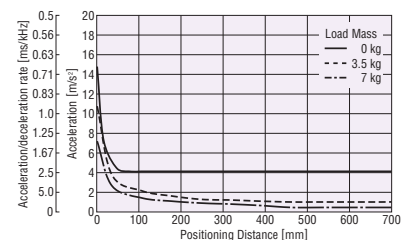
● Positioning Distance – Positioning Time



● Positioning Distance – Operating Speed



● Positioning Distance – Acceleration



● The values of operating speed [kHz] and acceleration/deceleration rate [ms/kHz] of the above graph are those when the minimum traveling amount of electric linear slides is set to 0.01 mm.

Overview, Product Series

Electric Linear Slides

QSTEP AZ/AR EAS

QSTEP AZ/AR EZS

Electric Cylinders

QSTEP AZ/AR EAC

Compact Linear Actuators

QSTEP AZ DRS2

DRLII

Installation

Hollow Rotary Actuators

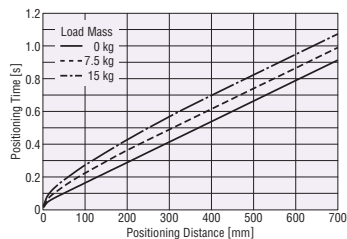
QSTEP AZ/AR DGII

Accessories

● **EZS4: Straight Type/For Cleanroom Use**
AC Input Lead Screw Pitch: 12 mm

◇ Horizontal Direction Installation

● Positioning Distance – Positioning Time

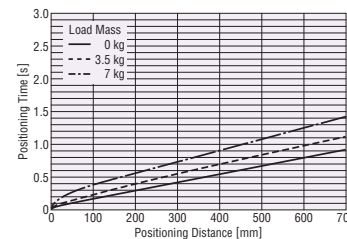


Positioning Time Coefficient

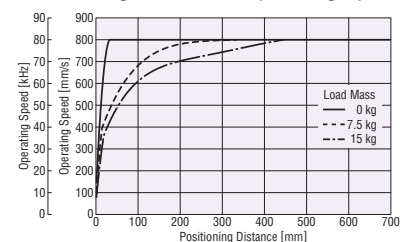
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg
50~500	1.0	1.0	1.0	1.0	1.0	1.0
550	1.2	1.1	1.1	1.2	1.0	1.0
600	1.4	1.3	1.2	1.4	1.2	1.0
650	1.7	1.5	1.4	1.7	1.4	1.2
700	1.9	1.8	1.6	1.9	1.6	1.3

◇ Vertical Direction Installation

● Positioning Distance – Positioning Time



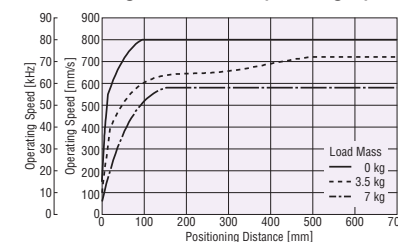
● Positioning Distance – Operating Speed



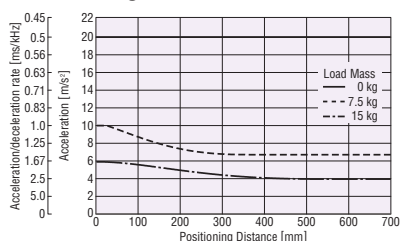
◇ Maximum Speed by Stroke

Stroke [mm]	Max. Speed [mm/s]
50~500	800
550	650
600	550
650	460
700	400

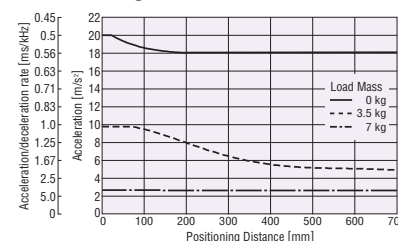
● Positioning Distance – Operating Speed



● Positioning Distance – Acceleration



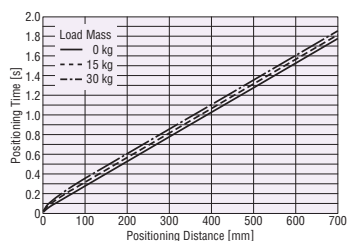
● Positioning Distance – Acceleration



● **EZS4: Straight Type/For Cleanroom Use**
AC Input Lead Screw Pitch: 6 mm

◇ Horizontal Direction Installation

● Positioning Distance – Positioning Time

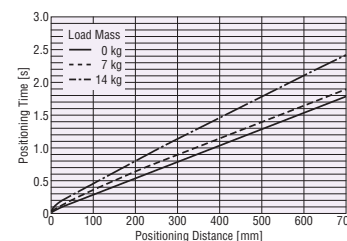


Positioning Time Coefficient

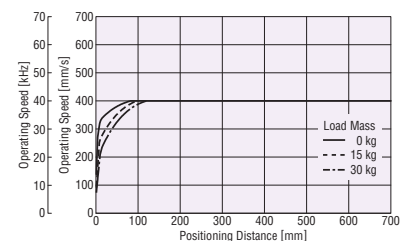
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	15 kg	30 kg	0 kg	7 kg	14 kg
50~500	1.0	1.0	1.0	1.0	1.0	1.0
550	1.2	1.2	1.2	1.2	1.2	1.0
600	1.5	1.4	1.4	1.5	1.4	1.1
650	1.8	1.7	1.7	1.8	1.7	1.3
700	2.0	1.9	1.9	2.0	1.9	1.5

◇ Vertical Direction Installation

● Positioning Distance – Positioning Time



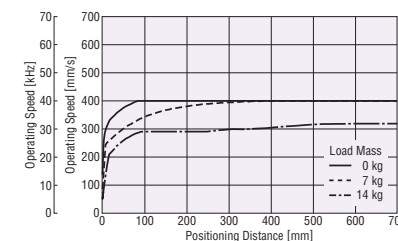
● Positioning Distance – Operating Speed



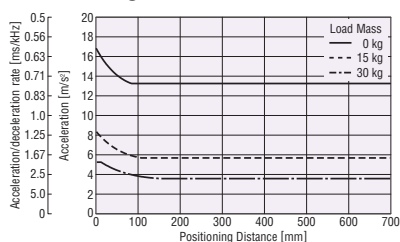
◇ Maximum Speed by Stroke

Stroke [mm]	Max. Speed [mm/s]
50~500	400
550	320
600	270
650	220
700	200

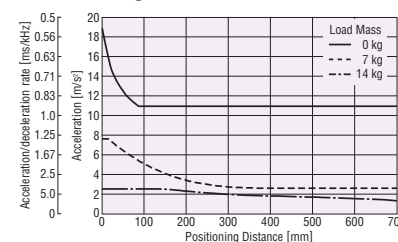
● Positioning Distance – Operating Speed



● Positioning Distance – Acceleration



● Positioning Distance – Acceleration

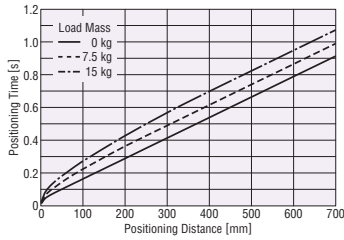


● The values of operating speed [kHz] and acceleration/deceleration rate [ms/kHz] of the above graph are those when the minimum traveling amount of electric linear slides is set to 0.01 mm.

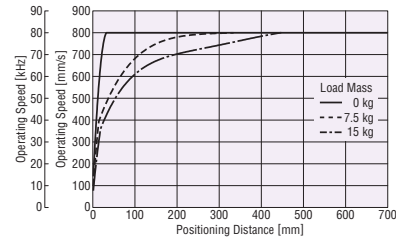
● **EZS4: Reversed Motor Type**
AC Input Lead Screw Pitch: 12 mm

◇ Horizontal Direction Installation

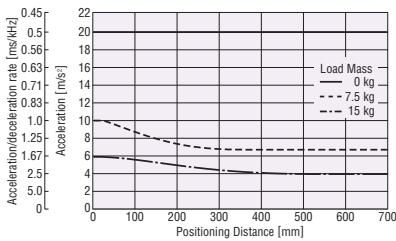
● Positioning Distance – Positioning Time



● Positioning Distance – Operating Speed



● Positioning Distance – Acceleration



Positioning Time Coefficient

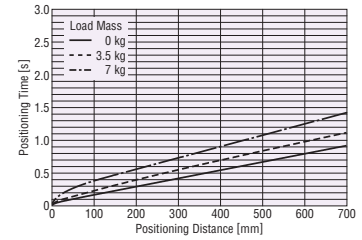
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg
50~500	1.0	1.0	1.0	1.0	1.0	1.0
550	1.2	1.1	1.1	1.2	1.0	1.0
600	1.4	1.3	1.2	1.4	1.2	1.0
650	1.7	1.5	1.4	1.7	1.4	1.2
700	1.9	1.8	1.6	1.9	1.6	1.3

◇ Maximum Speed by Stroke

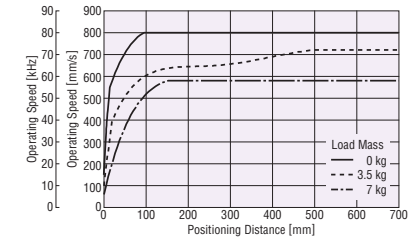
Stroke [mm]	Max. Speed [mm/s]
50~500	800
550	650
600	550
650	460
700	400

◇ Vertical Direction Installation

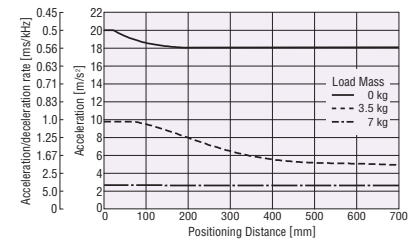
● Positioning Distance – Positioning Time



● Positioning Distance – Operating Speed



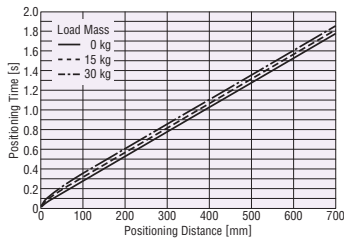
● Positioning Distance – Acceleration



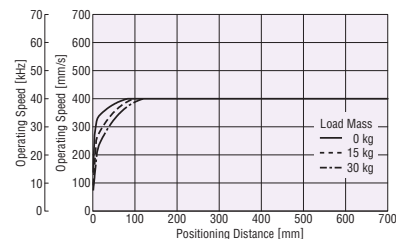
● **EZS4: Reversed Motor Type**
AC Input Lead Screw Pitch: 6 mm

◇ Horizontal Direction Installation

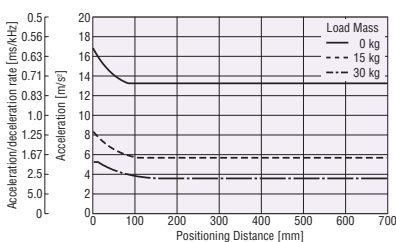
● Positioning Distance – Positioning Time



● Positioning Distance – Operating Speed



● Positioning Distance – Acceleration



Positioning Time Coefficient

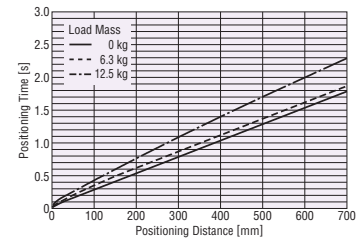
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	15 kg	30 kg	0 kg	6.3 kg	12.5 kg
50~500	1.0	1.0	1.0	1.0	1.0	1.0
550	1.2	1.2	1.2	1.2	1.2	1.0
600	1.5	1.4	1.4	1.5	1.4	1.2
650	1.8	1.7	1.7	1.8	1.7	1.4
700	2.0	1.9	1.9	2.0	1.9	1.6

◇ Maximum Speed by Stroke

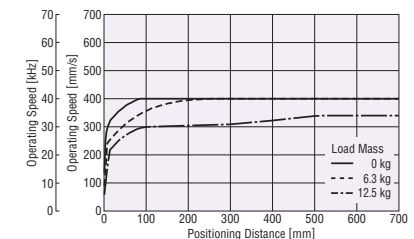
Stroke [mm]	Max. Speed [mm/s]
50~500	400
550	320
600	270
650	220
700	200

◇ Vertical Direction Installation

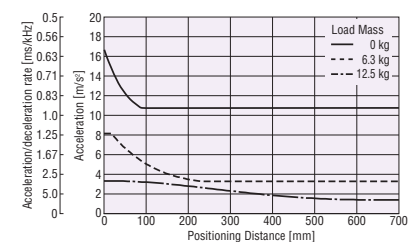
● Positioning Distance – Positioning Time



● Positioning Distance – Operating Speed



● Positioning Distance – Acceleration



● The values of operating speed [kHz] and acceleration/deceleration rate [ms/kHz] of the above graph are those when the minimum traveling amount of electric linear slides is set to 0.01 mm.

Overview,
Product
Series

Electric
Linear
Slides

Q1STEP
AZ/AR
EAS

Q1STEP
AZ/AR
EVS

Electric
Cylinders

Q1STEP
AZ/AR
EAC

Compact
Linear
Actuators

Q1STEP
AZ
DRS2

DRLII

Installation

Hollow
Rotary
Actuators

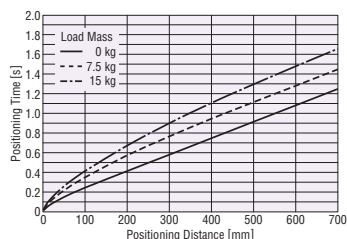
Q1STEP
AZ/AR
DGII

Accessories

● **EZS4: Straight Type/For Cleanroom Use**
24 VDC Input Lead Screw Pitch: 12 mm

◇ Horizontal Direction Installation

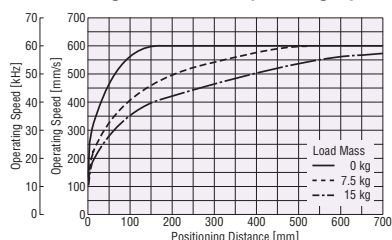
● Positioning Distance – Positioning Time



Positioning Time Coefficient

Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg
50~550	1.0	1.0	1.0	1.0	1.0	1.0
600	1.1	1.0	1.0	1.1	1.0	1.0
650	1.2	1.1	1.1	1.2	1.0	1.0
700	1.4	1.3	1.2	1.4	1.0	1.0

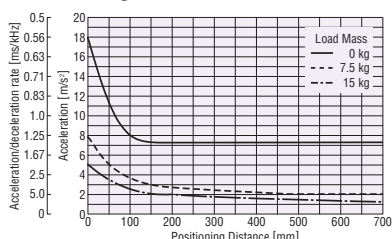
● Positioning Distance – Operating Speed



◇ Maximum Speed by Stroke

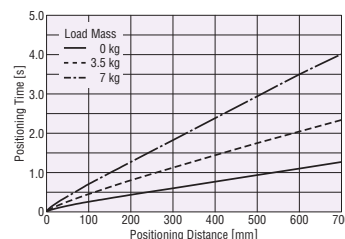
Stroke [mm]	Max. Speed [mm/s]
50~550	600
600	550
650	460
700	400

● Positioning Distance – Acceleration

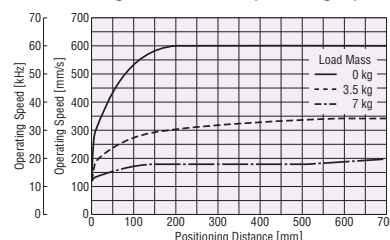


◇ Vertical Direction Installation

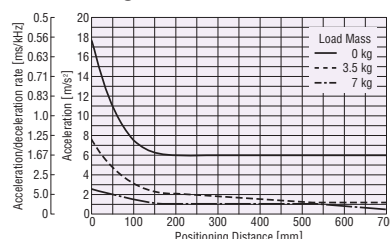
● Positioning Distance – Positioning Time



● Positioning Distance – Operating Speed



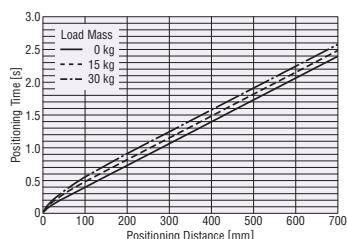
● Positioning Distance – Acceleration



● **EZS4: Straight Type/For Cleanroom Use**
24 VDC Input Lead Screw Pitch: 6 mm

◇ Horizontal Direction Installation

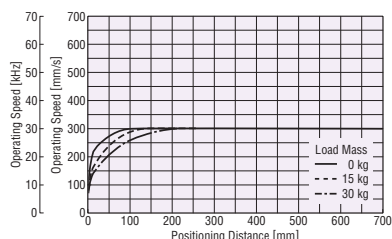
● Positioning Distance – Positioning Time



Positioning Time Coefficient

Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	15 kg	30 kg	0 kg	7 kg	14 kg
50~550	1.0	1.0	1.0	1.0	1.0	1.0
600	1.1	1.1	1.1	1.1	1.0	1.0
650	1.3	1.3	1.3	1.3	1.0	1.0
700	1.5	1.4	1.4	1.5	1.0	1.0

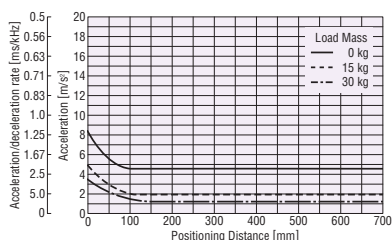
● Positioning Distance – Operating Speed



◇ Maximum Speed by Stroke

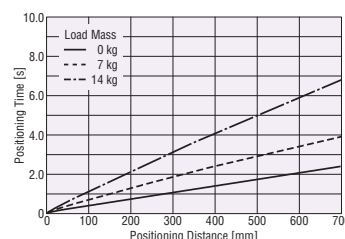
Stroke [mm]	Max. Speed [mm/s]
50~550	300
600	270
650	220
700	200

● Positioning Distance – Acceleration

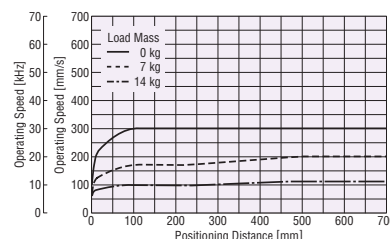


◇ Vertical Direction Installation

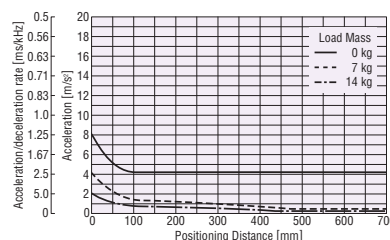
● Positioning Distance – Positioning Time



● Positioning Distance – Operating Speed



● Positioning Distance – Acceleration



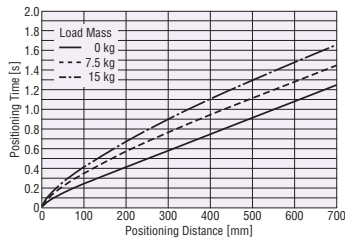
● The values of operating speed [kHz] and acceleration/deceleration rate [ms/kHz] of the above graph are those when the minimum traveling amount of electric linear slides is set to 0.01 mm.

● **EZS4: Reversed Motor Type**

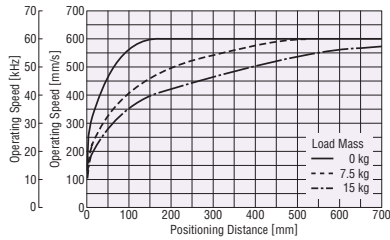
24 VDC Input Lead Screw Pitch: 12 mm

◇ Horizontal Direction Installation

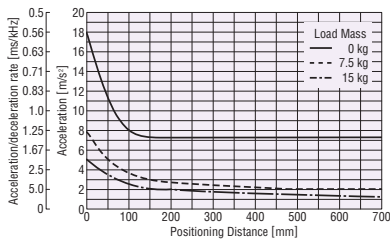
● Positioning Distance – Positioning Time



● Positioning Distance – Operating Speed



● Positioning Distance – Acceleration

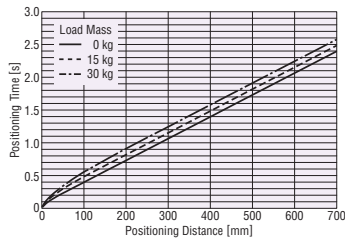


● **EZS4: Reversed Motor Type**

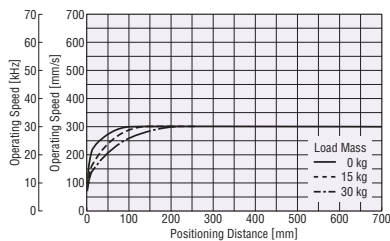
24 VDC Input Lead Screw Pitch: 6 mm

◇ Horizontal Direction Installation

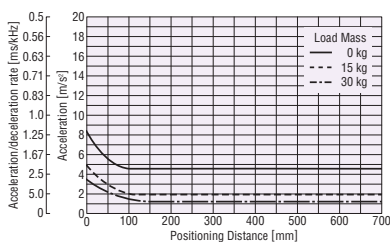
● Positioning Distance – Positioning Time



● Positioning Distance – Operating Speed



● Positioning Distance – Acceleration



Positioning Time Coefficient

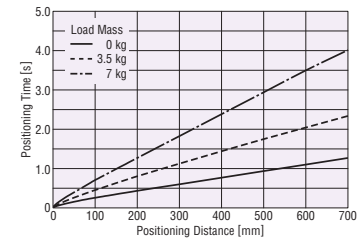
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg
50~550	1.0	1.0	1.0	1.0	1.0	1.0
600	1.1	1.0	1.0	1.1	1.0	1.0
650	1.2	1.1	1.1	1.2	1.0	1.0
700	1.4	1.3	1.2	1.4	1.0	1.0

◇ Maximum Speed by Stroke

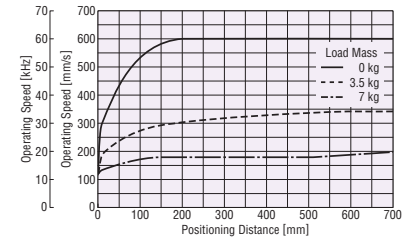
Stroke [mm]	Max. Speed [mm/s]
50~550	600
600	550
650	460
700	400

◇ Vertical Direction Installation

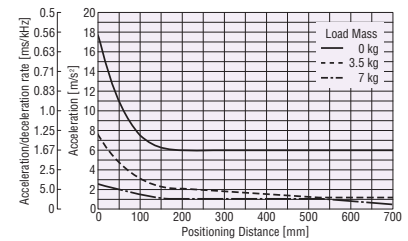
● Positioning Distance – Positioning Time



● Positioning Distance – Operating Speed

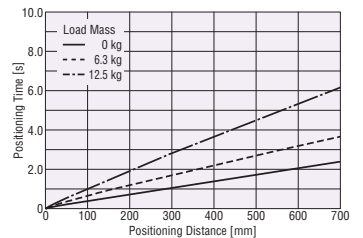


● Positioning Distance – Acceleration

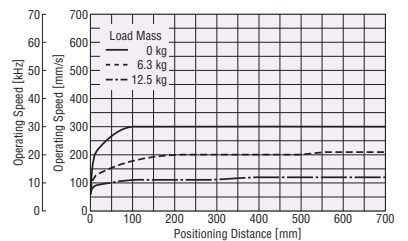


◇ Vertical Direction Installation

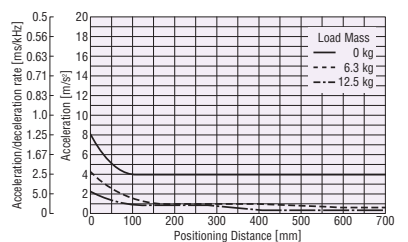
● Positioning Distance – Positioning Time



● Positioning Distance – Operating Speed



● Positioning Distance – Acceleration



● The values of operating speed [kHz] and acceleration/deceleration rate [ms/kHz] of the above graph are those when the minimum traveling amount of electric linear slides is set to 0.01 mm.

Overview, Product Series

Electric Linear Slides

Q1STEP
AZ/AR
EAS

Q1STEP
AZ/AR
EZS

Electric Cylinders

Q1STEP
AZ/AR
EAC

Compact Linear Actuators

Q1STEP
AZ
DRS2

DRLII

Installation

Hollow Rotary Actuators

Q1STEP
AZ/AR
DGII

Accessories

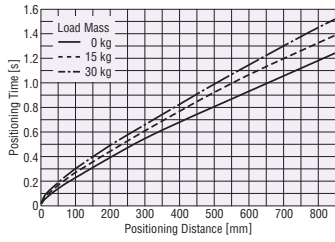
α STEP
AZ
Equipped

α STEP
AR
Equipped

● **EZS6: Straight Type/Reversed Motor Type/For Cleanroom Use**
AC Input Lead Screw Pitch: 12 mm

◇ Horizontal Direction Installation

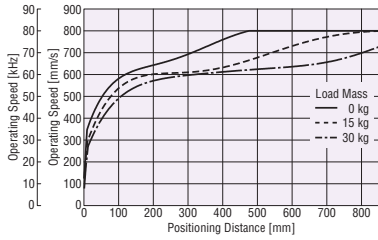
● Positioning Distance – Positioning Time



Positioning Time Coefficient

Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	15 kg	30 kg	0 kg	7.5 kg	15 kg
50~600	1.0	1.0	1.0	1.0	1.0	1.0
650	1.1	1.0	1.0	1.1	1.0	1.0
700	1.3	1.1	1.0	1.2	1.1	1.0
750	1.5	1.3	1.2	1.4	1.2	1.0
800	1.6	1.5	1.4	1.6	1.3	1.1
850	1.9	1.7	1.6	1.9	1.5	1.2

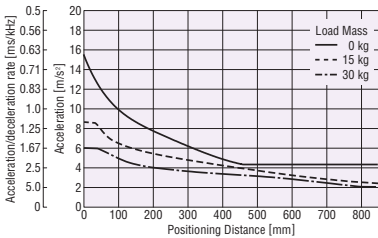
● Positioning Distance – Operating Speed



◇ Maximum Speed by Stroke

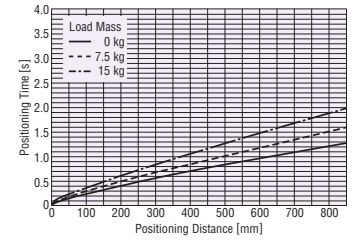
Stroke [mm]	Max. Speed [mm/s]
50~600	800
650	640
700	550
750	470
800	420
850	360

● Positioning Distance – Acceleration

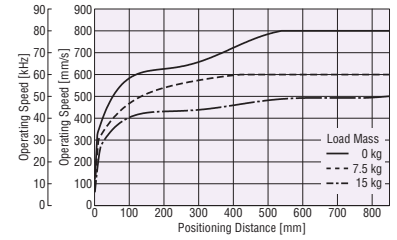


◇ Vertical Direction Installation

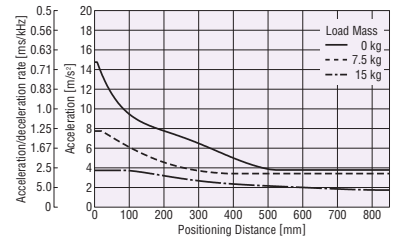
● Positioning Distance – Positioning Time



● Positioning Distance – Operating Speed



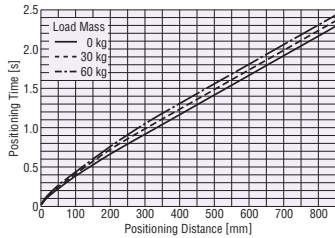
● Positioning Distance – Acceleration



● **EZS6: Straight Type/Reversed Motor Type/For Cleanroom Use**
AC Input Lead Screw Pitch: 6 mm

◇ Horizontal Direction Installation

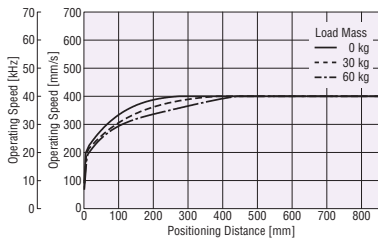
● Positioning Distance – Positioning Time



Positioning Time Coefficient

Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	30 kg	60 kg	0 kg	15 kg	30 kg
50~550	1.0	1.0	1.0	1.0	1.0	1.0
600	1.1	1.1	1.1	1.1	1.0	1.0
650	1.2	1.2	1.2	1.2	1.0	1.0
700	1.4	1.4	1.3	1.4	1.2	1.0
750	1.6	1.6	1.5	1.6	1.3	1.1
800	1.9	1.8	1.7	1.8	1.5	1.3
850	2.1	2.0	2.0	2.1	1.7	1.4

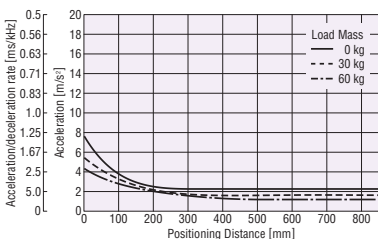
● Positioning Distance – Operating Speed



◇ Maximum Speed by Stroke

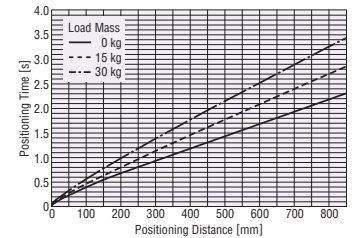
Stroke [mm]	Max. Speed [mm/s]
50~550	400
600	350
650	300
700	260
750	230
800	200
850	180

● Positioning Distance – Acceleration

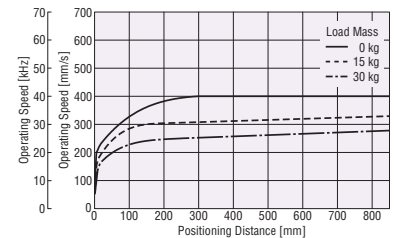


◇ Vertical Direction Installation

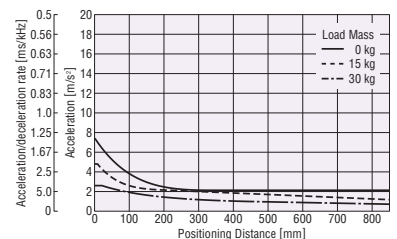
● Positioning Distance – Positioning Time



● Positioning Distance – Operating Speed



● Positioning Distance – Acceleration

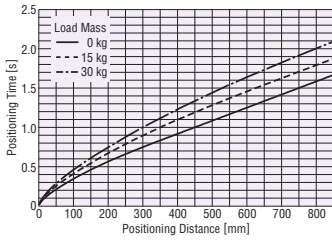


● The values of operating speed [kHz] and acceleration/deceleration rate [ms/kHz] of the above graph are those when the minimum traveling amount of electric linear slides is set to 0.01 mm.

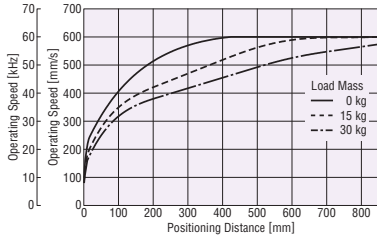
● **EZS6: Straight Type/Reversed Motor Type/For Cleanroom Use**
24 VDC Input Lead Screw Pitch: 12 mm

◇ Horizontal Direction Installation

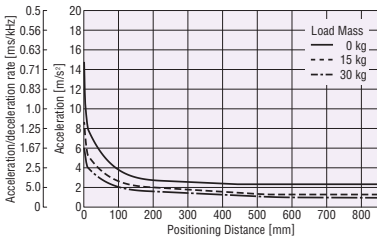
● Positioning Distance – Positioning Time



● Positioning Distance – Operating Speed



● Positioning Distance – Acceleration



Positioning Time Coefficient

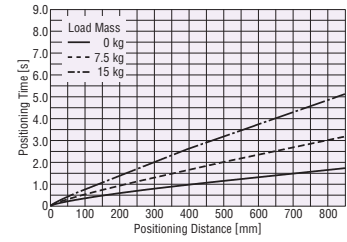
Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	15 kg	30 kg	0 kg	7.5 kg	15 kg
50~650	1.0	1.0	1.0	1.0	1.0	1.0
700	1.0	1.0	1.0	1.0	1.0	1.0
750	1.2	1.1	1.0	1.1	1.0	1.0
800	1.3	1.2	1.1	1.2	1.0	1.0
850	1.5	1.3	1.2	1.4	1.0	1.0

◇ Maximum Speed by Stroke

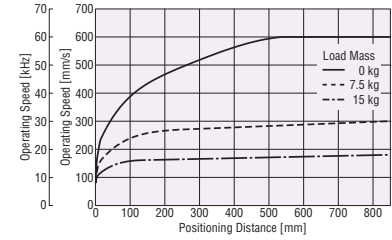
Stroke [mm]	Max. Speed [mm/s]
50~650	600
700	550
750	470
800	420
850	360

◇ Vertical Direction Installation

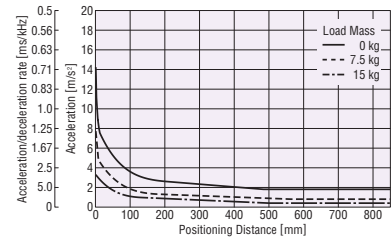
● Positioning Distance – Positioning Time



● Positioning Distance – Operating Speed



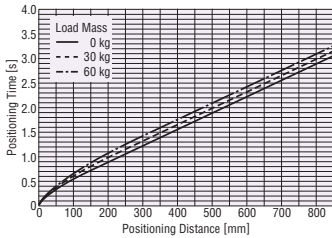
● Positioning Distance – Acceleration



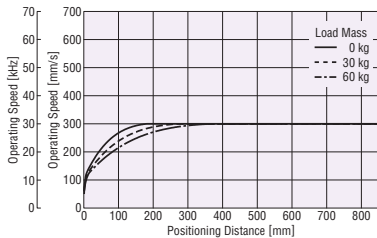
● **EZS6: Straight Type/Reversed Motor Type/For Cleanroom Use**
24 VDC Input Lead Screw Pitch: 6 mm

◇ Horizontal Direction Installation

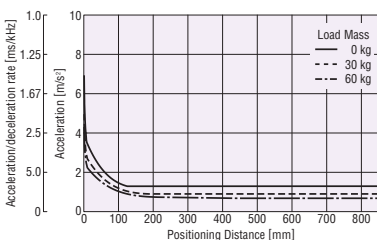
● Positioning Distance – Positioning Time



● Positioning Distance – Operating Speed



● Positioning Distance – Acceleration



Positioning Time Coefficient

Stroke [mm]	Load Mass					
	Horizontal Direction Installation			Vertical Direction Installation		
	0 kg	30 kg	60 kg	0 kg	15 kg	30 kg
50~650	1.0	1.0	1.0	1.0	1.0	1.0
700	1.1	1.1	1.1	1.1	1.0	1.0
750	1.2	1.2	1.2	1.2	1.0	1.0
800	1.4	1.4	1.3	1.4	1.0	1.0
850	1.6	1.5	1.5	1.6	1.0	1.0

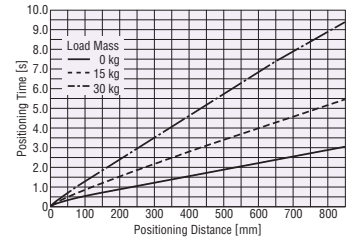
◇ Maximum Speed by Stroke

Stroke [mm]	Max. Speed [mm/s]
50~650	300
700	260
750	230
800	200
850	180

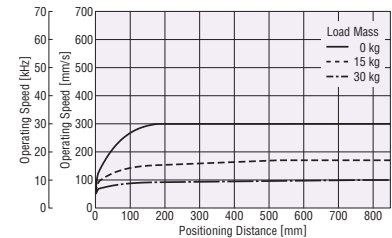
● When using in operating speed of 150 mm/s or more, the acceleration will be 2.17 m/s² or less.

◇ Vertical Direction Installation

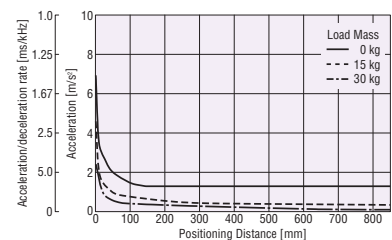
● Positioning Distance – Positioning Time



● Positioning Distance – Operating Speed



● Positioning Distance – Acceleration



● The values of operating speed [kHz] and acceleration/deceleration rate [ms/kHz] of the above graph are those when the minimum traveling amount of electric linear slides is set to 0.01 mm.

Overview,
Product
Series

Electric
Linear
Slides

Q1STEP
AZ/AR
EAS

Q1STEP
AZ/AR
EZS

Electric
Cylinders

Q1STEP
AZ/AR
EAC

Compact
Linear
Actuators

Q1STEP
AZ
DRS2

DRLII

Installation

Hollow
Rotary
Actuators

Q1STEP
AZ/AR
DGII

Accessories

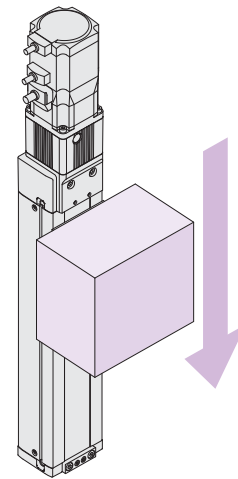
About Use of the EZS6 (AC Input Type) for Vertical Driving

When operating **EVS6*** type electric linear slides in the vertical direction, depending on the driving conditions, an overvoltage protection alarm may be detected.

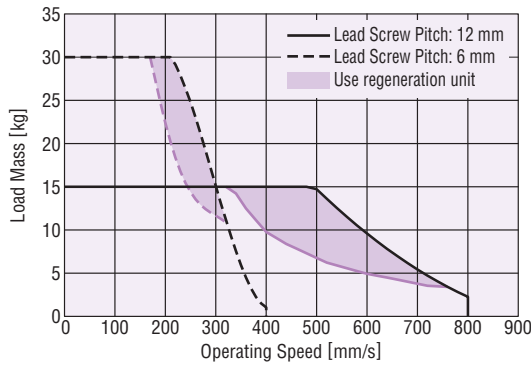
In such case, refer to the operating speed load mass characteristics diagram, and connect the **RGB100** regeneration unit accessory (sold separately) to the driver.

α STEP
AZ
Equipped

α STEP
AR
Equipped



Example of Vertical Use



Region in which the **EVS6** type (AC Input Type) regeneration unit is necessary

● Regeneration Unit

When a regeneration unit is attached to the special terminal on the driver, the regenerative power that is fed back from the motor is released as heat energy.



◇ Product Line

Product Name	Applicable Products	List Price
RGB100	AC Input Type	€41.00

◇ Specifications

Item	Specifications
Continuous Regenerative Power	50 W
Resistance Value	150 Ω
Thermostat Operating Temperature	Open: 150 \pm 7°C Close: 145 \pm 12°C (Normally closed)
Thermostat Electrical Rating	120 VAC 4 A 30 VDC 4 A (Minimum current 5 mA)

● Install the regeneration unit in the place which has the same heat radiation capability as heat radiation plate [Material: Aluminum 350 mm \times 350 mm, 3 mm thick].

List of Electric Linear Slides and Driver Combinations

The product names for electric linear slide and driver combinations are shown below.

● AC Input

◇ Built-in Controller Type

Product Name	Electric Linear Slide Product Name	Driver Product Name
EZS3 ②- E ⑤- AZACD -⑩	EZSM3 ②E ⑤AZAC	AZD-CD
EZS3 ②- E ⑤- AZMCD -⑩	EZSM3 ②E ⑤AZMC	
EZS3 ②- D ⑤- AZACD -⑩	EZSM3 ②D ⑤AZAC	
EZS3 ②- D ⑤- AZMCD -⑩	EZSM3 ②D ⑤AZMC	
EZS3 ③- E ⑤- AZACD -⑩	EZSM3 ③E ⑤AZAC	
EZS3 ③- E ⑤- AZMCD -⑩	EZSM3 ③E ⑤AZMC	
EZS3 ③- D ⑤- AZACD -⑩	EZSM3 ③D ⑤AZAC	
EZS3 ③- D ⑤- AZMCD -⑩	EZSM3 ③D ⑤AZMC	
EZS4 ②- E ⑤- AZACD -⑩	EZSM4 ②E ⑤AZAC	
EZS4 ②- E ⑤- AZMCD -⑩	EZSM4 ②E ⑤AZMC	
EZS4 ②- D ⑤- AZACD -⑩	EZSM4 ②D ⑤AZAC	
EZS4 ②- D ⑤- AZMCD -⑩	EZSM4 ②D ⑤AZMC	
EZS4 ③- E ⑤- AZACD -⑩	EZSM4 ③E ⑤AZAC	
EZS4 ③- E ⑤- AZMCD -⑩	EZSM4 ③E ⑤AZMC	
EZS4 ③- D ⑤- AZACD -⑩	EZSM4 ③D ⑤AZAC	
EZS4 ③- D ⑤- AZMCD -⑩	EZSM4 ③D ⑤AZMC	
EZS6 ②- E ⑤- AZACD -⑩	EZSM6 ②E ⑤AZAC	
EZS6 ②- E ⑤- AZMCD -⑩	EZSM6 ②E ⑤AZMC	
EZS6 ②- D ⑤- AZACD -⑩	EZSM6 ②D ⑤AZAC	
EZS6 ②- D ⑤- AZMCD -⑩	EZSM6 ②D ⑤AZMC	
EZS6 ③- E ⑤- AZACD -⑩	EZSM6 ③E ⑤AZAC	
EZS6 ③- E ⑤- AZMCD -⑩	EZSM6 ③E ⑤AZMC	
EZS6 ③- D ⑤- AZACD -⑩	EZSM6 ③D ⑤AZAC	
EZS6 ③- D ⑤- AZMCD -⑩	EZSM6 ③D ⑤AZMC	

● DC Input

◇ Built-in Controller Type

Product Name	Electric Linear Slide Product Name	Driver Product Name
EZS3 ②- E ⑤- AZAKD -⑩	EZSM3 ②E ⑤AZAK	AZD-KD
EZS3 ②- E ⑤- AZMKD -⑩	EZSM3 ②E ⑤AZMK	
EZS3 ②- D ⑤- AZAKD -⑩	EZSM3 ②D ⑤AZAK	
EZS3 ②- D ⑤- AZMKD -⑩	EZSM3 ②D ⑤AZMK	
EZS3 ③- E ⑤- AZAKD -⑩	EZSM3 ③E ⑤AZAK	
EZS3 ③- E ⑤- AZMKD -⑩	EZSM3 ③E ⑤AZMK	
EZS3 ③- D ⑤- AZAKD -⑩	EZSM3 ③D ⑤AZAK	
EZS3 ③- D ⑤- AZMKD -⑩	EZSM3 ③D ⑤AZMK	
EZS4 ②- E ⑤- AZAKD -⑩	EZSM4 ②E ⑤AZAK	
EZS4 ②- E ⑤- AZMKD -⑩	EZSM4 ②E ⑤AZMK	
EZS4 ②- D ⑤- AZAKD -⑩	EZSM4 ②D ⑤AZAK	
EZS4 ②- D ⑤- AZMKD -⑩	EZSM4 ②D ⑤AZMK	
EZS4 ③- E ⑤- AZAKD -⑩	EZSM4 ③E ⑤AZAK	
EZS4 ③- E ⑤- AZMKD -⑩	EZSM4 ③E ⑤AZMK	
EZS4 ③- D ⑤- AZAKD -⑩	EZSM4 ③D ⑤AZAK	
EZS4 ③- D ⑤- AZMKD -⑩	EZSM4 ③D ⑤AZMK	
EZS6 ②- E ⑤- AZAKD -⑩	EZSM6 ②E ⑤AZAK	
EZS6 ②- E ⑤- AZMKD -⑩	EZSM6 ②E ⑤AZMK	
EZS6 ②- D ⑤- AZAKD -⑩	EZSM6 ②D ⑤AZAK	
EZS6 ②- D ⑤- AZMKD -⑩	EZSM6 ②D ⑤AZMK	
EZS6 ③- E ⑤- AZAKD -⑩	EZSM6 ③E ⑤AZAK	
EZS6 ③- E ⑤- AZMKD -⑩	EZSM6 ③E ⑤AZMK	
EZS6 ③- D ⑤- AZAKD -⑩	EZSM6 ③D ⑤AZAK	
EZS6 ③- D ⑤- AZMKD -⑩	EZSM6 ③D ⑤AZMK	

◇ Pulse Input Type

Product Name	Electric Linear Slide Product Name	Driver Product Name
EZS3 ②- E ⑤- AZAC -⑩	EZSM3 ②E ⑤AZAC	AZD-C
EZS3 ②- E ⑤- AZMC -⑩	EZSM3 ②E ⑤AZMC	
EZS3 ②- D ⑤- AZAC -⑩	EZSM3 ②D ⑤AZAC	
EZS3 ②- D ⑤- AZMC -⑩	EZSM3 ②D ⑤AZMC	
EZS3 ③- E ⑤- AZAC -⑩	EZSM3 ③E ⑤AZAC	
EZS3 ③- E ⑤- AZMC -⑩	EZSM3 ③E ⑤AZMC	
EZS3 ③- D ⑤- AZAC -⑩	EZSM3 ③D ⑤AZAC	
EZS3 ③- D ⑤- AZMC -⑩	EZSM3 ③D ⑤AZMC	
EZS4 ②- E ⑤- AZAC -⑩	EZSM4 ②E ⑤AZAC	
EZS4 ②- E ⑤- AZMC -⑩	EZSM4 ②E ⑤AZMC	
EZS4 ②- D ⑤- AZAC -⑩	EZSM4 ②D ⑤AZAC	
EZS4 ②- D ⑤- AZMC -⑩	EZSM4 ②D ⑤AZMC	
EZS4 ③- E ⑤- AZAC -⑩	EZSM4 ③E ⑤AZAC	
EZS4 ③- E ⑤- AZMC -⑩	EZSM4 ③E ⑤AZMC	
EZS4 ③- D ⑤- AZAC -⑩	EZSM4 ③D ⑤AZAC	
EZS4 ③- D ⑤- AZMC -⑩	EZSM4 ③D ⑤AZMC	
EZS6 ②- E ⑤- AZAC -⑩	EZSM6 ②E ⑤AZAC	
EZS6 ②- E ⑤- AZMC -⑩	EZSM6 ②E ⑤AZMC	
EZS6 ②- D ⑤- AZAC -⑩	EZSM6 ②D ⑤AZAC	
EZS6 ②- D ⑤- AZMC -⑩	EZSM6 ②D ⑤AZMC	
EZS6 ③- E ⑤- AZAC -⑩	EZSM6 ③E ⑤AZAC	
EZS6 ③- E ⑤- AZMC -⑩	EZSM6 ③E ⑤AZMC	
EZS6 ③- D ⑤- AZAC -⑩	EZSM6 ③D ⑤AZAC	
EZS6 ③- D ⑤- AZMC -⑩	EZSM6 ③D ⑤AZMC	

◇ Pulse Input Type

Product Name	Electric Linear Slide Product Name	Driver Product Name
EZS3 ②- E ⑤- AZAK -⑩	EZSM3 ②E ⑤AZAK	AZD-K
EZS3 ②- E ⑤- AZMK -⑩	EZSM3 ②E ⑤AZMK	
EZS3 ②- D ⑤- AZAK -⑩	EZSM3 ②D ⑤AZAK	
EZS3 ②- D ⑤- AZMK -⑩	EZSM3 ②D ⑤AZMK	
EZS3 ③- E ⑤- AZAK -⑩	EZSM3 ③E ⑤AZAK	
EZS3 ③- E ⑤- AZMK -⑩	EZSM3 ③E ⑤AZMK	
EZS3 ③- D ⑤- AZAK -⑩	EZSM3 ③D ⑤AZAK	
EZS3 ③- D ⑤- AZMK -⑩	EZSM3 ③D ⑤AZMK	
EZS4 ②- E ⑤- AZAK -⑩	EZSM4 ②E ⑤AZAK	
EZS4 ②- E ⑤- AZMK -⑩	EZSM4 ②E ⑤AZMK	
EZS4 ②- D ⑤- AZAK -⑩	EZSM4 ②D ⑤AZAK	
EZS4 ②- D ⑤- AZMK -⑩	EZSM4 ②D ⑤AZMK	
EZS4 ③- E ⑤- AZAK -⑩	EZSM4 ③E ⑤AZAK	
EZS4 ③- E ⑤- AZMK -⑩	EZSM4 ③E ⑤AZMK	
EZS4 ③- D ⑤- AZAK -⑩	EZSM4 ③D ⑤AZAK	
EZS4 ③- D ⑤- AZMK -⑩	EZSM4 ③D ⑤AZMK	
EZS6 ②- E ⑤- AZAK -⑩	EZSM6 ②E ⑤AZAK	
EZS6 ②- E ⑤- AZMK -⑩	EZSM6 ②E ⑤AZMK	
EZS6 ②- D ⑤- AZAK -⑩	EZSM6 ②D ⑤AZAK	
EZS6 ②- D ⑤- AZMK -⑩	EZSM6 ②D ⑤AZMK	
EZS6 ③- E ⑤- AZAK -⑩	EZSM6 ③E ⑤AZAK	
EZS6 ③- E ⑤- AZMK -⑩	EZSM6 ③E ⑤AZMK	
EZS6 ③- D ⑤- AZAK -⑩	EZSM6 ③D ⑤AZAK	
EZS6 ③- D ⑤- AZMK -⑩	EZSM6 ③D ⑤AZMK	

● A symbol or number is specified where ②③⑤⑩ are located in the product name. For details, please refer to "◇Product Number" on page E-80 to E-83.

Overview, Product Series

Electric Linear Slides

Q-STEP AZ/AR EAS

Q-STEP AZ/AR EZS

Electric Cylinders

Q-STEP AZ/AR EAC

Compact Linear Actuators

Q-STEP AZ DRS2

DRLII

Installation

Hollow Rotary Actuators

Q-STEP AZ/AR DGII

Accessories